Water Resources Data for California

Water Year 1976

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

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CA-76-2

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

CALENDAR FOR WATER YEAR 1976

1975

OCTOBER

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1976

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APRIL

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JUNE

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AUGUST

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22	23	24	25	26	27	28
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SEPTEMBER

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

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

V. E. McKelvey, Director

For information on the water program in California write to
District Chief, Water Resources Division
U.S. Geological Survey
855 Oak Grove Avenue
Menlo Park, California 94025

1977

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 by State. General direction for the series is by 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

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6.

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13. Type of Report & Period Covered
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14.

15. Supplementary Notes
Prepared in cooperation with the California Department of Water Resources and with other agencies.

16. Abstracts
Volume 2 of water resources data for the 1976 water year for California consists of records of stage, discharge, and water quality of streams and wells; stage, contents, and water quality in lakes and reservoirs; and water levels in wells. This report contains discharge records for 173 gaging stations; stage and contents for 20 lakes and reservoirs; water quality for 119 stations and 17 wells, water levels for 25 observation wells. Also included are 20 crest-stage partial-record stations and 8 low-flow partial-record stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as special investigations and miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in California.

17. Key Words and Document Analysis. 17a. Descriptors

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17b. Identifiers/Open-Ended Terms

17c. COSATI Field/Group

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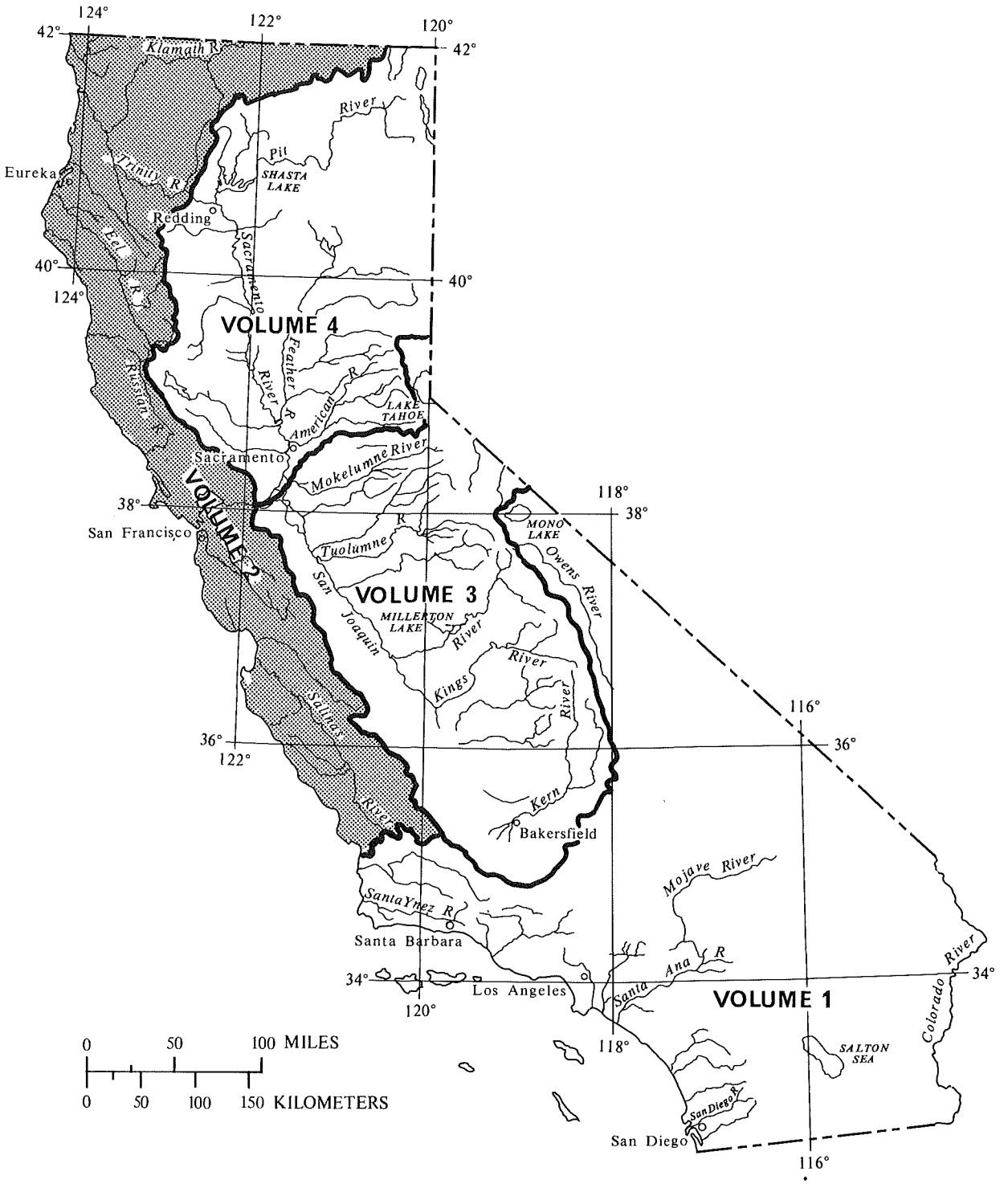

Area covered by volumes in the annual series on water-resources data for California. Area covered by this volume is shaded.

CONTENTS

ILLUSTRATIONS

TABLES

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

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

WATER RESOURCES DATA FOR CALIFORNIA, 1976

Volume 2

INTRODUCTION

Water-resources data for the 1976 water year for California consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; records of water levels in selected observation wells; and selected chemical analyses of ground water. Records for a few pertinent streamflow and water-quality stations in bordering States are also included. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of 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, a contribution to the National Water Data System, were collected by the Geological Survey and cooperating local, State, and Federal agencies in California.

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

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released, either in separate reports or in conjunction with streamflow records. Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published as an official Survey report on a State-boundary basis. These official Survey reports carry an identification number consisting of the two letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report CA-76-2." Water-Data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161.

COOPERATION

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

California Department of Water Resources, R. B. Robie, director.
Alameda County Flood Control and Water Conservation District, P. E. Lanferman, engineer-manager.
Alameda County Water District, M. P. Whitfield, general manager-chief engineer.
Contra Costa County Flood Control and Water Conservation District, J. E. Taylor, deputy chief engineer.
Marin County Department of Public Works, Ray W. Foreaker, Jr., director.
Marin Municipal Water District, J. Dietrich Stroeh, general manager.
Monterey County Flood Control and Water Conservation District, Loran Bunte, Jr., district engineer.
Napa County Flood Control and Water Conservation District, Gene Norriss, chairman.
North Marin County Water District, John Olaf Nelson, manager.
San Benito County Water Conservation and Flood Control District, Ralph G. Towle, district secretary.
San Francisco, City and County Water Department, K. R. Boyd, general manager.
San Luis Obispo County Engineering Department, G. C. Protopapas, county engineer.
San Mateo County Department of Public Works, S. H. Cantwell, Jr., director.
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.

ACKNOWLEDGMENT

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, and S. H. Hoffard, acting 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, respectively. Records for the streamflow stations required under Federal Power Commission licenses were processed under the supervision of J. N. Robles. Lucile Coleman supervised computer processing and assisted in review of data for publication. Manuscript typing and assembly of the report was done by A. L. Davis.

HYDROLOGIC CONDITIONS

The 1976 water year was the third driest year of this century in California. A persistent high-pressure ridge off the California coast effectively displaced the usual winter storm path onto a course generally north of the State.

Runoff during the first quarter ranged from excessive to normal in the northwestern region of California as a result of heavy rains in October and December and near-normal rainfall in November. Contents in major reservoirs in northern California varied from 126 percent of average in October to 110 percent in December. Drought conditions prevailed in all of California during the January - March period, except in the extreme north-coastal area which was on the fringe of storms sweeping eastward through Oregon. At the end of this period, reservoir storage was 91 percent of average. Below-normal rainfall and runoff occurred during the April - June period, with reservoir storage in northern California decreasing to 72 percent of average. During the last quarter of the water year, excessive runoff occurred in August and September as a result of unseasonable storm conditions in August. Reservoir storage was 67 percent of average at the end of the water year.

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, runoff ranged from 80 percent from Salmon River at Somes Bar to 7 percent for Napa River near St. Helena. Average runoff for 11 index stations in this areas was 37 percent of the 30-year median.

The quality of surface water did not change appreciably during the year. Ground-water levels dropped below average because of the increased demand.

DEFINITION OF TERMS

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

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

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

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

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by a well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are the microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Bacteria (continued)

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as the organisms which produce colonies within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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

Fecal streptoccal bacteria are bacteria found also in intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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

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

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

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

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

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

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

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

Bottom material: See Bed material.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Milligrams of carbon per area or volume per unit time [mg C/(m^2·time) for periphyton and macrophytes and mg C/(m^3·time)] for phytoplankton are the units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon 14). The carbon 14 method is of greater sensitivity than the oxygen light- and dark-bottle method, and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [mg O_2/(m^2·time) for periphyton and macrophytes and mg O_2/(m^3·time)] for phytoplankton are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light- and dark-bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

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

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

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

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

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

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

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

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

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

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

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

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

Substrate is the physical surface upon which an organism lives.

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

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

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

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

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

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

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

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

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

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

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

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.

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

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first-rank, second-rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of stations in the front of the report. Each indention represents one rank. This downstream order and system of indention shows which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each surface-water station, water-quality station, and partial-record station has been assigned a station number. These are in the same downstream order as used in this report. In assigning station numbers, no distinction is made between partial-record and continuous-record stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. Gaps are left between the numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete 8-digit number for each station, such as 11264500 which appears just to the 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.

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The 8-digit downstream-order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The well and miscellaneous-site number system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells or other sites within a 1-second grid. See figure 1.

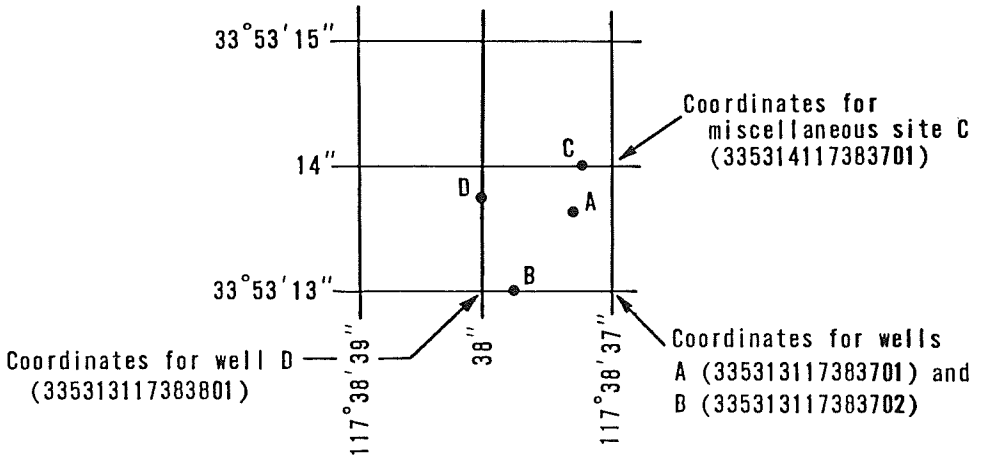

Figure 1.--System for numbering wells and miscellaneous sites (latitude and longitude).

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 5S/10E-22G1 M, the part of the number preceding the slash indicates the township (T.5 S.) and the number between the slash and hyphen indicates the range (R.10 E.); the digits following the hyphen indicate the section (sec.22); the letter following the section number indicates the 40-acre subdivision of the section. Within each 40-acre tract, the wells are numbered serially, as indicated by the final digit. The final letter, separated from the rest of the number by a space, indicates the base line and meridian. Base-line and meridian designations are as follows: H, Humboldt; M, Mount Diablo; S, San Bernardino. See figure 2.

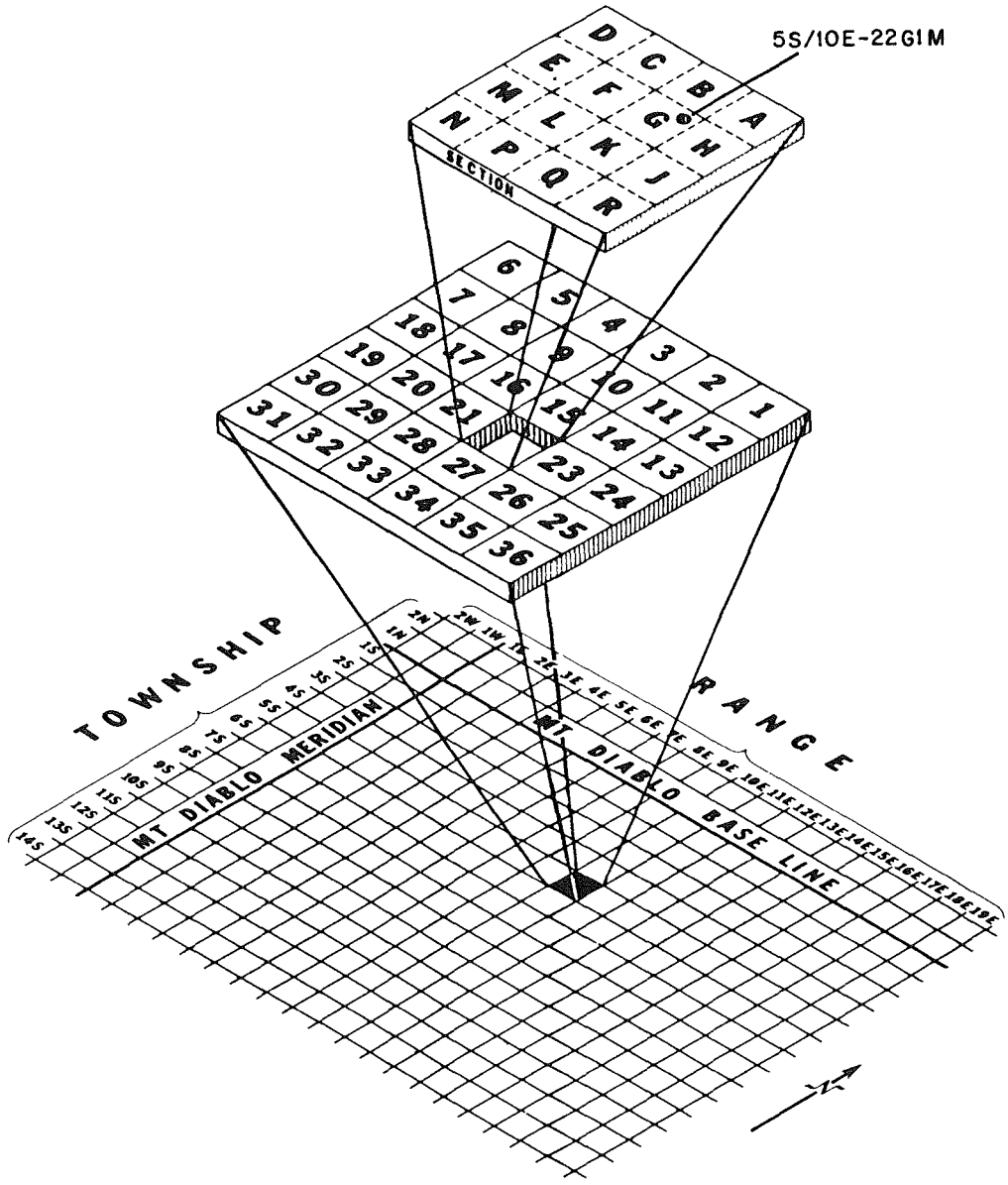

Figure 2.--California well-numbering system.

SPECIAL NETWORKS AND PROGRAMS

Some of the stations for which data are published in this report are included in special networks and programs. These stations are identified by their title, set in parentheses, under the station name.

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped basin. Stations in this network are listed below:

Volume 2:

11475500 Elder Creek near Branscomb, CA

Volume 3:

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

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

Volume 1:

09424190 Colorado River Aqueduct near San Jacinto, CA
09429500 Colorado River above Imperial Dam, AZ-CA
10254970 New River at International Boundary, at Calexico, CA
10261500 Mojave River at lower narrows, near Victorville, CA
10277400 Owens River below Tinemaha Reservoir, near Big Pine, CA
11074000 Santa Ana River below Prado Dam, CA
11103010 Los Angeles River at Willow Street Bridge, at Long Beach, CA

Volume 2:

11152500 Salinas River near Spreckels, CA
11467000 Russian River near Guerneville, CA
11530500 Klamath River near Klamath, CA

Volume 3:

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

Volume 4:

11447650 Sacramento River at Freeport, CA

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

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radiosotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Tritium network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams and canals and records of stage, of lakes and reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from direct readings on a nonrecording gage or from a water-stage recorder that gives a continuous graph of the fluctuations or a tape punched at selected time intervals. Measuremements of discharge are made with a current meter, using the methods adopted by the Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 888, and in the U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

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

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

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

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

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

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

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

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of published records. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATIONS" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published, along with the current records, in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1933 stands for the water year October 1, 1932, to September 30, 1933. If no daily, monthly, or annual figures of discharge are affected by the revision, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum

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

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

Information pertaining to the accuracy of the discharge records, and to conditions that affect the natural flow at the gaging station, is given under "REMARKS"; for reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is also given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. Under "EXTREMES" are given: First, the extremes for the period of record; second, information available outside the period of record; and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with EXTREMES FOR THE CURRENT YEAR; if they are, all independent peaks (including the maximum for the year) above the selected base, with the time of occurrence and corresponding gage heights, are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

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

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

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

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

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

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

Accuracy of field data and computed results

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

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

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

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

Other data available

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

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

Records of discharge collected by agencies other than the Geological Survey

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

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

Surface-water samples for analyses usually are collected at or near gaging stations. The water-quality records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for properties and constituents that are measured on a daily basis (specific conductance, pH, dissolved oxygen, water temperature, sediment discharge, etc.); instrumentation; general remarks; extremes for the period of daily record; and extremes for the current year.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, date of sampling and/or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

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

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

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

Water temperature

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

At stations where continuously recording thermographs are present, the records consist of maximum and minimum temperatures for each day and month. Water temperatures taken at the time of discharge measurements are on file in the district office. They will be used, with all other temperature data, for reports such as the open-file reports by subregion, "Water Temperature of California Streams, 1970."

Sediment

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

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

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

In addition to the records of suspended-sediment discharge, estimates of bedload- and total-sediment discharge are included for some stations. Also included are particle-size distribution analyses of suspended sediment, surface bed material, and bedload material (sediment in transit within 0.25 ft of the bed).

Computations of monthly bedload discharges are based on the relation between instantaneous water discharge and corresponding bedload discharge for the station. Values of bedload discharge used in defining this relation are based on samples obtained by use of the Helley-Smith bedload sampler or by modified Einstein or Meyer-Peter Muller computation procedures. Application of the bedload-transport relation at a station was made on a daily basis or subdivided-day basis.

The Helley-Smith sampler is designed to collect a time-weighted sample of the sediment moving within 0.25 ft of the streambed. Sediment moving in this portion of the flow cannot be sampled with standard suspended-sediment samplers. It is assumed that samples obtained by this sampler represent the bedload discharge when used in coarse-material bedded streams (median diameter coarser than about 4 mm) and that these data can be used in conjunction with theoretical computations to define the bedload-transport relation for a station.

Calibration of the Helley-Smith sampler has not been completed, and a trap efficiency of 1.0 has been assumed applicable to this device. Error sources in the theoretical methods, based on analysis of bed material characteristics, channel geometry, and associated hydraulic factors, are also undefined. In consequence, figures of bedload discharge must be used with caution. They are estimates, at best, and are subject to revision.

Turbidity

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

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

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

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

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

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

Each well is identified by means of (1) a 15-digit number that is based on the grid system of latitude and longitude as shown in figure 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 various conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well insure that measurements at a well are of consistent accuracy and reliability.

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

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

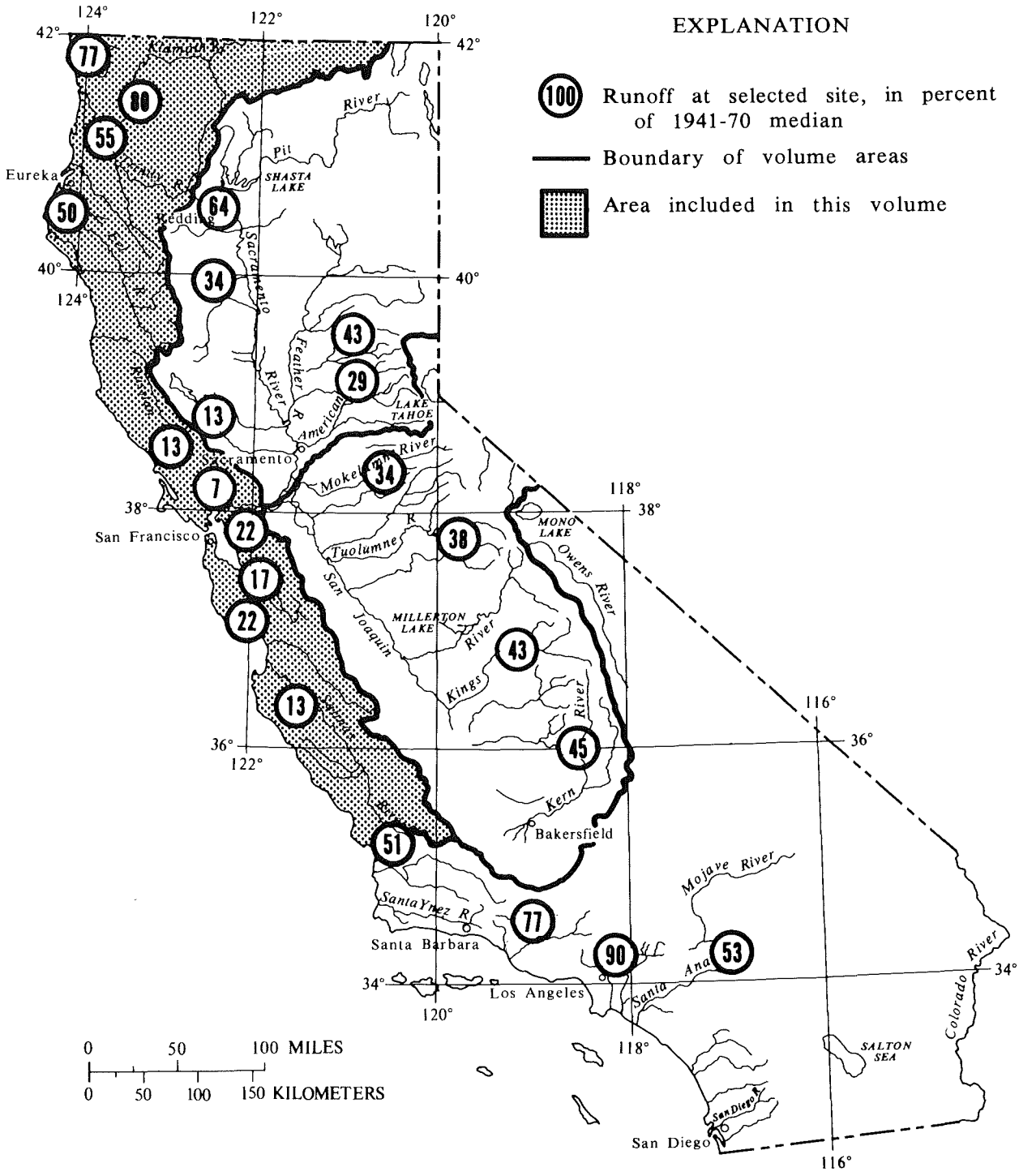

FIGURE 3.--Runoff for the current water year.

PUBLICATIONS OF TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

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

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

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

1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents,* by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages. $.85.

2-D1. *Application of surface geophysics to ground-water investigations,* by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages. $1.90.

2-E1. *Application of borehole geophysics to water-resources investigations,* by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages. $1.75.

3-A1. *General field and office procedures for indirect discharge measurements,* by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages. $0.25.

3-A2. *Measurement of peak discharge by the slope-area method,* by Tate Dalyrmple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages. $0.20.

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

3-A4. *Measurement of peak discharge at width contractions by indirect methods,* By H. F. Matthai: USGS-TWRI Book 3, Chapter A4. 1967. 44 pages. $1.00.

3-A5. *Measurement of peak discharge at dams by indirect methods,* by Harry Hulsing: USGS--TWRI Book 3, Chapter A5, 1967. 29 pages. $0.30.

3-A6. *General procedure for gaging streams,* by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6, 1968. 13 pages. $0.20.

3-A7. *Stage measurements at gaging stations,* by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages. $0.45.

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

3-A11. *Measurement of discharge by moving-boat method,* by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages. $0.40.

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

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

3-B2. *Introduction to ground-water hydraulics--a programed text for self-instruction,* by D. S. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages. $2.50

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

3-C2. *Field methods for measurement of fluvial sediment,* by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2, 1970. 59 pages. $0.70.

3-C3. *Computation of fluvial-sediment discharge,* by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages. $1.15.

4-A1. *Some statistical tools in hydrology,* by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages. $0.30.
4-A2. *Frequency curves,* by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages. $0.20.
4-B1. *Low-flow investigations,* by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages. $0.65.
4-B2. *Storage analyses for water supply,* by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages. $0.75.
4-B3. *Regional analyses of streamflow characteristics,* by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages. $0.75.
4-D1. *Computation of rate and volume of stream depletion by wells,* by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages. $0.65.
5-A1. *Methods for collection and analysis of water samples for dissolved minerals and gases,* by Eugene Brown, M. W. Skougstad, and M. J. Fishman: USGS--TWRI Book 5, Chapter A1. 1970. 160 pages. $2.40.
5-A2. *Determination of minor elements in water by emission spectroscopy,* by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages. $0.80.
5-A3. *Methods for analysis of organic substances in water,* by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages. $0.90.
5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples,* by K. V. Slack, R. C. Averett, P. E. Greeson, and R. G. Lipscomb: USGS--TWRI Book 5, Chapter A4. 1973. 165 pages. $1.95.
5-A5.* *Methods for determination of radioactive substances in water and fluvial sediments,* by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages. $16.00.
5-C1. *Laboratory theory and methods for sediment analyses,* by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages. $0.65.
7-C1. *Finite-difference model for aquifer simultation in two dimensions with results of numerical experiments,* by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages. $2.30.
8-A1. *Methods of measuring water levels in deep wells,* by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968, 23 pages. $0.70.
8-B2. *Calibration and maintenance of vertical-axis type current meters,* by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages. $0.40.

*Looseleaf format. Available only by subscription. Additional supplements will be issued to subscribers at no extra cost.

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

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

DRAINAGE AREA.--13.5 mi^2 (35.0 km^2).

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

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

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

AVERAGE DISCHARGE.--9 years, 1.07 ft^3/s (0.030 m^3/s), 1,920 acre-ft/yr (2.37 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,270 ft^3/s (36.0 m^3/s) Jan. 25, 1969, gage height, 6.83 ft (2.082 m) in gage well, 6.57 ft (2.003 m) from floodmarks, from rating curve extended above 350 ft^3/s (9.91 m^3/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.16 ft^3/s (0.005 m^3/s) Aug. 9, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15 ft^3/s (0.42 m^3/s) Sept. 28, gage height, 4.54 ft (1.384 m), from rating curve extended above 1.9 ft^3/s (0.054 m^3/s) as explained above, no peak above base of 20 ft^3/s (0.6 m^3/s); minimum daily, 0.18 ft^3/s (0.005 m^3/s) July 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.89	1.2	1.2	1.2	1.2	4.1	1.2	1.5	.64	.43	.64	.28
2	.89	1.2	1.2	1.2	1.2	4.9	1.2	1.5	.64	.43	.64	.33
3	.89	1.2	1.2	1.2	1.2	3.3	1.5	1.5	.64	.43	.43	.28
4	.89	1.2	1.2	1.2	1.2	1.8	1.5	1.5	.64	.43	.43	.43
5	.64	.89	1.2	1.2	2.5	1.8	1.5	1.2	.89	.43	.43	.43
6	.64	.89	1.2	1.2	1.8	1.8	1.2	1.2	.89	.28	.28	.43
7	.89	.89	1.2	1.2	1.5	1.8	1.2	1.2	.64	.28	.28	.43
8	.89	.89	1.2	1.2	2.8	1.8	1.5	1.2	.89	.28	.28	.43
9	.89	.89	1.2	1.2	4.1	1.8	1.2	.64	.89	.28	.43	.43
10	1.5	.89	1.2	1.2	2.8	1.8	1.2	.64	.89	.18	.43	1.2
11	1.8	.89	1.2	1.2	1.5	1.8	1.2	.64	.89	.43	.43	2.8
12	.89	.89	1.5	1.2	1.5	1.8	1.2	.43	.89	.43	.43	.89
13	.89	.89	1.2	1.0	1.5	1.2	1.5	.28	.89	.64	.43	.64
14	.89	.89	1.2	1.2	1.5	1.2	.89	.43	.89	.64	.64	.43
15	.89	1.2	1.2	1.2	1.5	1.5	.89	.43	.64	.89	.89	.64
16	.89	1.2	1.2	1.2	1.5	1.5	1.2	.43	.64	.89	.89	.64
17	.89	1.2	1.2	1.2	1.5	1.5	.89	.64	.89	.89	.64	.64
18	.89	1.2	1.2	1.2	1.5	1.5	1.2	.64	.89	.89	.64	.64
19	.89	1.2	1.2	1.2	1.5	1.5	1.2	.43	.89	.89	1.8	.64
20	.89	1.2	1.5	1.2	1.5	1.5	1.2	.64	.89	.64	1.2	.64
21	1.2	1.2	1.5	1.2	1.5	1.5	1.2	.64	.89	.43	.64	.64
22	1.2	.89	1.5	1.2	1.5	1.8	1.2	.64	.89	.43	.64	.64
23	1.2	.89	1.5	1.2	1.5	1.8	1.5	.43	.89	.43	.43	.64
24	1.2	.89	1.5	1.2	1.5	1.5	1.5	.43	.89	.43	.43	.64
25	1.2	.89	1.5	1.2	1.5	1.5	1.5	.64	.64	.43	.43	.64
26	1.2	.89	1.5	1.2	1.5	1.5	1.5	.64	.64	.43	.28	.64
27	1.5	1.2	1.2	1.2	1.5	1.5	1.5	.64	.43	.43	.28	.64
28	1.2	1.5	1.2	1.2	1.5	1.5	1.5	.64	.28	.43	.28	4.9
29	1.2	1.2	1.2	1.2	2.5	1.2	1.5	.89	.28	.43	.28	4.9
30	1.5	1.2	1.2	1.2	---	1.2	1.5	.89	.43	.43	.28	1.2
31	1.2	---	1.2	1.2	---	1.2	---	.64	---	.64	.28	---
TOTAL	32.62	31.65	39.6	37.0	49.8	56.1	38.97	24.19	22.31	15.62	16.51	28.75
MEAN	1.05	1.06	1.28	1.19	1.72	1.81	1.30	.78	.74	.50	.53	.96
MAX	1.8	1.5	1.5	1.2	4.1	4.9	1.5	1.5	.89	.89	1.8	4.9
MIN	.64	.89	1.2	1.0	1.2	1.2	.89	.28	.28	.18	.28	.28
AC-FT	65	63	79	73	99	111	77	48	44	31	33	57

CAL YR 1975 TOTAL 483.74 MEAN 1.33 MAX 5.8 MIN .60 AC-FT 959
WTR YR 1976 TOTAL 393.12 MEAN 1.07 MAX 4.9 MIN .18 AC-FT 780

11141280 LOPEZ CREEK NEAR ARROYO GRANDE, CA

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

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

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

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

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

AVERAGE DISCHARGE.--9 years, 10.2 ft^3/s (0.289 m^3/s), 7,390 acre-ft/yr (9.11 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,830 ft^3/s (80.1 m^3/s) Jan. 25, 1969, gage height, 9.26 ft (2.822 m) in gage well, 10.8 ft (3.29 m) from floodmarks, from rating curve extended above 300 ft^3/s (8.50 m^3/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.56 ft^3/s (0.016 m^3/s) Aug. 15, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 43 ft^3/s (1.22 m^3/s) Mar. 2, gage height, 3.89 ft (1.186 m), no peak above base of 50 ft^3/s (1.4 m^3/s), revised; minimum daily, 0.72 ft^3/s (0.020 m^3/s) July 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	3.1	2.7	2.5	2.5	17	2.7	2.3	1.5	.94	1.1	1.1
2	1.8	2.9	2.7	2.5	2.5	17	2.7	2.2	1.6	.90	1.1	1.1
3	2.0	2.9	2.7	2.5	2.5	15	2.8	2.2	1.9	1.0	1.0	1.1
4	2.3	2.9	2.7	2.7	2.5	7.4	2.9	2.2	2.0	1.0	1.0	1.1
5	2.9	2.9	2.5	2.7	3.0	6.0	2.9	2.2	1.9	.86	.94	1.1
6	3.1	2.7	2.5	2.7	4.6	5.2	2.8	2.3	1.9	.89	.94	1.3
7	2.7	2.7	2.5	2.7	4.3	4.8	2.7	2.3	1.9	.84	1.0	1.0
8	2.7	2.7	2.5	2.7	5.9	4.4	3.5	2.2	1.9	.84	1.0	.94
9	2.9	2.7	2.5	2.7	7.5	4.2	3.3	2.2	2.0	.85	1.0	.94
10	4.5	2.7	2.5	2.7	6.5	3.9	2.9	2.2	2.1	.91	1.1	1.8
11	4.5	2.5	2.5	2.8	5.2	3.9	2.9	2.0	1.9	.95	1.0	3.6
12	3.1	2.5	2.8	2.9	4.8	3.6	2.9	1.8	1.9	1.0	1.0	2.7
13	2.7	2.3	2.7	2.9	4.6	3.6	3.1	1.7	1.9	1.1	.94	2.2
14	2.5	2.3	2.7	3.1	4.5	3.5	3.1	1.5	1.7	1.2	1.1	1.8
15	2.5	2.3	2.7	3.1	4.5	3.4	2.9	1.6	1.6	1.2	2.0	1.8
16	2.3	2.5	2.6	3.1	4.3	3.4	3.0	1.7	1.6	1.3	1.8	1.7
17	2.3	2.5	2.9	3.1	4.2	3.3	3.1	1.7	1.7	1.1	1.5	1.7
18	2.3	2.5	2.9	3.1	4.0	3.1	3.1	1.6	1.7	1.1	1.7	1.7
19	2.5	2.3	2.7	2.9	3.6	3.1	2.9	1.7	1.6	1.1	3.1	1.7
20	2.5	2.3	2.7	2.7	3.6	3.1	2.8	1.9	1.6	.95	3.1	1.8
21	2.5	2.3	2.7	2.7	3.4	3.1	2.5	2.0	1.6	.81	2.5	1.8
22	2.5	2.3	2.7	2.7	3.4	3.1	2.5	2.0	1.5	.83	2.2	1.5
23	2.5	2.3	2.7	2.7	3.2	3.0	2.5	1.8	1.3	.90	2.2	1.5
24	2.5	2.2	2.7	2.5	3.1	2.9	2.5	1.8	1.2	.86	2.0	1.5
25	2.5	2.3	2.6	2.5	3.1	2.9	2.4	1.8	1.2	.83	1.8	1.5
26	2.7	2.3	2.5	2.5	3.1	2.8	2.4	1.6	1.2	.80	1.4	1.7
27	2.7	2.3	2.5	2.5	3.2	2.7	2.5	1.6	.94	.72	1.4	1.7
28	2.7	2.5	2.5	2.5	3.4	2.7	2.5	1.5	.84	.77	1.4	3.9
29	2.7	2.5	2.5	2.5	4.5	2.7	2.5	1.4	.82	.85	1.4	6.3
30	3.1	2.5	2.5	2.5	---	2.7	2.4	1.5	.86	.91	1.3	3.9
31	3.4	---	2.5	2.5	---	2.7	---	1.6	---	1.0	1.0	---
TOTAL	84.2	75.7	81.4	84.2	115.5	150.2	83.7	58.1	47.36	29.31	46.02	57.48
MEAN	2.72	2.52	2.63	2.72	3.98	4.85	2.79	1.87	1.58	.95	1.48	1.92
MAX	4.5	3.1	2.9	3.1	7.5	17	3.5	2.3	2.1	1.3	3.1	6.3
MIN	1.8	2.2	2.5	2.5	2.5	2.7	2.4	1.4	.82	.72	.94	.94
AC-FT	167	150	161	167	229	298	166	115	94	58	91	114

CAL YR 1975 TOTAL 2208.30 MEAN 6.05 MAX 80 MIN 1.6 AC-FT 4380
WTR YR 1976 TOTAL 913.17 MEAN 2.50 MAX 17 MIN .72 AC-FT 1810

11141400 TAR SPRING CREEK NEAR ARROYO GRANDE, CA

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

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

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

GAGE.--Water-stage recorder 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.

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

AVERAGE DISCHARGE.--9 years, 2.84 ft^3/s (0.080 m^3/s), 2,060 acre-ft/yr (2.54 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5.3 ft^3/s (0.15 m^3/s) Mar. 2, gage height, 4.04 ft (1.231 m), no peak above base of 20 ft^3/s (0.6 m^3/s); minimum daily, 0.06 ft^3/s (0.002 m^3/s) Aug. 8-14, 20-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.71	.15	.57	.64	.30	1.1	.89	.66	.57	.35	.19	.12
2	.80	.19	.45	.71	.26	1.9	.51	.66	.57	.35	.15	.12
3	.71	.22	.57	.57	.22	1.6	.35	.66	.22	.26	.12	.12
4	.51	.22	.57	.71	.19	1.1	.51	.66	.22	.19	.09	.12
5	.51	.22	.64	.80	.26	.89	.40	.22	.35	.09	.12	.12
6	.51	.22	.64	.80	.40	.89	.51	.22	.22	.40	.09	.15
7	.51	.19	.57	.71	.51	.80	.51	.30	.30	.30	.09	.12
8	.45	.19	.57	.71	1.3	.80	.64	.45	.35	.22	.06	.15
9	.51	.30	.57	.64	1.8	.80	.57	.26	.26	.26	.06	.19
10	.40	.22	.57	.64	1.2	.80	.57	.22	.26	.26	.06	.22
11	.45	.19	.57	.71	.89	.98	.57	.22	.40	.19	.06	.22
12	.35	.26	.57	.80	.89	.80	.57	.22	.15	.26	.06	.19
13	.30	.40	.57	.71	.80	.80	.64	.22	.22	.19	.06	.15
14	.26	.26	.57	.71	.80	.89	.40	.19	.12	.19	.06	.15
15	.26	.22	.57	.64	.80	.89	.41	.19	.12	.22	.09	.15
16	.26	.22	.57	.71	.80	.80	.53	.45	.22	.15	.12	.15
17	.26	.30	.71	.45	.80	.71	.40	.30	.26	.30	.09	.15
18	.30	.35	.71	.51	.80	.89	.53	.22	.45	.19	.09	.15
19	.40	.30	.57	.51	.80	.89	.53	.19	.45	.15	.09	.09
20	.30	.40	.64	.45	.80	.64	.53	.15	.22	.19	.06	.15
21	.30	.45	.64	.45	.80	.64	.53	.15	.30	.26	.06	.12
22	.35	.51	.80	.45	.80	.57	.53	.15	.40	.35	.06	.12
23	.30	.51	.71	.35	.89	.57	.66	.26	.12	.30	.06	.12
24	.30	.51	.89	.30	.89	.51	.66	.22	.22	.15	.09	.12
25	.26	.35	.64	.19	.89	.45	.66	.19	.22	.19	.12	.12
26	.35	.40	.57	.19	.80	.40	.66	.25	.26	.19	.12	.12
27	.26	.51	.30	.26	.80	.40	.66	.36	.35	.22	.09	.12
28	.51	.64	.45	.26	.80	.57	.66	.50	.35	.22	.12	.15
29	.45	.71	.57	.30	.89	.64	.66	.78	.30	.30	.15	.19
30	.26	.51	.64	.26	---	.71	.66	.78	.12	.30	.15	.12
31	.22	---	.64	.26	---	1.1	---	.57	---	.22	.15	---
TOTAL	12.32	10.12	18.62	16.40	22.18	25.53	16.91	10.87	8.57	7.41	2.98	4.28
MEAN	.40	.34	.60	.53	.76	.82	.56	.35	.29	.24	.096	.14
MAX	.80	.71	.89	.80	1.8	1.9	.89	.78	.57	.40	.19	.22
MIN	.22	.15	.30	.19	.19	.40	.35	.15	.12	.09	.06	.09
AC-FT	24	20	37	33	44	51	34	22	17	15	5.9	8.5
(†)	1.29	.05	.05	0	4.73	.91	.49	0	0	.13	.74	3.15

CAL YR 1975 TOTAL 398.33 MEAN 1.09 MAX 20 MIN .08 AC-FT 790
WTR YR 1976 TOTAL 156.19 MEAN .43 MAX 1.9 MIN .06 AC-FT 310

† Precipitation, in inches.

11141500 ARROYO GRANDE AT ARROYO GRANDE, CA

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

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

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

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

GAGE.--Water-stage recorder and broad-crested weir. Datum of gage is 97.77 ft (29.800 m) above mean sea level. Prior to July 10, 1947, at datum 0.50 ft (0.152 m) higher.

REMARKS.--Records good. Flow regulated by Lopez Dam 7.8 mi (12.6 km) upstream since 1968, usable capacity, 47,800 acre-ft (58.9 hm^3). Many small and intermittent diversions by pumping from stream for irrigation of about 4,000 acres (16.2 km^2) above station.

AVERAGE DISCHARGE.--29 years (water years 1940-68), 19.4 ft^3/s (0.549 m^3/s), 14,060 acre-ft/yr (17.3 hm^3/yr); 8 years (water years 1969-76), 12.8 ft^3/s (0.363 m^3/s), 9,270 acre-ft/yr (11.4 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25 ft^3/s (0.71 m^3/s) Sept. 28, gage height, 2.06 ft (0.628 m); minimum daily, 0.29 ft^3/s (0.008 m^3/s) July 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	6.1	4.8	4.0	3.0	14	2.0	1.9	1.9	.79	5.7	2.1
2	4.4	6.1	5.3	4.2	2.0	11	1.1	1.8	1.2	.29	4.6	2.8
3	3.2	6.4	5.0	3.8	1.5	9.9	1.4	2.6	2.6	.63	4.5	2.8
4	2.3	6.1	5.3	4.0	2.4	8.5	2.7	2.3	.56	1.3	3.1	2.7
5	2.6	5.6	4.8	4.2	4.4	8.2	3.2	1.1	1.3	1.7	3.5	3.2
6	3.6	5.0	4.6	4.2	5.0	8.5	2.7	2.6	1.7	.71	3.8	4.2
7	4.0	4.0	4.4	3.0	4.8	8.5	.79	2.6	2.9	2.4	3.9	2.9
8	3.2	4.4	4.6	2.6	9.2	8.2	4.0	1.8	2.2	1.5	3.3	4.8
9	3.6	4.4	4.0	3.2	10	7.0	3.8	2.7	2.6	2.0	3.8	2.4
10	5.6	4.4	3.8	3.0	7.6	5.8	4.0	2.7	3.6	2.1	5.4	4.4
11	7.0	3.6	4.0	1.9	7.0	5.8	4.6	1.9	3.2	2.4	3.8	7.3
12	6.4	4.2	4.6	1.3	7.0	5.3	4.0	.63	1.8	5.3	3.6	6.4
13	6.4	4.4	4.2	2.7	6.7	4.8	4.2	.50	2.4	4.1	3.6	6.1
14	5.8	4.0	4.0	2.9	7.0	5.3	4.0	.79	3.0	4.5	4.7	6.1
15	5.8	4.6	4.2	2.9	6.7	5.3	3.4	2.0	3.6	4.0	6.5	5.8
16	6.1	5.0	2.9	2.6	6.7	4.6	4.0	3.0	2.6	4.8	5.8	5.8
17	6.7	4.4	3.6	2.3	7.0	4.8	3.8	4.4	2.4	4.0	5.7	5.8
18	6.4	4.4	4.2	1.9	6.7	5.3	3.8	4.0	3.2	5.0	4.0	5.0
19	5.8	4.0	4.4	2.2	7.0	5.0	4.2	2.9	4.4	3.6	7.3	5.0
20	6.1	4.6	4.2	2.0	6.7	3.8	2.6	2.9	2.7	4.0	8.1	5.8
21	6.4	4.2	4.6	1.1	6.4	3.4	1.7	1.7	4.0	3.8	7.5	5.8
22	6.4	4.6	4.6	1.1	6.1	3.0	1.8	1.4	2.3	5.0	7.2	5.6
23	6.4	5.0	4.6	.87	6.1	2.2	1.2	2.7	1.8	3.7	6.7	5.0
24	4.8	4.8	3.6	1.2	6.1	2.4	.79	3.2	.79	4.2	6.8	4.4
25	5.0	4.2	4.0	1.1	5.8	1.8	2.4	2.6	1.1	5.4	6.4	3.8
26	5.8	4.2	4.4	1.1	5.3	2.3	2.4	3.8	.56	4.8	4.0	5.0
27	6.1	4.8	4.0	1.4	5.3	1.4	3.0	3.6	.71	5.4	2.0	6.4
28	5.8	5.0	3.8	1.4	4.6	1.3	2.6	3.0	1.3	5.7	3.0	7.2
29	5.6	5.0	4.0	1.4	5.6	1.9	2.4	3.2	1.1	5.5	4.3	8.5
30	6.1	4.8	3.8	2.6	---	1.1	2.3	4.0	.71	5.3	4.6	6.4
31	6.7	---	4.6	3.2	---	1.1	---	3.2	---	6.1	1.9	---
TOTAL	164.7	142.3	132.9	75.37	169.7	161.5	84.88	77.52	64.23	110.02	149.1	149.5
MEAN	5.31	4.74	4.29	2.43	5.85	5.21	2.83	2.50	2.14	3.55	4.81	4.98
MAX	7.0	6.4	5.3	4.2	10	14	4.6	4.4	4.4	6.1	8.1	8.5
MIN	2.3	3.6	2.9	.87	1.5	1.1	.79	.50	.56	.29	1.9	2.1
AC-FT	327	282	264	149	337	320	168	154	127	218	296	297

CAL YR 1975 TOTAL 1908.53 MEAN 5.23 MAX 26 MIN .56 AC-FT 3790
WTR YR 1976 TOTAL 1481.72 MEAN 4.05 MAX 14 MIN .29 AC-FT 2940

11141600 LOS BERROS CREEK NEAR NIPOMO, CA

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

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

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

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

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

AVERAGE DISCHARGE.--8 years, 2.04 ft^3/s (0.058 m^3/s), 1,480 acre-ft/yr (1.82 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2.1 ft^3/s (0.059 m^3/s) Mar. 2, gage height, 1.46 ft (0.445 m), no peak above base of 7.0 ft^3/s (0.2 m^3/s); minimum daily, 0.07 ft^3/s (0.002 m^3/s) Sept. 7, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.41	.59	.36	.27	.36	.90	.59	.59	.31	.31	.21	.08
2	.46	.59	.36	.24	.36	1.2	.59	.59	.31	.31	.18	.08
3	.36	.59	.36	.27	.36	1.2	.59	.59	.31	.36	.12	.08
4	.31	.59	.41	.27	.36	.90	.59	.59	.31	.36	.10	.08
5	.31	.59	.46	.27	.32	.82	.66	.54	.31	.41	.12	.08
6	.31	.46	.41	.31	.31	.82	.66	.52	.31	.41	.12	.08
7	.36	.41	.41	.31	.31	.82	.66	.52	.31	.46	.12	.07
8	.36	.41	.41	.27	.46	.82	.74	.52	.31	.52	.12	.08
9	.36	.41	.27	.27	.59	.74	.74	.46	.31	.27	.12	.07
10	.36	.41	.21	.27	.46	.74	.74	.46	.31	.12	.12	.10
11	.46	.41	.21	.27	.36	.74	.74	.46	.36	.12	.12	.15
12	.41	.41	.24	.27	.46	.74	.74	.46	.31	.12	.15	.12
13	.36	.36	.24	.23	.46	.66	.74	.46	.31	.12	.15	.12
14	.36	.41	.24	.24	.41	.74	.74	.46	.31	.12	.12	.12
15	.36	.41	.21	.24	.41	.82	.66	.41	.31	.15	.15	.12
16	.36	.41	.21	.24	.41	.82	.66	.41	.36	.18	.15	.12
17	.41	.41	.21	.24	.41	.82	.66	.41	.41	.18	.15	.15
18	.41	.41	.21	.27	.41	.82	.66	.41	.41	.18	.15	.15
19	.41	.41	.27	.27	.46	.82	.66	.41	.41	.18	.15	.15
20	.41	.41	.24	.27	.46	.82	.66	.36	.41	.18	.15	.18
21	.46	.41	.24	.27	.46	.66	.66	.36	.46	.18	.15	.18
22	.46	.41	.24	.27	.46	.66	.66	.36	.46	.21	.15	.18
23	.52	.36	.24	.27	.46	.66	.66	.36	.41	.21	.12	.15
24	.52	.31	.24	.27	.52	.66	.66	.36	.36	.21	.12	.18
25	.52	.36	.24	.31	.52	.66	.66	.31	.31	.21	.10	.18
26	.52	.36	.27	.31	.52	.66	.66	.31	.27	.18	.10	.18
27	.52	.36	.24	.31	.52	.66	.66	.31	.24	.18	.10	.18
28	.52	.36	.24	.31	.59	.66	.66	.27	.27	.21	.10	.24
29	.52	.36	.24	.31	.74	.59	.59	.31	.27	.21	.08	.24
30	.59	.36	.24	.31	---	.59	.59	.36	.27	.21	.08	.21
31	.59	---	.27	.31	---	.59	---	.31	---	.21	.08	---
TOTAL	13.29	12.75	8.64	8.54	12.93	23.81	19.94	13.25	10.02	7.28	3.95	4.10
MEAN	.43	.43	.28	.28	.45	.77	.66	.43	.33	.23	.13	.14
MAX	.59	.59	.46	.31	.74	1.2	.74	.59	.46	.52	.21	.24
MIN	.31	.31	.21	.23	.31	.59	.59	.27	.24	.12	.08	.07
AC-FT	26	25	17	17	26	47	40	26	20	14	7.8	8.1

CAL YR 1975 TOTAL 343.79 MEAN .94 MAX 10 MIN .21 AC-FT 682
WTR YR 1976 TOTAL 138.50 MEAN .38 MAX 1.2 MIN .07 AC-FT 275

11142080 MORRO CREEK AT MORRO BAY, CA

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

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

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

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

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

AVERAGE DISCHARGE.--6 years, 8.06 ft^3/s (0.228 m^3/s), 5,840 acre-ft/yr (7.20 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21 ft^3/s (0.59 m^3/s) Sept. 29, gage height, 3.15 ft (0.960 m), no peak above base of 60 ft^3/s (1.7 m^3/s); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.45	.21	0	0	1.7	.18					0
2	0	.40	.12	0	0	1.9	.14					0
3	0	.45	.10	0	0	2.6	.18					0
4	0	.45	.14	0	0	1.7	.35					0
5	0	.45	.18	0	0	1.4	.40					0
6	0	.40	.12	0	.33	1.2	.50					0
7	0	.24	.12	0	.56	1.1	.45					0
8	0	.31	.01	0	2.8	1.1	.69					0
9	0	.27	0	0	2.8	1.1	.69					0
10	0	.75	0	.07	1.5	1.0	.69					0
11	.53	.40	0	.07	1.0	1.0	.77					0
12	.27	.16	0	.07	.94	1.0	.77					0
13	.16	.16	0	.01	.85	.94	.56					0
14	.21	.14	0	0	.85	.85	.45					0
15	.14	.14	0	0	.77	.85	.31					0
16	.12	.10	0	0	.77	.77	.16					0
17	.16	.05	0	0	.77	.77	.06					0
18	.24	.14	0	0	.69	.77	.03					0
19	.21	.16	0	0	.77	.69	.01					0
20	.14	.24	0	0	.69	.40	.14					0
21	.24	.24	0	0	.69	.35	.06					0
22	.27	.18	0	0	.62	.45	.02					0
23	.18	.16	0	0	.69	.50	.01					0
24	.14	.10	0	0	.62	.56	0					0
25	.10	.07	0	0	.62	.45	0					0
26	.35	.08	0	0	.62	.40	0					0
27	.50	.16	0	0	.62	.35	0					0
28	.31	.27	0	0	.50	.18	0					0
29	.27	.21	0	0	.77	.35	0					1.7
30	.68	.21	0	0	---	.24	0					.10
31	.62	---	0	0	---	.08	---		---			---
TOTAL	5.84	7.54	1.00	.22	21.84	26.75	7.62	0	0	0	0	1.80
MEAN	.19	.25	.032	.007	.75	.86	.25	0	0	0	0	.060
MAX	.68	.75	.21	.07	2.8	2.6	.77	0	0	0	0	1.7
MIN	0	.05	0	0	0	.08	0	0	0	0	0	0
AC-FT	12	15	2.0	.4	43	53	15	0	0	0	0	3.6

CAL YR 1975 TOTAL 1506.90 MEAN 4.13 MAX 61 MIN 0 AC-FT 2990
WTR YR 1976 TOTAL 72.61 MEAN .20 MAX 2.8 MIN 0 AC-FT 144

11142100 TORO CREEK NEAR MORRO BAY, CA

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

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

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

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

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

AVERAGE DISCHARGE.--6 years, 5.38 ft^3/s (0.152 m^3/s), 3,900 acre-ft/yr (4.81 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11 ft^3/s (0.31 m^3/s) Mar. 2, gage height, 1.44 ft (0.439 m), no peak above base of 40 ft^3/s (1.1 m^3/s); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	.42	.34	.39	.25	2.0	.82	.09	.03			0
2	.12	.42	.34	.39	.25	3.6	.82	.09	.01			0
3	.13	.53	.34	.39	.25	2.7	.82	.16	0			0
4	.09	.57	.34	.48	.28	1.8	.82	.23	0			0
5	.06	.57	.37	.44	.53	1.5	.82	.09	0			0
6	.07	.54	.39	.44	.70	1.3	.82	.10	0			0
7	.09	.46	.37	.44	.82	1.2	.69	.07	0			0
8	.06	.44	.34	.44	1.8	1.2	.74	.06	0			0
9	.05	.41	.34	.44	2.3	1.2	.70	.05	0			0
10	.18	.40	.36	.44	1.6	1.2	.64	.04	0			0
11	.32	.37	.39	.44	1.3	1.2	.74	.05	0			0
12	.27	.29	.43	.44	1.2	1.1	.72	.05	0			0
13	.25	.29	.44	.41	1.2	1.0	.72	.06	0			0
14	.21	.33	.44	.34	1.0	1.0	.68	.09	0			0
15	.18	.34	.44	.34	1.0	1.0	.57	.08	0			0
16	.20	.38	.44	.34	1.0	.90	.55	.12	0			0
17	.26	.38	.44	.34	1.0	.82	.46	.15	0			0
18	.28	.34	.39	.34	.93	.82	.47	.14	0			0
19	.21	.34	.39	.34	.93	.80	.42	.09	0			0
20	.22	.34	.43	.41	.93	.73	.39	.08	0			0
21	.31	.37	.44	.44	.93	.73	.23	.11	0			0
22	.31	.34	.44	.39	.93	.82	.13	.11	0			0
23	.27	.31	.44	.37	.93	.82	.08	.11	0			0
24	.23	.25	.44	.33	.82	.82	.07	.13	0			0
25	.21	.25	.44	.34	.82	.82	.06	.10	0			0
26	.32	.25	.44	.31	.82	.82	.03	.06	0			0
27	.42	.29	.44	.29	.73	.82	.03	.05	0			0
28	.32	.29	.43	.29	.73	.82	.12	.07	0			0
29	.32	.33	.39	.29	.82	.82	.20	.09	0			.01
30	.49	.34	.39	.25	---	.82	.10	.09	0			0
31	.48	---	.39	.25	---	.82	---	.06	---			---
TOTAL	7.06	11.18	12.44	11.58	26.80	36.00	14.46	2.87	.04	0	0	.01
MEAN	.23	.37	.40	.37	.92	1.16	.48	.093	.001	0	0	.0003
MAX	.49	.57	.44	.48	2.3	3.6	.82	.23	.03	0	0	.01
MIN	.05	.25	.34	.25	.25	.73	.03	.04	0	0	0	0
AC-FT	14	22	25	23	53	71	29	5.7	.08	0	0	.02

CAL YR 1975 TOTAL 868.20 MEAN 2.38 MAX 37 MIN .05 AC-FT 1720
WTR YR 1976 TOTAL 122.44 MEAN .33 MAX 3.6 MIN 0 AC-FT 243

11142500 ARROYO DE LA CRUZ NEAR SAN SIMEON, CA

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

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

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

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

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

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

AVERAGE DISCHARGE.--26 years, 54.0 ft^3/s (1.529 m^3/s), 39,120 acre-ft (48.2 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 360 ft^3/s (10.2 m^3/s) Mar. 2, gage height, 2.91 ft (0.887 m), no peak above base of 2,500 ft^3/s (71 m^3/s); no flow for long periods.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						69						
2						78						
3						111						
4						19						
5						9.2						
6						5.6						
7						4.1						
8						3.1						
9						2.5						
10						2.1						
11						1.8						
12						1.7						
13						1.6						
14						1.5						
15						1.5						
16						1.4						
17						1.3						
18						1.2						
19						1.1						
20						1.0						
21						.90						
22						.80						
23						.70						
24						.60						
25						.50						
26						.40						
27						.30						
28						.20						
29						.10						
30					---	.05						
31		---			---	.01	---		---			---
TOTAL	0	0	0	0	0	322.26	0	0	0	0	0	0
MEAN	0	0	0	0	0	10.4	0	0	0	0	0	0
MAX	0	0	0	0	0	111	0	0	0	0	0	0
MIN	0	0	0	0	0	.01	0	0	0	0	0	0
AC-FT	0	0	0	0	0	639	0	0	0	0	0	0

CAL YR 1975 TOTAL 12087.13 MEAN 33.1 MAX 1090 MIN 0 AC-FT 23970
WTR YR 1976 TOTAL 322.26 MEAN .88 MAX 111 MIN 0 AC-FT 639

11143000 BIG SUR RIVER NEAR BIG SUR, CA

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

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

WATER-DISCHARGE RECORDS

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

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

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

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

AVERAGE DISCHARGE.--26 years, 92.7 ft^3/s (2.625 m^3/s), 67,160 acre-ft/yr (82.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,680 ft^3/s (161 m^3/s) Apr. 2, 1958, gage height, 11.56 ft (3.523 m); minimum, 3.7 ft^3/s (0.10 m^3/s) Oct. 7, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 496 ft^3/s (14.0 m^3/s) Feb. 29, gage height, 4.99 ft (1.521 m), no peak above base of 700 ft^3/s (20 m^3/s); minimum daily, 5.1 ft^3/s (0.14 m^3/s) July 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	31	22	18	14	100	17	21	13	7.9	5.4	7.2
2	19	24	22	18	14	72	16	20	13	7.9	6.2	6.9
3	18	24	22	18	14	55	17	19	13	7.4	6.9	7.2
4	18	23	21	17	14	43	18	19	12	7.5	6.6	7.2
5	18	21	21	17	18	36	18	19	12	7.0	6.2	7.2
6	18	21	21	17	18	34	18	19	12	6.7	6.0	7.6
7	19	20	21	17	18	33	21	19	12	6.7	6.0	7.2
8	19	20	21	16	23	32	47	18	12	6.8	5.7	7.6
9	21	20	21	18	31	31	39	17	13	6.9	5.4	7.6
10	91	23	21	17	27	29	47	17	14	7.5	5.4	7.2
11	49	21	20	17	20	28	60	16	14	6.6	5.7	7.9
12	30	21	24	17	18	27	47	15	13	6.6	6.0	7.9
13	25	20	22	16	17	25	42	14	13	6.3	6.3	7.9
14	23	19	22	16	17	23	38	14	12	6.9	6.0	7.6
15	21	19	21	16	17	22	35	14	12	6.9	7.9	7.2
16	21	19	21	16	17	21	35	14	11	6.9	8.9	7.2
17	21	19	21	16	17	20	34	14	12	6.9	7.9	8.0
18	19	21	20	16	16	20	31	14	11	7.1	8.9	7.9
19	19	21	20	15	17	19	30	14	11	6.9	14	7.6
20	19	21	20	15	16	19	29	14	11	6.9	14	7.6
21	19	21	20	15	15	18	27	14	11	6.3	9.6	7.2
22	19	21	21	15	15	17	26	14	11	6.0	8.6	7.2
23	19	21	20	15	14	17	26	13	11	6.0	8.9	6.9
24	19	21	19	15	14	16	24	13	11	6.3	7.9	6.6
25	19	20	19	15	14	17	23	13	10	6.0	7.6	6.3
26	33	19	19	15	14	16	23	13	9.6	5.8	7.6	6.6
27	33	21	18	14	14	16	22	13	9.6	5.7	7.2	7.9
28	25	24	18	14	14	16	23	12	8.8	6.0	7.2	16
29	24	23	18	14	92	16	23	12	8.6	5.8	6.6	12
30	61	22	18	14	---	16	22	12	8.2	5.1	7.2	8.9
31	41	---	18	14	---	16	---	13	---	5.4	6.6	---
TOTAL	819	641	632	493	569	870	878	473	344.8	204.7	230.4	235.3
MEAN	26.4	21.4	20.4	15.9	19.6	28.1	29.3	15.3	11.5	6.60	7.43	7.84
MAX	91	31	24	18	92	100	60	21	14	7.9	14	16
MIN	18	19	18	14	14	16	16	12	8.2	5.1	5.4	6.3
AC-FT	1620	1270	1250	978	1130	1730	1740	938	684	406	457	467

CAL YR 1975	TOTAL	37641.0	MEAN	103	MAX	1560	MIN	18	AC-FT 74660
WTR YR 1976	TOTAL	6390.2	MEAN	17.5	MAX	100	MIN	5.1	AC-FT 12670

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

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1965 to current year.
INSTRUMENTATION.--Temperature recorder since October 1965.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1966-67, 1969-76), 21.0°C Aug. 9-11, 1971, July 8, 9, 1976; minimum (water years 1966, 1968-76), 5.0°C Dec. 15, 1967, Dec. 25, 26, 1974, Jan. 30, 1975, Jan. 28, 1976.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 21.0°C July 8, 9; minimum, 5.0°C Jan. 28.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

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

11143200 CARMEL RIVER AT ROBLES DEL RIO, CA

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

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

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

REVISED RECORDS.--WSP 1715: Drainage area.

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

REMARKS.--Records good. Flow regulated by Los Padres Reservoir 11 mi (18 km) upstream, capacity, 3,000 acre-ft (3.70 hm^3) and San Clemente Reservoir 4 mi (6 km) upstream, capacity, 1,600 acre-ft (1.97 hm^3), revised. Diversion from San Clemente Reservoir for municipal supply amounted to 7,700 acre-ft (9.49 hm^3) for the current year.

AVERAGE DISCHARGE (unadjusted).--19 years, 75.0 ft^3/s (2.124 m^3/s), 54,340 acre-ft/yr (67.0 hm^3/yr).

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

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 81 ft^3/s (2.29 m^3/s) Mar. 4, gage height, 4.34 ft (1.323 m); no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.62	.91	1.6	1.7	1.0	5.1	1.0	.59				
2	.61	.80	1.6	1.7	.91	15	1.0	.62				
3	.46	.71	1.4	1.7	.91	19	1.0	.65				
4	.40	.62	1.4	1.7	1.0	29	1.3	.67				
5	.29	.71	1.4	1.7	1.7	4.9	1.2	.92				
6	.24	.91	1.3	1.7	1.3	2.6	1.0	1.1				
7	.34	.80	1.3	1.7	1.2	2.1	1.0	.64				
8	.40	.91	1.3	1.7	1.7	1.9	1.7	.50				
9	.53	.91	1.3	1.7	2.1	1.7	1.3	.38				
10	.80	1.2	1.3	1.7	1.4	1.7	1.6	.32				
11	1.0	1.2	1.3	1.6	1.3	1.6	1.7	.30				
12	.91	1.2	1.6	1.4	1.2	1.6	1.6	.27				
13	.80	1.0	1.7	1.4	1.2	1.4	1.7	.21				
14	.80	.91	1.6	1.6	1.6	1.3	1.2	.18				
15	.62	.91	1.4	1.6	1.6	1.3	1.4	.14				
16	.62	1.3	1.6	1.6	1.4	1.3	1.2	.11				
17	.53	1.9	1.6	1.4	1.4	1.3	1.2	.07				
18	.71	2.2	1.4	1.4	1.3	1.3	1.2	.05				
19	.71	2.6	1.4	1.3	1.6	1.4	1.1	.03				
20	.53	2.6	1.7	1.3	1.4	1.2	.94	.02				
21	.53	2.8	1.6	1.3	1.3	1.2	.89	.01				
22	.62	2.8	1.7	1.3	1.2	1.0	.91	0				
23	.62	2.1	1.9	1.2	1.2	1.0	.94	0				
24	.62	1.4	1.7	1.2	1.2	.91	.84	0				
25	.62	1.4	1.6	1.2	1.0	.91	.77	0				
26	.80	1.4	1.6	1.2	1.2	1.0	.78	0				
27	1.0	1.7	1.6	1.2	1.2	1.0	.77	0				
28	.91	1.9	1.4	1.2	1.2	1.2	.70	0				
29	.91	1.6	1.4	1.2	2.6	1.2	.78	0				
30	2.4	1.6	1.4	1.0	---	1.0	.70	0				
31	1.3	---	1.6	1.0	---	1.0	---	0	---			---
TOTAL	22.25	43.00	46.7	44.6	39.32	108.12	33.42	7.78	0	0	0	0
MEAN	.72	1.43	1.51	1.44	1.36	3.49	1.11	.25	0	0	0	0
MAX	2.4	2.8	1.9	1.7	2.6	29	1.7	1.1	0	0	0	0
MIN	.24	.62	1.3	1.0	.91	.91	.70	0	0	0	0	0
AC-FT	44	85	93	88	78	214	66	15	0	0	0	0

CAL YR 1975 TOTAL 40794.58 MEAN 112 MAX 2890 MIN .24 AC-FT 80920
WTR YR 1976 TOTAL 345.19 MEAN .94 MAX 29 MIN 0 AC-FT 685

11143250 CARMEL RIVER NEAR CARMEL, CA

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

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

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

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

REMARKS.--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^3) and San Clemente Reservoir, capacity, 1,600 acre-ft (1.97 hm^3), revised. Diversion from San Clemente Reservoir for municipal supply amounted to 7,700 acre-ft (9.49 hm^3) for the current year.

AVERAGE DISCHARGE (unadjusted).--14 years, 95.8 ft^3/s (2.713 m^3/s), 69,410 acre-ft/yr (85.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,620 ft^3/s (244 m^3/s) Jan. 26, 1969, gage height, 17.30 ft (5.273 m) in gage well, 17.4 ft (5.30 m) from floodmarks; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4.1 ft^3/s (0.12 m^3/s) Mar. 2, gage height, 2.62 ft (0.799 m); no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	.39	.47	.58	.20	.88	.29	.19				
2	.48	.42	.47	.58	.20	1.7	.31	.16				
3	.25	.44	.47	.58	.44	1.0	.29	.15				
4	.23	.41	.47	.58	.31	.71	.27	.13				
5	.20	.38	.47	.58	.27	.70	.27	.15				
6	.20	.41	.44	.58	.31	.67	.27	.15				
7	.20	.44	.44	.58	.29	.70	.29	.13				
8	.20	.44	.44	.48	.36	.69	.40	.09				
9	.21	.44	.44	.48	.45	.63	.38	.06				
10	.27	.49	.44	.44	.35	.63	.70	.06				
11	.39	.47	.44	.44	.35	.63	.50	.05				
12	.35	.49	.54	.39	.35	.63	.44	.02				
13	.35	.39	.56	.35	.35	.63	.48	.01				
14	.33	.39	.52	.35	.35	.63	.52	0				
15	.29	.38	.48	.35	.39	.61	.58	0				
16	.29	.41	.54	.35	.44	.54	.50	0				
17	.31	.50	.54	.31	.50	.50	.50	0				
18	.30	.41	.48	.31	.48	.49	.54	0				
19	.26	.36	.48	.27	.42	.43	.70	0				
20	.23	.35	.56	.23	.44	.42	.63	0				
21	.26	.32	.54	.23	.44	.44	.56	0				
22	.26	.33	.60	.20	.41	.44	.44	0				
23	.23	.34	.64	.20	.44	.44	.40	0				
24	.23	.33	.57	.23	.43	.44	.38	0				
25	.22	.32	.54	.23	.39	.39	.29	0				
26	.29	.33	.54	.31	.36	.31	.22	0				
27	.34	.38	.54	.31	.35	.31	.25	0				
28	.31	.54	.47	.23	.34	.31	.25	0				
29	.35	.50	.47	.20	.75	.31	.19	0				
30	.83	.47	.47	.20	---	.31	.16	0				
31	.48	---	.54	.20	---	.31	---	0	---			---
TOTAL	9.25	12.27	15.61	11.35	11.16	17.83	12.00	1.35	0	0	0	0
MEAN	.30	.41	.50	.37	.38	.58	.40	.044	0	0	0	0
MAX	.83	.54	.64	.58	.75	1.7	.70	.19	0	0	0	0
MIN	.11	.32	.44	.20	.20	.31	.16	0	0	0	0	0
AC-FT	18	24	31	23	22	35	24	2.7	0	0	0	0

CAL YR 1975	TOTAL	47524.43	MEAN 130	MAX	3400	MIN .04	AC-FT	94260
WTR YR 1976	TOTAL	90.82	MEAN .2	MAX	1.7	MIN 0	AC-FT	180

NOTE.--No gage-height record Nov. 29 to Jan. 9.

11143300 ARROYO DEL REY AT DEL REY OAKS, CA

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

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

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

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

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

AVERAGE DISCHARGE.--10 years, 0.67 ft^3/s (0.019 m^3/s), 485 acre-ft/yr (598,000 m^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7.4 ft^3/s (0.21 m^3/s) Mar. 10, gage height, 3.19 ft (0.972 m), no peak above base of 18 ft^3/s (0.5 m^3/s); minimum daily, 0.02 ft^3/s (0.001 m^3/s) for several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.08	.07	.12	.08	.48	.19	.10	.06	.04	.04	.03
2	.03	.08	.07	.06	.08	1.8	.39	.10	.06	.03	.04	.03
3	.03	.07	.07	.06	.08	.57	.42	.10	.06	.04	.04	.03
4	.03	.07	.07	.06	.08	.27	.13	.12	.06	.04	.04	.03
5	.04	.07	.07	.06	.14	.21	.12	.12	.06	.04	.04	.03
6	.03	.08	.07	.06	.10	.18	.12	.13	.06	.04	.04	.03
7	.03	.07	.12	.06	.10	.16	.22	.08	.06	.04	.04	.03
8	.03	.07	.07	.08	.52	.15	.33	.08	.06	.04	.04	.03
9	.03	.07	.07	.12	.27	.15	.13	.08	.10	.04	.04	.03
10	.04	.17	.07	.09	.13	.15	1.2	.10	.13	.04	.04	.03
11	.04	.07	.09	.09	.12	.17	.36	.12	.05	.04	.04	.04
12	.03	.07	.12	.09	.12	.18	.22	.13	.04	.03	.04	.04
13	.03	.07	.13	.09	.12	.14	.17	.24	.04	.03	.04	.04
14	.03	.07	.07	.09	.15	.13	.15	.63	.04	.03	.05	.04
15	.03	.07	.07	.09	.22	.13	.17	.36	.06	.04	.27	.03
16	.03	.09	.07	.09	.13	.13	.12	.07	.07	.03	.03	.05
17	.03	.07	.07	.12	.12	.12	.12	.07	.08	.04	.03	.07
18	.04	.07	.07	.56	.11	.15	.12	.07	.07	.03	.12	.07
19	.27	.07	.07	.52	.25	.18	.12	.07	.05	.03	.24	.08
20	.52	.07	.10	.10	.12	.12	.10	.07	.05	.03	.05	.08
21	.07	.08	.08	.08	.11	.12	.10	.07	.05	.03	.06	.07
22	.05	.08	.08	.08	.11	.12	.10	.07	.05	.03	.09	.07
23	.04	.08	.08	.08	.11	.12	.10	.07	.05	.03	.03	.15
24	.04	.08	.08	.08	.11	.12	.10	.08	.05	.02	.03	.17
25	.04	.08	.08	.08	.10	.12	.10	.08	.05	.03	.02	.42
26	.19	.09	.08	.08	.10	.12	.10	.08	.05	.03	.02	.63
27	.52	.22	.08	.08	.10	.12	.10	.08	.04	.03	.02	.45
28	.09	.52	.08	.08	.11	.12	.10	.08	.04	.03	.02	.34
29	.08	.15	.08	.08	.66	.12	.10	.07	.04	.04	.02	.10
30	.63	.07	.08	.08	---	.12	.10	.07	.03	.04	.02	.06
31	.09	---	.09	.08	---	.12	---	.07	---	.04	.03	---
TOTAL	3.22	3.00	2.50	3.49	4.55	6.89	5.90	3.66	1.71	1.07	1.67	3.30
MEAN	.10	.10	.081	.11	.16	.22	.20	.12	.057	.035	.054	.11
MAX	.63	.52	.13	.56	.66	1.8	1.2	.63	.13	.04	.27	.63
MIN	.03	.07	.07	.06	.08	.12	.10	.07	.03	.02	.02	.03
AC-FT	6.4	6.0	5.0	6.9	9.0	14	12	7.3	3.4	2.1	3.3	6.5

CAL YR 1975 TOTAL 71.21 MEAN .20 MAX 4.2 MIN .02 AC-FT 141
WTR YR 1976 TOTAL 40.96 MEAN .11 MAX 1.8 MIN .02 AC-FT 81

11143500 SALINAS RIVER NEAR POZO, CA

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

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

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

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

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

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

AVERAGE DISCHARGE.--34 years, 16.5 ft^3/s (0.467 m^3/s), 11,950 acre-ft/yr (14.7 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20 ft^3/s (0.57 m^3/s) Sept. 28, gage height, 10.64 ft (3.243 m), no peak above base of 300 ft^3/s (8.5 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.42	1.1	1.3	1.4	1.3	2.4	.62	1.3	.46	.31	0	0
2	.47	1.1	1.5	1.3	1.2	2.9	.62	1.3	.59	.24	0	0
3	.50	1.0	1.6	1.4	1.2	2.6	1.2	1.5	.58	.13	0	0
4	.50	1.0	1.6	1.5	1.1	2.7	1.8	1.8	.58	.13	0	0
5	.56	.94	1.8	1.6	2.1	2.8	1.8	1.8	.60	.05	0	0
6	.70	1.0	1.8	1.4	1.8	3.1	1.9	1.7	.62	.05	0	0
7	.85	.90	1.7	1.4	1.8	2.6	1.8	1.9	.62	.06	0	0
8	.89	.80	1.8	1.2	2.5	2.3	2.2	2.4	.72	.04	0	0
9	.95	.88	1.7	1.6	2.2	2.3	1.9	1.8	.82	.02	0	0
10	2.0	.82	1.7	1.6	2.4	2.1	1.9	1.5	.72	.01	0	.25
11	2.3	.90	1.7	1.7	2.1	1.9	1.9	1.2	.72	.01	0	1.4
12	2.6	.94	1.7	1.4	1.8	1.6	2.0	1.1	.62	.01	0	.86
13	2.8	.94	1.7	.94	1.5	1.6	1.8	1.0	.62	0	0	.75
14	1.6	.94	1.7	.82	1.8	1.5	1.8	.67	.53	.01	0	.74
15	1.4	.83	1.8	.94	1.7	1.6	1.7	.83	.45	.02	0	.84
16	1.6	.79	1.7	.82	1.6	1.5	1.7	1.3	.45	.06	0	.94
17	1.6	.92	1.7	.82	1.2	2.0	1.7	1.5	.45	.06	0	1.0
18	.94	.91	1.7	1.1	1.5	1.6	1.7	1.3	.45	.06	0	.95
19	.94	1.0	1.6	1.2	1.8	2.1	1.8	1.2	.45	.02	.80	.80
20	.82	1.1	1.6	1.4	2.0	1.8	2.0	1.4	.62	0	1.2	.86
21	.82	1.1	1.6	1.4	2.1	3.0	2.3	.98	.94	0	1.1	.95
22	.82	1.1	1.6	1.6	2.1	1.7	2.0	.95	.82	0	1.0	.87
23	.82	1.1	1.6	1.6	3.4	.72	2.5	.74	.72	0	.92	.78
24	.82	1.1	1.5	1.6	2.9	.72	2.5	.71	.62	0	.63	.96
25	.94	1.1	1.3	1.7	3.2	.62	1.8	.70	.45	0	.40	1.0
26	1.1	1.1	1.3	2.0	2.5	.62	1.6	.65	.31	0	.08	1.1
27	1.1	1.1	1.3	2.0	3.1	.53	1.7	.45	.24	0	.01	1.2
28	1.1	1.1	1.4	1.7	3.4	.53	1.6	.42	.24	0	0	2.9
29	1.0	1.0	1.5	1.4	2.5	.53	1.4	.37	.24	0	0	2.6
30	1.1	1.1	1.4	1.2	---	.53	1.3	.39	.31	0	0	1.2
31	1.1	---	1.4	1.3	---	.72	---	.36	---	0	0	---
TOTAL	35.16	29.71	49.3	43.04	59.8	53.22	52.54	35.22	16.56	1.29	6.14	22.95
MEAN	1.13	.99	1.59	1.39	2.06	1.72	1.75	1.14	.55	.042	.20	.77
MAX	2.8	1.1	1.8	2.0	3.4	3.1	2.5	2.4	.94	.31	1.2	2.9
MIN	.42	.79	1.3	.82	1.1	.53	.62	.36	.24	0	0	0
AC-FT	70	59	98	85	119	106	104	70	33	2.6	12	46

CAL YR 1975 TOTAL 1851.30 MEAN 5.07 MAX 172 MIN .20 AC-FT 3670
WTR YR 1976 TOTAL 404.93 MEAN 1.11 MAX 3.4 MIN 0 AC-FT 803

11144000 TORO CREEK NEAR POZO, CA

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

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

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

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

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

AVERAGE DISCHARGE.--13 years (water years, 1962-69, 1972-76), 0.77 ft^3/s (0.022 m^3/s), 558 acre-ft/yr (688,000 m^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21 ft^3/s (0.59 m^3/s) Sept. 28 (2100 hrs), gage height, 4.46 ft (1.359 m), from rating curve extended above 0.9 ft^3/s (0.025 m^3/s) as explained above, peak above base of 15 ft^3/s (0.42 m^3/s); minimum daily, 0.01 ft^3/s (<0.001 m^3/s) June 21, 22, Aug. 8-18, 22-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.24	.37	.30	.37	.39	1.4	.46	.20	.16	.02	.02	.02
2	.32	.37	.70	.37	.31	2.5	.46	.10	.19	.03	.02	.02
3	.26	.37	.70	.30	.62	.86	.46	.05	.19	.03	.02	.03
4	.21	.32	.70	.37	.70	.65	.57	.41	.09	.03	.02	.05
5	.19	.57	.78	.37	.83	.53	.57	.19	.11	.03	.02	.04
6	.19	.57	.78	.37	.83	.48	.57	.42	.24	.03	.02	.05
7	.19	.57	.70	.52	2.0	.46	.57	.38	.19	.02	.02	.04
8	.17	.69	.53	.50	1.6	.45	1.6	.34	.19	.02	.01	.09
9	.19	.99	.46	.47	3.0	.45	.57	.24	.30	.02	.01	.05
10	.15	.46	.57	.46	1.6	.45	.57	.19	.30	.02	.01	.90
11	.17	.30	.57	.51	.69	.54	.57	.14	.19	.02	.01	.69
12	.14	.46	.57	.56	.57	.45	.69	.14	.14	.02	.01	.46
13	.12	.57	.57	.52	.57	.46	.99	.14	.09	.02	.01	.19
14	.10	.57	.57	.51	.57	.46	.69	.14	.09	.02	.01	.11
15	.10	.24	.57	.47	.57	.46	.57	.05	.07	.02	.01	.30
16	.10	.24	.57	.50	.46	.57	.57	.09	.04	.02	.01	.24
17	.10	.24	.57	.33	.46	.57	.57	.07	.04	.02	.01	.57
18	.11	.37	.57	.37	.46	.57	.57	.05	.04	.02	.01	1.2
19	.17	.46	.57	.37	.46	.57	.46	.04	.04	.02	.07	.46
20	.14	.37	.57	.33	.46	.57	.30	.05	.02	.02	.03	.30
21	.11	.37	.46	.33	.57	.37	.83	.04	.01	.02	.02	.11
22	.14	.46	.57	.33	.69	.46	.30	.05	.01	.02	.01	.09
23	.19	.37	.57	.27	.69	.46	.30	.03	.02	.02	.01	.11
24	.24	.30	.57	.22	.69	.46	.19	.05	.02	.02	.01	.14
25	.19	.30	.57	.18	.83	.57	.28	.05	.02	.02	.01	.11
26	.24	.30	.57	.18	1.4	.57	.30	.07	.02	.02	.01	.09
27	.24	.46	.57	.23	1.6	.57	.48	.07	.02	.02	.01	.19
28	.19	.46	.57	.23	1.4	.69	.42	.07	.02	.02	.01	5.5
29	.19	.46	.57	.33	1.4	.69	.40	.09	.02	.02	.01	2.0
30	.46	.37	.57	.45	---	.57	.24	.14	.02	.02	.01	.30
31	.46	---	.57	.52	---	.46	---	.05	---	.02	.05	---
TOTAL	6.01	12.95	18.08	11.84	26.42	19.32	16.12	4.14	2.90	.67	.51	14.45
MEAN	.19	.43	.58	.38	.91	.62	.54	.13	.097	.022	.017	.48
MAX	.46	.99	.78	.56	3.0	2.5	1.6	.42	.30	.03	.07	5.5
MIN	.10	.24	.30	.18	.31	.37	.19	.03	.01	.02	.01	.02
AC-FT	12	26	36	23	52	38	32	8.2	5.8	1.3	1.0	29

CAL YR 1975 TOTAL 180.09 MEAN .49 MAX 4.7 MIN .06 AC-FT 357
WTR YR 1976 TOTAL 133.41 MEAN .36 MAX 5.5 MIN .01 AC-FT 265

11144200 SALSIPUEDES CREEK NEAR POZO, CA

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

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

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

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

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

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

AVERAGE DISCHARGE.--7 years, 1.49 ft^3/s (0.042 m^3/s), 1,080 acre-ft/yr (1.33 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27 ft^3/s (0.76 m^3/s) Mar. 2, gage height, 1.36 ft (0.415 m), no peak above base of 80 ft^3/s (2.3 m^3/s); no flow for long periods.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	.77	.01	0				0
2					0	6.1	.01	0				0
3					0	1.6	.01	.01				0
4					0	.34	.01	0				0
5					0	.06	.01	0				0
6					0	.01	.01	0				0
7					0	.01	.01	0				0
8					0	.01	.01	0				0
9					.01	.01	.01	0				0
10					0	.02	.01	0				0
11					0	.01	.01	0				0
12					0	.02	.01	0				0
13					0	.02	.01	0				0
14					0	.02	.01	0				0
15					0	.02	.01	.01				0
16					0	.02	.01	.01				0
17					0	.02	.01	.01				0
18					0	.02	.01	0				0
19					0	.01	.01	0				0
20					0	.01	0	0				0
21					0	.02	0	0				0
22					0	.01	0	0				0
23					0	.01	0	0				0
24					0	.01	0	0				0
25					0	.01	0	0				0
26					0	.01	0	0				0
27					0	.01	0	0				0
28					0	.01	0	0				.83
29					.01	.01	0	0				3.5
30					---	.01	0	0				.02
31		---			---	.01	---	0	---			---
TOTAL	0	0	0	0	.02	9.22	.19	.04	0	0	0	4.35
MEAN	0	0	0	0	.0007	.30	.006	.001	0	0	0	.15
MAX	0	0	0	0	.01	6.1	.01	.01	0	0	0	3.5
MIN	0	0	0	0	0	.01	0	0	0	0	0	0
AC-FT	0	0	0	0	.04	18	.4	.08	0	0	0	8.6

CAL YR 1975 TOTAL 421.40 MEAN 1.15 MAX 53 MIN 0 AC-FT 836
WTR YR 1976 TOTAL 13.82 MEAN .038 MAX 6.1 MIN 0 AC-FT 27

11144500 SANTA MARGARITA LAKE NEAR POZO, CA

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

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

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

REVISED RECORDS.--WSP 1715: Drainage area.

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

REMARKS.--Reservoir is formed by concrete-arch dam, outlet closed Dec. 6, 1941. Usable capacity based on 1975 resurvey, new capacity table put into use Oct. 1, 1975, 23,000 acre-ft (28.4 hm^3) between elevations 1,220.3 ft (371.95 m), bottom of outlet pipe and 1,300.7 ft (396.45 m) revised, spillway crest, above mean sea level. Additional storage of 400 acre-ft (493,000 m^3) is not available for release. Water diverted at dam into pipeline to small reservoir 10 mi (16 km) below, from which it is pumped to Camp San Luis Obispo and city of San Luis Obispo for water supply; water is also released down natural channel of river. Figures given herein represent usable contents.

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

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

EXTREMES FOR CURRENT YEAR.--Maximum contents, 17,800 acre-ft (21.9 hm^3) Oct. 1, elevation, 1,292.44 ft (393.936 m); minimum, 12,200 acre-ft (15.0 hm^3) Sept. 9, 10, 20-28.

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

1220.3	0	1245	2000	1270	7700	1295	19300
1225	198	1250	2800	1275	9500	1300	22400
1230	470	1255	3800	1280	11500	1310	30700
1235	840	1260	4900	1285	13800	1320	41000
1240	1350	1265	6200	1290	16400		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17700	17100	16600	16300	15900	15700	15200	14700	13800	13000	12600	12300
2	17700	17100	16600	16300	15900	15700	15200	14700	13800	13000	12600	12300
3	17700	17100	16600	16300	15900	15700	15200	14700	13800	13000	12600	12300
4	17700	17100	16600	16300	15800	15700	15200	14600	13700	13000	12600	12300
5	17600	17100	16600	16300	15800	15700	15200	14600	13700	12900	12600	12300
6	17600	17100	16600	16300	15900	15700	15100	14600	13700	12900	12600	12300
7	17600	17000	16600	16200	15900	15700	15100	14600	13700	12900	12600	12300
8	17600	17000	16600	16200	15900	15700	15100	14500	13600	12900	12500	12300
9	17500	17000	16600	16200	15900	15700	15100	14500	13600	12900	12500	12200
10	17500	17000	16600	16200	15900	15700	15100	14500	13600	12900	12500	12200
11	17500	17000	16600	16200	15900	15600	15100	14500	13500	12900	12500	12300
12	17500	17000	16500	16200	15900	15600	15100	14400	13500	12900	12500	12300
13	17500	16900	16500	16200	15900	15600	15100	14400	13500	12900	12500	12300
14	17500	16900	16500	16100	15900	15600	15000	14400	13500	12800	12500	12300
15	17500	16900	16500	16100	15900	15600	15000	14400	13400	12800	12400	12300
16	17400	16900	16500	16100	15900	15500	15000	14300	13400	12800	12400	12300
17	17400	16900	16500	16100	15900	15500	15000	14300	13400	12800	12400	12300
18	17400	16900	16500	16100	15800	15500	15000	14300	13300	12800	12400	12300
19	17400	16800	16500	16000	15800	15500	15000	14200	13300	12800	12400	12300
20	17300	16800	16500	16000	15800	15500	15000	14200	13300	12800	12400	12200
21	17300	16800	16400	16000	15800	15400	14900	14200	13200	12700	12400	12200
22	17300	16800	16400	16000	15800	15400	14900	14100	13200	12700	12400	12200
23	17300	16800	16400	16000	15700	15400	14900	14100	13200	12700	12400	12200
24	17300	16800	16400	16000	15700	15400	14900	14100	13100	12700	12400	12200
25	17200	16700	16400	16000	15700	15400	14900	14000	13100	12700	12400	12200
26	17200	16700	16400	16000	15700	15300	14800	14000	13100	12700	12400	12200
27	17200	16700	16400	16000	15700	15300	14800	14000	13100	12700	12400	12200
28	17200	16700	16400	16000	15700	15300	14800	14000	13100	12700	12400	12200
29	17200	16700	16400	15900	15700	15300	14800	13900	13000	12600	12400	12300
30	17200	16700	16400	15900	---	15300	14700	13900	13000	12600	12400	12300
31	17100	---	16300	15900	---	15300	---	13900	---	12600	12300	---
MAX	17700	17100	16600	16300	15900	15700	15200	14700	13800	13000	12600	12300
MIN	17100	16700	16300	15900	15700	15300	14700	13900	13000	12600	12300	12200
(†)	1291.33	1290.47	1289.89	1289.08	1288.62	1287.85	1286.86	1285.13	1283.38	1282.48	1281.90	1281.80
(‡)	-900	-400	-400	-400	-200	-400	-600	-800	-900	-400	-300	0
(††)	511	418	398	418	366	408	451	651	600	95	72	52

CAL YR 1975..... ‡ -1400 ††5700
WTR YR 1976..... ‡ -5700 ††4440

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet
†† Diversion, in acre-feet, for municipal supply; furnished by county of San Luis Obispo.

NOTE.--New capacity table put into use Oct. 1, 1975; contents on Sept. 30, 1975, from new table, 18,000 acre-ft. Change in contents for October 1975, calendar year 1975, and water year 1976 based on new table.

11144600 SALINAS RIVER BELOW SALINAS DAM, NEAR POZO, CA

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

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

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

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

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

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21 ft^3/s ((0.59 m^3/s) May 5, gage height, 2.23 ft (0.680 m); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	.21	.21	.24	1.8	2.4	2.8	1.8	.34	.08	0	.06
2	.17	.21	.21	1.2	1.7	2.5	2.9	1.9	.30	.05	0	.01
3	.17	.21	.21	2.0	1.6	2.4	1.8	1.9	.27	.06	0	0
4	.21	.21	.21	2.0	1.6	2.4	1.8	1.6	.27	.08	0	0
5	.21	.17	.21	2.3	1.6	2.4	1.7	1.3	.27	.08	0	0
6	.21	.17	.21	2.1	1.6	2.4	1.7	.65	.30	.34	0	0
7	.21	.17	.24	2.1	1.7	2.5	1.7	.80	.30	.10	0	0
8	.17	.17	.24	2.0	2.4	2.4	1.6	.80	.30	.08	0	0
9	.17	.17	.24	2.0	2.2	5.4	1.6	.80	.51	.10	0	0
10	.24	.17	.24	2.0	2.1	7.4	1.6	.80	.34	.10	0	0
11	.24	.17	.24	2.0	2.1	7.4	1.6	.80	.27	.08	0	.01
12	.21	.46	.24	2.2	2.8	7.4	1.6	.70	.27	.34	0	0
13	.34	.21	.24	2.2	3.7	7.4	1.3	.55	.27	.08	0	0
14	.21	.21	.51	2.1	3.7	7.4	.17	.55	.30	.05	0	0
15	.21	.21	.24	2.1	3.7	7.4	.38	.55	.30	.03	0	0
16	.27	.21	.24	2.1	3.7	6.0	.65	.55	.30	.01	0	.17
17	.24	.21	.24	2.1	3.7	2.4	.46	.60	.30	0	0	.01
18	.27	.21	.24	2.1	3.7	2.4	.34	1.3	.30	0	0	0
19	.27	.21	.24	2.2	4.8	2.5	.51	1.8	.30	0	.01	0
20	.27	.21	.24	2.5	5.8	2.5	.24	1.8	.34	.05	0	0
21	.27	.21	.24	1.7	5.8	2.5	.27	1.8	.30	.02	0	.13
22	.27	.21	.24	1.7	5.6	2.5	.34	1.8	.46	0	0	.01
23	.27	.21	.24	1.7	5.4	2.5	.34	1.8	.13	0	0	0
24	.27	.21	.24	1.8	5.4	2.5	.34	1.9	.10	0	0	0
25	.30	.21	.24	1.8	5.4	2.7	.38	1.4	.10	0	0	0
26	.30	.21	.24	1.8	3.7	2.7	.38	.10	.10	0	.02	0
27	.27	.21	.24	1.8	2.7	2.7	.91	.08	.10	0	.01	0
28	.24	.21	.27	1.8	2.5	2.8	1.8	.17	.10	0	0	.08
29	.24	.21	.75	1.9	2.7	2.8	1.8	.34	.06	0	0	.10
30	.51	.21	.24	1.9	---	2.9	1.8	.34	.06	0	0	.01
31	.24	---	.24	1.9	---	2.8	---	.34	---	0	0	---
TOTAL	7.60	6.27	8.07	59.34	95.2	114.4	34.81	31.62	7.66	1.73	.04	.59
MEAN	.25	.21	.26	1.91	3.28	3.69	1.16	1.02	.26	.056	.001	.020
MAX	.51	.46	.75	2.5	5.8	7.4	2.9	1.9	.51	.34	.02	.17
MIN	.13	.17	.21	.24	1.6	2.4	.17	.08	.06	0	0	0
AC-FT	15	12	16	118	189	227	69	63	15	3.4	.08	1.2

CAL YR 1975 TOTAL 723.54 MEAN 1.98 MAX 18 MIN 0 AC-FT 1440
WTR YR 1976 TOTAL 367.33 MEAN 1.00 MAX 7.4 MIN 0 AC-FT 729

11147000 JACK CREEK NEAR TEMPLETON, CA

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

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

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

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

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

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

AVERAGE DISCHARGE.--27 years, 14.1 ft^3/s (0.399 m^3/s), 10,220 acre-ft/yr (12.6 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8.6 ft^3/s (0.24 m^3/s) Mar. 3, gage height, 2.31 ft (0.704 m), no peak above base of 600 ft^3/s (17 m^3/s); no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	.15	.14	.71	.50	.37	.07			
2			0	.16	.15	1.3	.50	.34	.05			
3			0	.17	.14	4.6	.52	.33	.04			
4			0	.12	.16	2.1	.60	.33	.04			
5			0	.13	.30	1.2	.55	.34	.04			
6			0	.13	.27	.69	.57	.34	.05			
7			0	.13	.24	.64	.58	.34	.04			
8			0	.13	.87	.61	.85	.33	.04			
9			.01	.14	.58	.56	.67	.33	.05			
10			.02	.14	.29	.54	.73	.31	.06			
11			.03	.13	.26	.51	.65	.29	.04			
12			.05	.13	.24	.50	.65	.27	.03			
13			.05	.14	.22	.47	.66	.24	.02			
14			.04	.13	.22	.47	.65	.22	.01			
15			.04	.13	.22	.47	.62	.22	.01			
16			.05	.14	.22	.47	.56	.20	0			
17			.06	.14	.22	.47	.57	.20	0			
18			.06	.15	.22	.48	.56	.19	0			
19			.07	.14	.22	.47	.55	.19	0			
20			.07	.14	.22	.47	.54	.18	0			
21			.09	.14	.22	.49	.54	.19	0			
22			.09	.15	.22	.49	.50	.18	0			
23			.09	.15	.22	.50	.49	.14	0			
24			.09	.15	.24	.51	.47	.13	0			
25			.09	.15	.24	.50	.43	.13	0			
26			.09	.13	.24	.50	.43	.11	0			
27			.09	.13	.24	.50	.40	.10	0			
28			.09	.13	.24	.50	.41	.10	0			
29			.11	.13	.91	.50	.40	.10	0			
30			.11	.13	---	.49	.38	.08	0			
31		---	.14	.14	---	.51	---	.08	---			---
TOTAL	0	0	1.63	4.30	8.17	23.22	16.53	6.90	.59	0	0	0
MEAN	0	0	.053	.14	.28	.75	.55	.22	.020	0	0	0
MAX	0	0	.14	.17	.91	4.6	.85	.37	.07	0	0	0
MIN	0	0	0	.12	.14	.47	.38	.08	0	0	0	0
AC-FT	0	0	3.2	8.5	16	46	33	14	1.2	0	0	0

CAL YR 1975	TOTAL	4177.26	MEAN	11.4	MAX	460	MIN	0	AC-FT 8290
WTR YR 1976	TOTAL	61.34	MEAN	.17	MAX	4.6	MIN	0	AC-FT 122

11147070 SANTA RITA CREEK NEAR TEMPLETON, CA

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

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

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

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

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

AVERAGE DISCHARGE.--15 years, 13.9 ft^3/s (0.394 m^3/s), 10,070 acre-ft/yr (12.4 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 51 ft^3/s (1.44 m^3/s) Mar. 2, gage height, 3.85 ft (1.173 m), no peak above base of 600 ft^3/s (17 m^3/s); no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	.14	.14	18	.23	.06				
2		0	0	.14	.14	16	.23	.06				
3		0	0	.14	.14	12	.18	.06				
4		0	0	.14	.15	3.9	.29	.06				
5		1.7	0	.14	.29	1.9	.29	.06				
6		11	0	.14	.43	1.0	.29	.06				
7		8.9	0	.14	.43	.88	.23	.05				
8		.42	0	.10	2.4	.74	.43	.04				
9		.10	0	.14	4.4	.74	.30	.04				
10		.03	0	.14	1.6	.62	.31	.04				
11		0	0	.14	.74	.52	.31	.04				
12		0	0	.14	.62	.43	.23	.03				
13		0	0	.18	.52	.43	.23	.02				
14		0	.02	.18	.52	.43	.21	.02				
15		0	.14	.18	.43	.36	.20	.02				
16		0	.14	.18	.52	.36	.19	.02				
17		0	.14	.18	.52	.43	.18	.02				
18		0	.14	.17	.52	.43	.16	.01				
19		0	.14	.14	.62	.43	.16	.01				
20		0	.14	.14	.74	.43	.14	0				
21		0	.14	.14	.62	.36	.14	0				
22		0	.14	.14	.52	.36	.14	0				
23		0	.18	.14	.52	.36	.14	0				
24		0	.18	.14	.62	.36	.14	0				
25		0	.14	.18	.62	.36	.13	0				
26		0	.14	.16	.62	.43	.10	0				
27		0	.14	.14	.52	.36	.10	0				
28		0	.14	.14	.62	.29	.08	0				
29		0	.14	.14	2.8	.36	.08	0				
30		0	.14	.14	---	.23	.07	0				
31		---	.14	.14	---	.23	---	0	---			---
TOTAL	0	22.15	2.48	4.59	23.33	63.73	5.91	.72	0	0	0	0
MEAN	0	.74	.080	.15	.80	2.06	.20	.023	0	0	0	0
MAX	0	11	.18	.18	4.4	18	.43	.06	0	0	0	0
MIN	0	0	0	.10	.14	.23	.07	0	0	0	0	0
AC-FT	0	44	4.9	9.1	46	126	12	1.4	0	0	0	0
(†)	---	0	.17	0	5.16	1.63	.86	0	---	---	---	2.92
(‡)	3.54	.06	.36	.03	6.85	1.34	1.25	.07	0	0	2.66	2.97

CAL YR 1975 TOTAL 3075.55 MEAN 8.43 MAX 268 MIN 0 AC-FT 6100
WTR YR 1976 TOTAL 122.91 MEAN .34 MAX 18 MIN 0 AC-FT 244

† Precipitation, in inches.
‡ Precipitation, in inches, at auxiliary gage.

11147500 SALINAS RIVER AT PASO ROBLES, CA

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

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

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

REVISED RECORDS.--WSP 981: 1942.

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

REMARKS.--No flow since May 21, 1975. Flow regulated by Santa Margarita Lake (station 11144500) 32 mi (51 km) upstream beginning in 1941. Small diversions above station. Figures of discharge for calendar year 1975 are as follows: Total, 18,478.51 ft^3/s (523 m^3/s); mean, 50.6 ft^3/s (1.43 m^3/s); maximum, 1,530 ft^3/s (43.3 m^3/s), minimum, zero ft^3/s (zero m^3/s); Total, 36,650 acre-ft (45.2 hm^3).

AVERAGE DISCHARGE.--33 years, 84.1 ft^3/s (2.382 m^3/s), 60,930 acre-ft/yr (75.1 hm^3/yr).

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

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

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

11148500 ESTRELLA RIVER NEAR ESTRELLA, CA

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

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

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

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

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

AVERAGE DISCHARGE.--22 years, 23.1 ft^3/s (0.654 m^3/s), 16,740 acre-ft/yr (20.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,500 ft^3/s (920 m^3/s) Feb. 24, 1969, gage height, 10.4 ft (3.17 m) from floodmarks, by slope-area measurement of maximum flow; maximum gage height, 10.9 ft (3.32 m), Jan. 25, 1969, from floodmarks; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 361 ft^3/s (10.2 m^3/s) Sept. 29 (0800 hrs), gage height, 2.58 ft (0.786 m), peak above base of 200 ft^3/s (5.7 m^3/s); no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												0
2												0
3												0
4												0
5												0
6												0
7												0
8												0
9												0
10												0
11												0
12												0
13												0
14												0
15												0
16												0
17												0
18												0
19												0
20												0
21												0
22												0
23												0
24												0
25												0
26												0
27												0
28												0
29												156
30					---							40
31		---			---		---		---			---
TOTAL	0	0	0	0	0	0	0	0	0	0	0	196
MEAN	0	0	0	0	0	0	0	0	0	0	0	6.53
MAX	0	0	0	0	0	0	0	0	0	0	0	156
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	0	0	389

CAL YR 1975 TOTAL 71.26 MEAN .20 MAX 6.4 MIN 0 AC-FT 141
WTR YR 1976 TOTAL 196.00 MEAN .54 MAX 156 MIN 0 AC-FT 389

11148900 NACIMIENTO RIVER BELOW SAPAQUE CREEK, NEAR BRYSON, CA

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

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

WATER-DISCHARGE RECORDS

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

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

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

AVERAGE DISCHARGE.--5 years, 185 ft^3/s (5.239 m^3/s), 134,000 acre-ft/yr (165 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 688 ft^3/s (19.5 m^3/s) Mar. 1, gage height, 11.13 ft (3.392 m), no peak above base of 10,000 ft^3/s (280 m^3/s), revised; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	4.4	4.4	5.2	4.4	312	9.9	8.6	.80			0
2	0	3.5	4.7	5.0	4.4	217	9.9	8.1	.71			0
3	0	2.9	5.0	5.0	4.4	246	10	7.3	.62			0
4	0	2.8	5.0	5.0	4.2	120	11	6.9	.54			0
5	0	2.6	5.0	5.2	5.2	82	13	6.9	.37			0
6	0	2.4	5.2	5.2	6.7	64	13	6.5	.32			0
7	0	2.2	5.2	5.5	9.6	54	13	6.9	.28			0
8	0	2.2	5.2	5.5	20	46	19	6.5	.21			0
9	0	2.1	5.2	5.5	152	41	30	6.1	.19			0
10	.04	2.0	5.2	5.5	84	37	25	5.4	.25			0
11	.05	2.0	5.2	5.5	35	34	38	5.1	.33			0
12	0	2.0	5.2	5.5	22	31	34	4.7	.34			0
13	0	2.2	5.2	5.5	18	27	28	4.1	.36			0
14	0	2.4	5.5	5.8	15	25	26	3.6	.31			0
15	0	2.6	5.2	5.8	12	23	22	3.1	.26			0
16	0	2.8	5.5	5.8	10	22	20	2.7	.13			0
17	0	3.1	5.8	5.8	9.6	21	18	2.3	.10			0
18	0	3.3	5.8	5.5	8.8	19	18	2.4	.05			0
19	0	3.3	5.8	5.5	8.4	18	16	2.3	.02			0
20	0	3.8	5.8	5.2	7.7	16	16	2.1	0			0
21	0	4.2	5.8	5.0	7.3	16	14	1.9	0			0
22	0	4.2	5.8	5.0	6.7	15	14	1.9	0			0
23	0	4.4	5.5	5.0	6.4	15	13	1.9	0			0
24	0	4.7	5.5	4.7	6.1	14	13	1.7	0			0
25	0	4.7	5.5	4.7	6.1	13	11	1.7	0			0
26	0	5.0	5.5	4.7	5.8	13	10	1.6	0			0
27	0	5.0	5.5	4.7	5.8	12	9.9	1.4	0			0
28	0	4.4	5.8	4.7	5.5	11	9.5	1.3	0			0
29	0	4.2	5.5	4.7	9.2	11	9.5	1.0	0			1.0
30	.07	4.2	5.5	4.4	---	11	9.0	1.0	0			.20
31	1.8	---	5.2	4.4	---	11	---	.91	---			---
TOTAL	1.96	99.6	166.2	160.5	500.3	1597	502.7	117.91	6.19	0	0	1.20
MEAN	.063	3.32	5.36	5.18	17.3	51.5	16.8	3.80	.21	0	0	.040
MAX	1.8	5.0	5.8	5.8	152	312	38	8.6	.80	0	0	1.0
MIN	0	2.0	4.4	4.4	4.2	11	9.0	.91	0	0	0	0
AC-FT	3.9	198	330	318	992	3170	997	234	12	0	0	2.4

CAL YR 1975 TOTAL 87175.38 MEAN 239 MAX 13600 MIN 0 AC-FT 172900
WTR YR 1976 TOTAL 3153.56 MEAN 8.62 MAX 312 MIN 0 AC-FT 6260

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972 to current year.
WATER TEMPERATURES: Water years 1972-74.
SEDIMENT RECORDS: Water years 1972 to current year.
Published as station 11148800 "near Bryson" in water years 1958-59, 1961-71.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1971 to September 1974.
SEDIMENT RECORDS: October 1971 to September 1974.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV					
07...	1245	14.5	2.4	10	.06
DEC					
01...	1500	7.0	4.7	5	.06
JAN					
19...	1515	7.5	5.8	1	.02
FEB					
02...	1445	9.5	5.0	16	.22
MAR					
09...	1305	13.0	42	7	.79
APR					
09...	1355	19.0	32	3	.26
MAY					
06...	1340	18.0	6.5	7	.12
JUN					
04...	1205	22.5	.54	4	.01

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
FEB								
02...	1525	9.5	1	5.0	--	1	6	37
02...	1530	9.5	1	5.0	--	2	9	27
02...	1535	9.5	1	5.0	4	16	60	93

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
FEB							
02...	46	53	63	77	91	94	100
02...	45	70	83	88	91	97	100
02...	96	96	97	98	98	100	--

RESERVOIRS IN SALINAS RIVER BASIN, CA

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

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

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

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 223,100 acre-ft (275 hm^3) Oct. 1, elevation, 773.10 ft (235.641 m); minimum observed, 57,820 acre-ft (71.3 hm3) Sept. 30, elevation, 717.85 ft (218.801 m).

11150100 SAN ANTONIO RESERVOIR.--Lat 35°47'55", long 120°53'02", in SW¼ sec.34, T.24 S., R.10 E., Monterey County, at dam on San Antonio River, 0.7 mi (1.1 km) upstream from Sulphur Canyon, and 6.4 mi (10.3 km) southwest of Bradley. DRAINAGE AREA, 330 mi^2 (855 km^2). PERIOD OF RECORD, December 1965 to current year. Monthend contents prior to October 1970, published in WSP 2129. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Monterey County Flood Control and Water Conservation District).

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

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

EXTREMES FOR CURRENT YEAR: Maximum contents, 300,000 acre-ft (370 hm^3) Oct. 1, elevation, 771.00 ft (235.001 m);minimum, 242,400 acre-ft (299 hm^3) Sept. 27, 28, elevation, 759.35 ft (231.450 m).

MONTHEND CONTENTS, IN ACRE-FEET, AT 2400, OCTOBER 1975 TO SEPTEMER 1976

Date	Nacimiento Reservoir	San Antonio Reservoir
Sept. 30, 1975.	223900	300000
Oct. 31.....	212300	296600
Nov. 30.....	204400	293900
Dec. 31.....	199800	292600
Jan. 31, 1976..	194300	291300
Feb. 29.....	189100	292300
Mar. 31.....	186300	292300
Apr. 30.....	180200	278800
May 31.....	163200	268000
June 30.....	140800	259100
July 31.....	109400	250200
Aug. 31.....	81680	245500
Sept. 30.....	57820	242600

11149400 NACIMIENTO RIVER BELOW NACIMIENTO DAM, NEAR BRADLEY, CA

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

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

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

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

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

AVERAGE DISCHARGE (unadjusted).--19 years, 275 ft^3/s (7.788 m^3/s), 199,200 acre-ft/yr (246 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 600 ft^3/s (17.0 m^3/s) July 13, gage height, 4.68 ft (1.426 m); minimum daily, 3.8 ft^3/s (0.11 m^3/s) Dec. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	465	131	129	21	171	22	340	156	330	407	568	440
2	465	131	131	21	171	23	324	154	329	406	564	440
3	465	131	131	21	171	22	322	153	329	405	564	444
4	392	131	131	21	171	22	320	152	329	406	559	444
5	152	131	131	21	215	22	187	152	329	405	559	444
6	149	131	131	21	261	22	70	152	330	403	559	448
7	149	131	131	21	261	22	72	151	330	402	555	448
8	147	131	131	21	261	22	73	220	329	404	555	448
9	147	131	131	20	227	22	75	282	330	400	551	448
10	147	134	131	21	168	46	76	281	329	400	546	453
11	147	134	131	21	165	124	78	280	328	400	546	448
12	147	131	131	21	165	127	87	278	328	400	542	436
13	147	134	131	21	165	127	97	277	328	491	537	436
14	147	134	131	21	165	127	97	275	328	582	537	436
15	147	131	131	21	165	127	98	273	328	582	537	436
16	147	134	131	21	165	127	98	271	328	582	533	440
17	147	134	131	21	165	127	99	270	328	577	499	440
18	144	134	79	21	165	139	99	307	328	577	444	440
19	144	134	5.5	66	162	160	100	340	326	577	444	436
20	144	134	4.1	165	149	160	100	338	327	577	440	436
21	141	134	3.8	165	149	160	100	338	327	573	440	432
22	141	131	12	165	149	160	99	337	327	577	440	432
23	139	131	20	165	149	194	97	336	371	577	440	416
24	139	134	21	162	84	233	95	337	414	573	440	388
25	139	131	21	162	23	233	94	334	412	573	440	384
26	139	131	21	214	22	230	92	332	412	573	436	384
27	139	131	21	333	22	230	92	332	411	573	440	384
28	136	131	21	333	22	227	91	332	411	573	440	358
29	134	131	21	329	23	224	121	332	409	568	440	333
30	134	131	21	283	---	301	157	331	407	568	440	312
31	131	---	21	171	---	355	---	331	---	568	444	---
TOTAL	5651	3963	2517.4	3090	4351	4137	3850	8434	10472	15679	15479	12664
MEAN	182	132	81.2	99.7	150	133	128	272	349	506	499	422
MAX	465	134	131	333	261	355	340	340	414	582	568	453
MIN	131	131	3.8	20	22	22	70	151	326	400	436	312
AC-FT	11210	7860	4990	6130	8630	8210	7640	16730	20770	31100	30700	25120

CAL YR 1975 TOTAL 109281.4 MEAN 299 MAX 4170 MIN 3.8 AC-FT 216800
WTR YR 1976 TOTAL 90287.4 MEAN 247 MAX 582 MIN 3.8 AC-FT 179100

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CA

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

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

WATER-DISCHARGE RECORDS

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

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

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

AVERAGE DISCHARGE.--11 years, 95.2 ft^3/s (2.696 m^3/s), 68,970 acre-ft/yr (85.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,000 ft^3/s (396 m^3/s) Jan. 26, 1969, gage height, 8.25 ft (2.515 m); maximum gage height, 9.2 ft (2.80 m), from floodmarks, Dec. 6, 1966; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 78 ft^3/s (2.21 m^3/s) Mar. 1, gage height, 5.48 ft (1.670 m), no peak above base of 1,500 ft^3/s (42 m^3/s); no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	4.6	5.4	54	6.7	3.1				
2			0	5.1	5.4	54	6.7	2.7				
3			0	4.5	4.9	51	7.4	2.1				
4			0	3.7	4.9	45	7.4	1.8				
5			0	3.9	5.4	37	6.7	1.8				
6			0	3.9	6.7	32	6.7	2.1				
7			0	3.9	6.7	28	6.7	1.8				
8			0	4.0	15	26	9.9	1.6				
9			.02	4.2	33	23	12	1.4				
10			.60	4.2	43	23	17	1.1				
11			.98	3.9	32	21	17	.77				
12			1.5	4.1	27	19	19	.47				
13			1.4	4.1	23	18	18	.22				
14			1.2	3.9	21	18	15	.04				
15			1.3	4.0	19	15	13	0				
16			1.5	4.2	18	14	12	0				
17			1.7	4.2	15	13	9.9	0				
18			1.9	4.4	14	13	9.0	0				
19			2.1	4.4	12	11	8.2	0				
20			2.1	3.9	13	9.9	8.2	0				
21			2.6	3.9	13	9.0	7.4	0				
22			2.6	4.4	9.9	9.0	6.7	0				
23			2.6	4.4	9.0	7.4	6.7	0				
24			2.6	4.4	9.0	7.4	6.0	0				
25			2.7	3.9	8.2	7.4	5.4	0				
26			2.7	3.9	8.2	7.4	4.9	0				
27			2.7	3.9	7.4	6.7	4.9	0				
28			3.0	4.4	8.2	7.4	4.4	0				
29			3.3	4.9	9.0	7.4	3.9	0				
30			3.5	4.4	---	7.4	3.5	0				
31		---	4.2	4.9	---	6.7	---	0	---			---
TOTAL	0	0	48.80	130.5	406.3	608.1	270.3	21.00	0	0	0	0
MEAN	0	0	1.57	4.21	14.0	19.6	9.01	.68	0	0	0	0
MAX	0	0	4.2	5.1	43	54	19	3.1	0	0	0	0
MIN	0	0	0	3.7	4.9	6.7	3.5	0	0	0	0	0
AC-FT	0	0	97	259	806	1210	536	42	0	0	0	0

CAL YR 1975	TOTAL	40143.83	MEAN 110	MAX 2940	MIN 0	AC-FT	79630	
WTR YR 1976	TOTAL	1485.00	MEAN 4.06	MAX 54	MIN 0	AC-FT	2950	

NOTE.--No gage-height record Dec. 1 to Jan. 19.

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.
WATER TEMPERATURES: Water years 1966-73.
SEDIMENT RECORDS: Water years 1966 to current year.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1965 to September 1973.
SEDIMENT RECORDS: October 1965 to September 1974.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
JAN										
19...	1245	15.5	4.9	3	.04	--	--	--	--	--
FEB										
02...	1240	17.0	5.4	10	.15	--	--	--	--	--
MAR										
01...	1230	13.0	74	195	39	65	71	85	97	100
12...	1150	19.5	19	4	.21	--	--	--	--	--
APR										
09...	1215	19.0	13	4	.14	--	--	--	--	--
MAY										
06...	1105	17.5	2.4	3	.02	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
FEB							
02...	1250	1	5.4	--	--	2	15
02...	1255	1	5.4	--	1	2	8
02...	1300	1	5.4	1	2	11	32
02...	1305	1	5.4	1	3	11	23
02...	1310	1	5.4	14	38	71	77

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
FEB							
02...	52	82	95	99	100	--	--
02...	25	46	60	70	81	91	100
02...	53	71	84	93	99	100	--
02...	34	48	65	78	87	95	100
02...	83	88	90	93	97	98	100

PARTICLE-SIZE DISTRIBUTION OF SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (CFS)	STREAM WIDTH (FT)	SEDIMENT BEDLOAD DISCHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
MAR								
12...	1230	19.5	16	19	50	25	--	1
APR								
09...	1209	19.0	12	13	26	14	1	1
MAY								
06...	1115	17.5	9	2.4	9.4	1.4	--	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
MAR							
12...	16	60	88	97	99	100	--
APR							
09...	14	60	90	97	98	99	100
MAY							
06...	12	76	99	100	--	--	--

11150500 SALINAS RIVER NEAR BRADLEY, CA

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

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

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

REVISED RECORDS.--WSP 1285: 1950.

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

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

AVERAGE DISCHARGE (unadjusted).--28 years, 434 ft^3/s (12.29 m^3/s), 314,400 acre-ft/yr (388 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 664 ft^3/s (18.8 m^3/s), Aug. 2, gage height, 6.96 ft (2.121 m); maximum gage height, 7.00 ft (2.134 m) Sept. 29; minimum daily discharge, 26 ft^3/s (0.74 m^3/s) Jan. 17-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	505	166	173	36	177	56	360	365	417	614	639	439
2	505	162	169	36	180	58	319	375	411	607	645	439
3	477	159	159	34	180	56	330	370	417	589	632	466
4	483	159	152	34	174	49	330	360	411	570	614	483
5	295	162	155	33	174	44	355	350	417	565	607	488
6	188	162	155	33	245	42	365	350	400	560	607	483
7	180	159	155	33	264	38	324	350	411	560	607	477
8	173	159	152	33	275	38	330	350	455	559	607	494
9	166	159	152	34	287	36	335	417	461	559	589	499
10	173	162	155	33	213	34	355	395	461	571	559	523
11	176	166	152	31	180	54	345	395	455	595	589	523
12	173	173	149	33	183	105	330	395	450	607	614	477
13	169	169	149	31	183	119	355	400	444	607	607	488
14	166	166	145	31	183	122	350	400	450	614	601	494
15	166	169	142	29	183	124	305	395	444	595	595	483
16	169	173	149	28	183	129	335	370	428	614	589	466
17	169	173	152	26	183	122	360	365	439	607	589	428
18	166	166	155	26	183	122	360	395	455	614	529	417
19	162	155	117	26	183	145	319	422	466	607	559	433
20	166	166	75	63	150	157	314	428	472	607	523	422
21	159	169	59	645	140	160	291	422	455	583	523	422
22	152	169	45	159	140	160	291	417	450	577	535	417
23	152	176	41	169	135	165	291	422	472	571	529	428
24	155	173	43	176	105	206	291	422	494	571	535	400
25	159	166	39	176	91	227	300	428	483	571	511	400
26	162	173	38	169	80	231	295	422	461	589	488	400
27	169	169	38	290	64	227	279	395	461	595	483	400
28	169	176	36	370	56	227	279	395	517	607	477	417
29	166	173	34	335	56	231	287	400	535	607	477	444
30	169	173	36	330	---	227	340	417	589	614	483	428
31	166	---	36	220	---	330	---	417	---	632	472	---
TOTAL	6605	5002	3407	3702	4830	4041	9720	12204	13681	18338	17414	13578
MEAN	213	167	110	119	167	130	324	394	456	592	562	453
MAX	505	176	173	645	287	330	365	428	589	632	645	523
MIN	152	155	34	26	56	34	279	350	400	559	472	400
AC-FT	13100	9920	6760	7340	9580	8020	19280	24210	27140	36370	34540	26930

CAL YR 1975 TOTAL 147313 MEAN 404 MAX 5750 MIN 31 AC-FT 292200
WTR YR 1976 TOTAL 112522 MEAN 307 MAX 645 MIN 26 AC-FT 223200

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

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

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

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

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

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

AVERAGE DISCHARGE.--18 years, 11.6 ft^3/s (0.329 m^3/s), 8,400 acre-ft/yr (10.4 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,800 ft^3/s (306 m^3/s) Jan. 25, 1969, gage height, 15.33 ft (4.673 m) in gage well, 16.2 ft (4.94 m), from floodmarks; no flow many days in 1961 and 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 453 ft^3/s (12.8 m^3/s) Sept. 29, gage height, 6.73 ft (2.051 m), peak above base of 250 ft^3/s (7.1 m^3/s); minimum daily, 0.11 ft^3/s (0.003 m^3/s) Aug. 31, Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.83	2.2	2.2	1.9	1.5	3.0	1.5	1.3	.34	.30	.53	.11
2	.83	1.9	2.2	1.9	1.5	4.2	1.6	1.1	.35	.20	.51	.12
3	.96	1.9	2.2	2.1	1.6	5.7	1.7	1.0	.42	.30	.50	.13
4	.93	1.9	2.3	2.0	1.8	4.7	2.3	.96	.37	.30	.44	.19
5	.90	1.9	2.2	2.0	2.4	3.5	2.3	1.0	.40	.30	.44	.22
6	.90	1.9	2.5	2.0	2.3	3.1	2.0	1.2	.37	.30	.43	.20
7	.97	1.9	2.5	2.1	2.3	3.0	1.9	1.3	.40	.30	.41	.18
8	1.1	1.9	2.7	2.1	4.6	2.6	3.0	1.1	.44	.20	.40	.16
9	1.0	1.9	2.5	2.6	6.1	2.6	3.1	.85	.50	.13	.52	.13
10	1.1	2.2	2.6	2.7	5.3	2.6	2.5	.75	.61	.20	.44	.56
11	1.3	1.9	2.6	2.7	4.1	2.6	2.6	.72	.66	.20	.43	.72
12	1.3	2.2	2.5	2.7	2.4	2.6	2.4	.80	.77	.30	.38	.42
13	1.3	2.2	2.6	2.7	2.3	3.0	2.5	.61	.76	.30	.37	.42
14	1.3	2.2	2.5	2.7	2.4	3.0	5.1	.51	.65	.30	.36	.42
15	1.3	1.9	2.2	2.7	2.3	3.4	4.5	.49	.60	.30	.28	.42
16	1.3	2.2	2.2	2.5	2.4	3.4	3.2	.48	.61	.30	.23	.42
17	1.9	2.2	2.1	2.8	2.3	2.4	2.5	.49	.61	.30	.20	.42
18	1.9	2.2	2.1	2.4	2.1	2.0	2.2	.48	.59	.42	.31	.42
19	1.9	2.2	2.1	1.8	2.4	1.8	1.8	.45	.59	.42	1.8	.42
20	1.9	1.9	2.1	1.5	2.6	1.9	1.7	.45	.62	.42	.80	.42
21	2.2	2.2	2.1	1.4	2.4	1.8	1.6	.47	.42	.42	.54	.42
22	2.2	2.2	2.1	1.3	2.1	1.7	1.7	.37	.42	.47	.44	.42
23	2.2	2.2	2.3	1.4	2.1	1.9	1.7	.35	.42	.45	.36	.42
24	3.0	2.2	2.2	1.6	2.3	1.9	1.7	.36	.42	.47	.25	.42
25	3.0	2.2	2.3	1.5	2.3	1.7	1.6	.35	.30	.44	.21	.42
26	3.4	1.9	2.3	1.4	2.3	1.7	1.4	.46	.20	.44	.27	.42
27	4.3	2.6	2.3	1.4	2.0	1.5	1.4	.36	.20	.46	.23	.42
28	4.3	2.6	2.0	1.4	2.1	1.3	1.4	.35	.20	.51	.17	6.0
29	3.4	2.2	2.0	1.3	2.2	1.3	1.4	.34	.30	.51	.16	279
30	21	2.2	2.0	1.4	---	1.4	1.4	.34	.30	.51	.12	242
31	7.3	---	2.0	1.3	---	1.5	---	.35	---	.50	.11	---
TOTAL	81.22	63.2	70.5	61.3	74.5	78.8	65.7	20.14	13.84	10.97	12.64	536.44
MEAN	2.62	2.11	2.27	1.98	2.57	2.54	2.19	.65	.46	.35	.41	17.9
MAX	21	2.6	2.7	2.8	6.1	5.7	5.1	1.3	.77	.51	1.8	279
MIN	.83	1.9	2.0	1.3	1.5	1.3	1.4	.34	.20	.13	.11	.11
AC-FT	161	125	140	122	148	156	130	40	27	22	25	1060

CAL YR 1975 TOTAL 3970.10 MEAN 10.9 MAX 867 MIN .27 AC-FT 7870
WTR YR 1976 TOTAL 1089.25 MEAN 2.98 MAX 279 MIN .11 AC-FT 2160

11151700 SALINAS RIVER AT SOLEDAD, CA

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

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

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

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

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

AVERAGE DISCHARGE (unadjusted).--8 years, 493 ft^3/s (13.96 m^3/s), 357,200 acre-ft/yr (440 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 106,000 ft^3/s (3,000 m^3/s) Feb. 25, 1969, gage height, 23.31 ft (7.105 m); maximum gage height, 23.39 ft (7.129 m) Jan. 26, 1969; minimum daily discharge, 6.0 ft^3/s (0.17 m^3/s) Mar. 14, 15, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, not determined, occurred Oct. 4, gage height, unknown; minimum daily, 4.4 ft^3/s (0.12 m^3/s) Jan. 24-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	285	127	129	50	89	56	36	73	132	86	171	151
2	290	125	130	47	75	57	59	81	125	93	183	142
3	310	121	130	44	62	60	70	98	117	100	183	137
4	320	119	129	41	54	54	78	106	114	109	175	134
5	320	119	127	41	53	53	91	98	111	134	168	139
6	291	119	125	38	57	50	98	91	109	150	162	149
7	223	119	125	35	65	44	110	91	116	150	159	154
8	193	119	125	35	97	42	123	86	118	157	159	147
9	173	119	125	33	125	41	129	81	121	154	171	146
10	161	123	123	32	134	38	134	95	127	154	168	161
11	152	121	123	27	130	35	144	113	130	159	156	185
12	144	119	123	26	116	33	150	108	130	167	149	203
13	138	119	123	22	111	30	159	100	130	175	145	206
14	130	119	123	21	111	28	165	95	138	167	143	205
15	127	119	123	18	109	32	161	91	138	159	153	209
16	121	121	123	16	109	30	152	95	125	154	167	213
17	116	123	123	14	109	27	171	106	118	157	163	216
18	114	123	123	13	108	24	154	111	116	161	158	218
19	116	116	123	12	109	20	123	113	114	171	176	215
20	118	119	121	9.7	109	17	113	116	114	171	189	215
21	114	121	111	6.3	108	16	106	119	116	165	202	212
22	111	123	98	5.4	113	17	88	121	121	167	198	207
23	113	123	88	5.4	111	17	84	121	111	167	199	207
24	111	125	79	4.4	111	13	78	129	106	165	199	205
25	109	123	73	4.4	109	9.7	75	132	98	165	192	204
26	114	125	70	4.4	106	13	76	130	97	171	188	198
27	119	127	68	5.4	89	21	91	121	93	173	180	199
28	118	130	63	16	73	27	86	118	93	173	168	208
29	114	130	60	28	60	32	81	121	93	163	168	232
30	121	129	56	60	---	32	78	125	86	161	174	257
31	127	---	51	83	---	33	---	130	---	167	166	---
TOTAL	5113	3665	3313	797.4	2812	1001.7	3263	3315	3457	4765	5332	5674
MEAN	165	122	107	25.7	97.0	32.3	109	107	115	154	172	189
MAX	320	130	130	83	134	60	171	132	138	175	202	257
MIN	109	116	51	4.4	53	9.7	36	73	86	86	143	134
AC-FT	10140	7270	6570	1580	5580	1990	6470	6580	6860	9450	10580	11250

CAL YR 1975 TOTAL 112122.0 MEAN 307 MAX 3770 MIN 14 AC-FT 222400
WTR YR 1976 TOTAL 42508.1 MEAN 116 MAX 320 MIN 4.4 AC-FT 84310

NOTE.--No gage-height record Oct. 1-6.

11151870 ARROYO SECO NEAR GREENFIELD, CA

LOCATION.--Lat 36°14'15", long 121°28'50", in NE¼SE¼ sec.36, T.19 S., R.4 E., Monterey County, on right bank 0.6 mi (1.0 km) downstream from Rocky Creek, and 14.5 mi (23.3 km) southwest of Greenfield.

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

WATER-DISCHARGE RECORDS

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

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

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

AVERAGE DISCHARGE.--15 years, 137 ft^3/s (3.880 m^3/s), 99,260 acre-ft/yr (122 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,030 ft^3/s (29.2 m^3/s) Feb. 29, gage height, 6.76 ft (2.060 m), no peak above base of 1,500 ft^3/s (42 m^3/s); minimum daily, 0.42 ft^3/s (0.012 m^3/s) Aug. 4, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	22	22	17	14	182	17	19	6.0	2.1	.53	3.0
2	4.6	19	23	17	14	81	18	19	5.6	1.9	.53	1.9
3	4.9	18	22	17	13	76	17	19	5.2	2.0	.49	1.6
4	4.9	18	21	17	13	62	18	19	4.9	2.2	.42	2.6
5	5.0	17	22	17	16	53	18	19	4.5	2.1	.42	.75
6	5.0	17	21	16	19	47	19	19	4.2	2.1	.65	.87
7	5.4	17	21	16	20	45	21	20	3.8	1.9	1.2	.75
8	7.9	18	20	16	31	44	37	18	4.1	1.7	1.6	.81
9	11	18	20	16	71	41	39	15	3.9	1.7	1.8	1.1
10	40	19	19	16	52	38	32	15	4.7	1.6	2.0	.99
11	37	20	19	16	35	36	52	14	5.6	1.4	2.5	1.8
12	25	19	19	16	29	35	38	14	5.8	1.3	2.6	3.1
13	20	19	20	17	26	32	35	13	5.8	1.3	2.3	3.5
14	19	18	20	16	25	30	31	12	4.9	1.2	2.1	3.3
15	18	17	18	16	23	29	30	11	4.2	1.3	1.8	3.4
16	17	17	17	16	22	28	29	11	4.1	1.3	2.5	3.6
17	16	17	17	16	22	27	28	11	3.2	1.2	3.7	3.9
18	15	17	17	16	21	25	27	11	3.1	1.3	5.8	3.9
19	16	18	16	16	21	24	26	11	2.8	1.3	11	4.1
20	16	18	16	16	21	24	25	11	2.7	1.3	15	3.9
21	15	18	16	15	21	24	24	10	2.8	1.1	12	3.5
22	15	18	16	15	20	23	23	10	2.5	1.1	10	3.1
23	16	18	16	15	18	21	23	9.7	2.5	.99	9.6	2.6
24	18	18	16	15	18	20	22	8.9	2.3	.93	10	2.3
25	20	18	16	15	18	20	22	8.9	2.4	.87	9.9	2.2
26	21	20	16	15	18	19	21	8.9	2.4	.93	8.9	2.1
27	31	21	15	15	18	19	21	8.4	2.4	.87	8.4	2.1
28	27	23	15	15	17	19	20	7.7	2.4	.87	7.7	2.7
29	26	24	16	14	123	18	21	7.3	2.1	.70	8.2	4.2
30	38	37	16	14	---	18	20	7.1	2.0	.61	5.0	5.4
31	35	---	17	14	---	18	---	6.2	---	.57	3.5	---
TOTAL	553.9	578	565	488	779	1178	774	394.1	112.9	41.74	152.14	79.07
MEAN	17.9	19.3	18.2	15.7	26.9	38.0	25.8	12.7	3.76	1.35	4.91	2.64
MAX	40	37	23	17	123	182	52	20	6.0	2.2	15	5.4
MIN	4.2	17	15	14	13	18	17	6.2	2.0	.57	.42	.75
AC-FT	1100	1150	1120	968	1550	2340	1540	782	224	83	302	157

CAL YR 1975 TOTAL 61163.30 MEAN 168 MAX 4890 MIN 3.3 AC-FT 121300
WTR YR 1976 TOTAL 5695.85 MEAN 15.6 MAX 182 MIN .42 AC-FT 11300

11151870 ARROYO SECO NEAR GREENFIELD, CA--Continued

WATER-QUALITY RECORDS

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

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

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT					
07...	1200	16.0	5.6	8	.12
NOV					
10...	1335	10.5	20	1	.05
DEC					
11...	1310	7.0	19	1	.05
JAN					
05...	1225	3.0	17	1	.05
FEB					
04...	1330	8.5	14	1	.04
MAR					
05...	1215	6.5	52	1	.14
APR					
05...	1130	10.5	19	2	.10
MAY					
10...	1135	19.0	14	7	.26
JUN					
09...	1150	19.0	4.1	3	.03
JUL					
07...	1330	24.0	1.9	3	.02
29...	1315	30.0	.66	4	.01

11152000 ARROYO SECO NEAR SOLEDAD, CA

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

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

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

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

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

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

AVERAGE DISCHARGE.--75 years, 161 ft^3/s (4.560 m^3/s), 116,600 acre-ft/yr (144 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 800 ft^3/s (22.7 m^3/s) Mar. 1, gage height, 4.29 ft (1.308 m), no peak above base of 2,500 ft^3/s (71 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	30	22	18	14	243	19	16	3.7	.20		0
2	5.3	25	22	18	15	89	17	15	3.8	.17		0
3	5.4	22	22	18	14	96	17	15	3.4	.14		0
4	5.3	21	21	18	15	61	18	13	3.2	.12		0
5	5.1	20	21	19	18	52	20	14	3.3	.11		0
6	4.8	20	21	19	24	47	20	14	3.5	.09		0
7	4.6	20	21	19	27	45	21	15	4.0	.01		0
8	5.0	20	20	19	33	43	27	15	4.2	0		0
9	5.7	19	20	19	91	41	45	14	4.1	0		0
10	9.1	19	20	19	89	39	37	13	3.5	0		0
11	35	20	20	19	56	37	48	13	3.1	0		0
12	25	21	21	19	39	35	47	11	3.0	0		0
13	19	21	20	20	35	34	40	9.9	3.5	0		0
14	16	21	22	20	32	31	36	8.9	3.8	0		0
15	14	20	22	20	31	28	32	8.0	3.5	0		0
16	14	20	21	20	29	26	30	6.9	3.8	0		0
17	13	20	21	20	28	27	29	6.8	3.9	0		0
18	14	20	19	19	27	27	30	6.5	3.5	0		0
19	12	19	18	20	26	26	28	6.3	3.1	0		0
20	12	20	19	19	26	28	25	6.0	2.7	0		0
21	12	21	19	19	26	30	23	6.4	2.8	0		0
22	12	21	19	19	26	29	21	6.0	2.9	0		0
23	12	21	20	19	25	26	21	6.1	2.6	0		0
24	12	21	20	18	24	23	20	5.8	2.3	0		0
25	12	21	20	18	23	25	18	5.7	1.8	0		0
26	13	21	19	18	23	23	17	5.6	1.4	0		0
27	15	20	19	17	23	22	17	4.3	.90	0		0
28	21	21	18	17	22	25	15	3.9	.50	0		0
29	19	22	18	17	23	25	17	4.2	.33	0		0
30	21	22	18	17	---	22	16	3.7	.23	0		.06
31	35	---	17	16	---	23	---	3.6	---	0		---
TOTAL	413.3	629	620	577	884	1328	771	282.6	86.36	.84	0	.06
MEAN	13.3	21.0	20.0	18.6	30.5	42.8	25.7	9.12	2.88	.027	0	.002
MAX	35	30	22	20	91	243	48	16	4.2	.20	0	.06
MIN	4.6	19	17	16	14	22	15	3.6	.23	0	0	0
AC-FT	820	1250	1230	1140	1750	2630	1530	561	171	1.7	0	.1

CAL YR 1975 TOTAL 79854.30 MEAN 219 MAX 8340 MIN 4.6 AC-FT 158400
WTR YR 1976 TOTAL 5592.16 MEAN 15.3 MAX 243 MIN 0 AC-FT 11090

11152500 SALINAS RIVER NEAR SPRECKELS, CA
(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^2 (10,764 km^2).

WATER-DISCHARGE RECORDS

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

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

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

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

AVERAGE DISCHARGE.--47 years (water years 1930-76), 400 ft^3/s (11.33 m^3/s), 289,800 acre-ft/yr (357 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,100 ft^3/s (2,350 m^3/s) Feb. 26, 1969, gage height, 26.51 ft (8.080 m), site and datum then in use; maximum gage height, 26.85 ft (8.184 m) Jan. 16, 1952, site and datum then in use, from floodmarks; no flow at times in 1929-40.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 244 ft^3/s (6.91 m^3/s) Oct. 7, gage height, 4.54 ft (1.384 m); minimum daily, 0.99 ft^3/s (0.028 m^3/s) June 16, 20, 21, 23, 24, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	194	18	44	7.5	3.2	8.6	2.4	2.2	1.7	1.4	1.8	2.2
2	199	20	46	5.9	3.2	8.6	2.4	2.0	1.8	1.5	1.7	2.2
3	208	21	47	5.5	3.4	10	2.9	1.8	1.8	1.7	1.5	2.2
4	214	21	47	5.5	3.4	5.9	2.4	1.8	1.9	1.5	1.7	2.4
5	219	21	47	5.1	3.4	4.7	2.2	1.9	1.9	1.7	1.7	2.2
6	228	20	45	5.1	3.4	4.7	2.4	1.8	1.7	1.8	1.8	2.0
7	237	20	44	4.7	3.4	4.4	2.2	1.6	1.7	1.8	1.8	2.4
8	159	21	44	4.7	4.0	4.0	2.9	1.7	1.7	1.7	1.8	2.2
9	101	21	45	5.1	4.0	4.0	2.2	1.7	1.5	1.8	1.7	2.4
10	74	25	46	5.1	3.4	3.7	3.4	1.7	1.4	2.2	1.8	2.4
11	50	23	44	4.7	3.4	3.4	2.4	1.7	1.4	2.0	1.8	2.7
12	37	21	45	4.7	3.2	3.4	2.4	1.6	1.4	2.9	2.0	2.7
13	32	22	45	4.0	3.2	3.4	2.4	1.6	1.2	1.8	2.0	2.4
14	27	23	45	4.0	3.2	3.4	2.4	1.6	1.1	2.0	2.2	2.4
15	26	23	45	4.0	3.2	3.2	2.2	1.6	1.1	2.0	2.4	2.7
16	21	25	46	4.0	3.2	3.2	2.2	1.6	.99	2.4	2.2	2.7
17	18	25	46	3.7	3.2	2.9	7.5	1.5	1.1	2.4	2.7	2.9
18	15	25	47	3.7	3.2	3.2	18	1.5	1.1	2.0	2.7	3.4
19	13	27	46	3.7	3.4	2.9	19	1.6	1.1	1.8	3.2	2.9
20	11	30	46	3.4	3.2	2.9	23	1.5	.99	2.0	2.9	2.9
21	8.6	31	47	3.4	3.2	2.9	28	1.6	.99	2.0	2.4	2.9
22	9.3	31	45	3.7	4.0	2.9	30	1.6	1.1	1.8	2.4	2.9
23	6.7	32	38	3.7	10	2.9	23	1.5	.99	1.8	2.4	2.9
24	3.7	32	31	3.7	12	2.7	17	1.4	.99	1.8	2.2	2.9
25	3.7	34	25	3.4	13	2.7	10	1.5	1.1	1.8	2.2	3.2
26	8.6	35	20	3.4	13	2.4	5.9	1.5	1.1	1.7	2.2	3.4
27	12	38	17	3.4	13	2.4	3.4	1.3	.99	1.7	2.2	3.2
28	11	37	15	3.4	11	2.7	3.2	1.3	1.1	1.8	2.2	3.4
29	9.3	40	13	3.2	9.6	2.4	2.7	1.4	1.2	1.7	2.0	4.0
30	12	42	11	3.2	---	2.7	2.4	1.4	1.2	1.7	1.8	4.0
31	19	---	9.3	3.2	---	3.2	---	1.7	---	1.7	2.7	---
TOTAL	2186.9	804	1181.3	131.8	156.0	120.4	232.5	50.2	39.34	57.9	66.1	83.1
MEAN	70.5	26.8	38.1	4.25	5.38	3.88	7.75	1.62	1.31	1.87	2.13	2.77
MAX	237	42	47	7.5	13	10	30	2.2	1.9	2.9	3.2	4.0
MIN	3.7	18	9.3	3.2	3.2	2.4	2.2	1.3	.99	1.4	1.5	2.0
AC-FT	4340	1590	2340	261	309	239	461	100	78	115	131	165

CAL YR 1975 TOTAL 120933.60 MEAN 331 MAX 4750 MIN 1.1 AC-FT 239900
WTR YR 1976 TOTAL 5109.54 MEAN 14.0 MAX 237 MIN .99 AC-FT 10130

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

WATER-QUALITY RECORDS

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

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

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

REMARKS.--Low flow represents waste water from Spreckels sugar refinery and Alisal sewage disposal plant.

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

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,560 micromhos Mar. 9; minimum, 324 micromhos Oct. 7.
WATER TEMPERATURES: Maximum, 25.5°C Sept. 26; minimum, 4.5°C Dec. 19.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 85 mg/L Oct. 6; minimum daily mean, 7 mg/L Oct. 27-29.
SEDIMENT DISCHARGE: Maximum daily, 52 tons (47 tonnes) Oct. 6; minimum daily, 0.03 ton (0.03 tonne) on several days during June.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT											
21...	1345	8.6	8.0	900	7.6	20.0	6	B50	91	300	64
NOV											
11...	1340	23	21	670	7.8	14.0	2	140	38	250	66
DEC											
10...	1145	46	45	670	7.8	11.0	9	B11	B12	250	69
JAN											
15...	1215	4.0	3.8	1370	7.9	14.0	10	B10	35	400	0
FEB											
09...	1200	4.0	4.0	1290	7.8	13.0	10	300	--	360	33
MAR											
08...	1230	4.0	4.4	1290	7.2	15.0	10	390	B67	340	21
APR											
06...	1130	2.4	2.2	1250	7.9	16.0	15	83	96	330	11
MAY											
04...	1300	1.8	2.0	957	7.1	17.0	15	120	120	210	80
JUN											
08...	1100	1.7	1.4	1190	6.9	21.0	15	190	160	270	65
JUL											
12...	1230	2.9	1.3	1310	7.3	21.5	7	--	--	300	100
AUG											
09...	1345	1.7	1.2	1320	6.8	22.0	6	2300	2000	280	81
SEP											
07...	1200	2.4	1.3	--	6.4	22.0	8	1100	1900	270	19

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

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)
OCT 21...	70	30	70	33	1.8	8.8	286	0	235	110	74
NOV 11...	57	26	50	30	1.4	4.8	223	0	183	110	45
DEC 10...	60	25	51	30	1.4	4.6	224	0	184	120	43
JAN 15...	100	37	110	35	2.4	28	522	0	428	55	140
FEB 09...	90	33	99	35	2.3	26	399	0	327	55	140
MAR 08...	86	31	110	39	2.6	23	392	0	322	69	140
APR 06...	79	33	110	40	2.6	24	393	0	322	64	150
MAY 04...	51	21	99	48	2.9	14	163	0	134	110	120
JUN 08...	54	33	130	50	3.4	12	251	0	206	140	120
JUL 12...	67	33	130	47	3.3	12	246	0	202	130	130
AUG 09...	58	33	120	47	3.1	11	243	0	199	160	140
SEP 07...	57	31	140	52	3.7	12	306	0	251	140	130

DATE	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT 21...	.3	19	550	523	.75	12.8	3.6	4.0	7.6	2.8
NOV 11...	.2	14	425	417	.58	26.4	1.7	2.6	4.3	1.3
DEC 10...	.2	15	438	429	.60	54.4	.97	2.0	3.0	.49
JAN 15...	.4	18	781	746	1.06	8.43	2.4	13	15	4.5
FEB 09...	.2	19	742	659	1.01	8.01	5.0	12	17	3.6
MAR 08...	.3	34	746	687	1.01	8.06	5.0	20	25	5.7
APR 06...	.4	34	743	689	1.01	4.81	7.4	1.5	8.9	7.1
MAY 04...	.4	38	623	534	.85	3.03	13	8.8	22	11
JUN 08...	1.0	41	718	655	.98	3.30	16	11	27	11
JUL 12...	3.7	44	704	671	.96	5.51	6.1	7.8	14	7.2
AUG 09...	.5	42	759	684	1.03	3.48	9.5	--	--	12
SEP 07...	.4	45	706	706	.96	4.57	4.2	7.9	12	12

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUS-PENDED CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUS-PENDED CHROMIUM (CR) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)
JAN 15...	1215	6	0	6	<10	<10	0	0	0	0	<50	<49
APR 06...	1130	9	4	5	<10	<10	0	10	0	10	<50	<50
JUL 12...	1230	--	--	3	0	--	0	50	--	0	0	--

DATE	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUS-PENDED MANGANESE (MN) (UG/L)
JAN 15...	1	30	18	12	360	20	<100	<97	3	1100	560
APR 06...	0	40	20	20	410	20	<100	<98	2	790	50
JUL 12...	0	58	--	26	190	50	10	--	0	130	--

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JAN											
15...	540	.1	.1	.0	0	0	0	--	--	20	--
APR											
06...	740	.2	.1	.1	0	0	0	50	30	20	29
JUL											
12...	150	--	--	.1	--	--	4	60	--	30	20

DATE	TIME	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ATRA-ZINE (UG/L)	TOTAL CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA-TERIAL (UG/KG)	P,P' DDD IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA-TERIAL (UG/KG)	P,P' DDE IN BOTTOM MA-TERIAL (UG/KG)
NOV												
11...	1340	ND	ND	ND	ND	ND	ND	--	.4	ND	--	.4
FEB												
09...	1200	ND	--	ND	ND	--	ND	--	--	ND	--	--
MAY												
04...	1300	ND	ND	ND	.2	5	ND	ND	--	.04	ND	--

DATE	TOTAL DDT (UG/L)	DDT IN BOTTOM MA-TERIAL (UG/KG)	P,P' DDT IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DI-AZINON (UG/L)	DI-AZINON IN BOTTOM MA-TERIAL (UG/KG)	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)	ETHION IN BOTTOM MA-TERIAL (UG/KG)	TOTAL HEPTA-CHLOR (UG/L)
NOV												
11...	ND	--	.3	ND	ND	ND	.1	ND	ND	ND	ND	ND
FEB												
09...	ND	--	--	ND	--	ND	--	ND	--	ND	--	ND
MAY												
04...	.10	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	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)	MALA-THION IN BOTTOM MA-TERIAL (UG/KG)	TOTAL METH-OXY-CHLOR (UG/L)	METHOX-YCHLOR IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL METHYL PARA-THION (UG/L)	METHYL PARA-THION IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL METHYL TRI-THION (UG/L)
NOV												
11...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB												
09...	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND
MAY												
04...	ND	ND	.0	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	METHYL TRI-THION IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL PARA-THION (UG/L)	PARA-THION IN BOTTOM MA-TERIAL (UG/KG)	TOTAL TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	TRI-THION IN BOTTOM MA-TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	2,4,5-T IN BOTTOM MA-TERIAL (UG/KG)	TOTAL SILVEX (UG/L)	SILVEX IN BOTTOM MA-TERIAL (UG/KG)
NOV												
11...	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	--
FEB												
09...	--	ND	--	ND	--	ND	--	ND	ND	--	ND	--
MAY												
04...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND Material specifically analyzed for but not detected.

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY ....GENUS .....SPECIES	COMMON NAME		COUNT (CELLS/ML)	PERCENT OF TOTAL
OCT 21	1345	CHLOROPHYTA	GREEN ALGAE			
		.CHLOROPHYCEAE				
		..CHLOROCOCCALES				
		...OOCYSTACEAE				
		L ....TETRAEDRON				0
		...SCENEDESMACEAE				
		L ....SCENEDESMUS				0
		L ....TETRASTRUM				0
		..VOLVOCALES				
		...CHLAMYDOMONADACEAE				
		....CHLAMYDOMONAS			83	2
				TOTALS	83	2
		CHRYSOPHYTA				
		.BACILLARIOPHYCEAE	DIATOMS			
		..CENTRALES	CENTRIC			
		...COSCINODISCACEAE				
		D ....CYCLOTELLA			1,400	41
		..PENNALES	PENNATE			
		...ACHNANTHACEAE				
		....ACHNANTHES			83	2
		....COCCONEIS			83	2
		...CYMBELLACEAE				
		L ....AMPHORA				0
		...GOMPHONEMATACEAE				
		....GOMPHONEMA			83	2
		...NAVICULACEAE	NAVICULOID			
		....NAVICULA			170	5
		...NITZSCHIACEAE				
		D ....NITZSCHIA			1,500	44
		...SURIRELLACEAE				
		L ....CYMATOPLEURA				0
		L ....SURIRELLA				0
				TOTALS	3,300	96
		CYANOPHYTA	BLUE-GREEN ALGAE			
		.MYXOPHYCEAE				
		..OSCILLATORIALES	FILAMENTOUS			
		...OSCILLATORIACEAE				
		L ....OSCILLATORIA				0
		EUGLENOPHYTA	EUGLENOIDS			
		.EUGLENOPHYCEAE				
		..EUGLENALES				
		...EUGLENACEAE				
		L ....EUGLENA				0
		L ....TRACHELOMONAS				0
		TOTAL PHYTOPLANKTON			3,400	
NOV 11	1335	CHLOROPHYTA	GREEN ALGAE			
		.CHLOROPHYCEAE				
		..VOLVOCALES				
		...CHLAMYDOMONADACEAE				
		....CHLAMYDOMONAS			23	1
				TOTALS	23	1
		CHRYSOPHYTA				
		.BACILLARIOPHYCEAE	DIATOMS			
		..CENTRALES	CENTRIC			
		...COSCINODISCACEAE				
		....CYCLOTELLA			120	5
		....MELOSIRA			140	7
		..PENNALES	PENNATE			
		...ACHNANTHACEAE				
		....ACHNANTHES			23	1
		...FRAGILARIACEAE				
		....FRAGILARIA			46	2
		...GOMPHONEMATACEAE				
		....GOMPHONEMA			23	1
		...NAVICULACEAE	NAVICULOID			
		....NAVICULA			280	13
		...NITZSCHIACEAE				
		D ....NITZSCHIA			740	35
		...SURIRELLACEAE				
		....SURIRELLA			46	2
				TOTALS	1,400	66

NOTE.--Footnotes at end of table.

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY ....GENUS .....SPECIES		COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
NOV 11--continued		CYANOPHYTA		BLUE-GREEN ALGAE		
		.MYXOPHYCEAE				
		..OSCILLATORIALES		FILAMENTOUS		
		...OSCILLATORIACEAE				
		....LYNGBYA			190	9
		D ....OSCILLATORIA			460	22
				TOTALS	650	31
		EUGLENOPHYTA		EUGLENOIDS		
		.EUGLENOPHYCEAE				
		..EUGLENALES				
		...EUGLENACEAE				
		....EUGLENA			23	1
				TOTALS	23	1
		TOTAL PHYTOPLANKTON			2,100	
DEC 10	1145	CHLOROPHYTA		GREEN ALGAE		
		.CHLOROPHYCEAE				
		..CHLOROCOCCALES				
		...HYDRODICTYACEAE				
		L ....PEDIASTRUM				0
		...SCENEDESMACEAE				
		L ....SCENEDESMUS				0
		..VOLVOCALES				
		...CHLAMYDOMONADACEAE				
		L ....CHLAMYDOMONAS				0
		CHRYSOPHYTA				
		.BACILLARIOPHYCEAE		DIATOMS		
		..CENTRALES		CENTRIC		
		...COSCINODISCACEAE				
		L ....CYCLOTELLA				0
		L ....MELOSIRA				0
		..PENNALES		PENNATE		
		...ACHNANTHACEAE				
		....ACHNANTHES			58	2
		L ....RHOICOSPHENIA				0
		...CYMBELLACEAE				
		L ....AMPHORA				0
		...DIATOMACEAE				
		L ....DIATOMA				0
		...FRAGILARIACEAE				
		D ....FRAGILARIA			760	30
		...GOMPHONEMATACEAE				
		....GOMPHONEMA			120	5
		...NAVICULACEAE		NAVICULOID		
		L ....CALONEIS				0
		....DIPLONEIS			58	2
		L ....GYROSIGMA				0
		....NAVICULA			350	14
		....NEIDIUM			58	2
		...NITZSCHIACEAE				
		D ....NITZSCHIA			470	18
		...SURIRELLACEAE				
		L ....CYMATOPLEURA				0
		D ....SURIRELLA			700	27
				TOTALS	2,600	100
		EUGLENOPHYTA		EUGLENOIDS		
		.EUGLENOPHYCEAE				
		..EUGLENALES				
		...EUGLENACEAE				
		L ....EUGLENA				0
		PYRRHOPHYTA		FIRE ALGAE		
		.DINOPHYCEAE		DINOFLAGELLATES		
		..PERIDINIALES				
		...GLENODINIACEAE				
		L ....GLENODINIUM				0
		TOTAL PHYTOPLANKTON			2,600	

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY ....GENUS .....SPECIES		COMMON NAME		COUNT (CELLS/ML)	PERCENT OF TOTAL
JAN 15	1215	CHLOROPHYTA		GREEN ALGAE			
		.CHLOROPHYCEAE					
		..VOLVOCALES					
		...CHLAMYDOMONADACEAE					
		....CHLAMYDOMONAS	D			100	7
					TOTALS	100	7
		CHRYSOPHYTA					
		.BACILLARIOPHYCEAE		DIATOMS			
		..CENTRALES		CENTRIC			
		...COSCINODISCACEAE					
		....CYCLOTELLA				34	2
		..PENNALES		PENNATE			
		...ACHNANTHACEAE					
		....COCCONEIS				34	2
		...CYMBELLACEAE					
		....AMPHORA	L				0
		...FRAGILARIACEAE					
		....SYNEDRA	L				0
		...GOMPHONEMATACEAE					
		....GOMPHONEMA				67	5
		...NAVICULACEAE		NAVICULOID			
		....CALONEIS	L				0
		....DIPLONEIS	L				0
		....GYROSIGMA	L				0
		....NAVICULA				200	14
		...NITZSCHIACEAE					
		....NITZSCHIA	D			270	19
		...SURIRELLACEAE					
		....SURIRELLA	D			440	30
					TOTALS	1,000	72
		EUGLENOPHYTA		EUGLENOIDS			
		.EUGLENOPHYCEAE					
		..EUGLENALES					
		...EUGLENACEAE					
		....EUGLENA	D			300	21
					TOTALS	300	21
		TOTAL PHYTOPLANKTON				1,400	
FEB 9	1200	CHLOROPHYTA		GREEN ALGAE			
		.CHLOROPHYCEAE					
		..VOLVOCALES					
		...CHLAMYDOMONADACEAE					
		....CHLAMYDOMONAS	D			6,600	76
					TOTALS	6,600	76
		CHRYSOPHYTA					
		.BACILLARIOPHYCEAE		DIATOMS			
		..CENTRALES		CENTRIC			
		...COSCINODISCACEAE					
		....CYCLOTELLA				600	7
		..PENNALES		PENNATE			
		...NAVICULACEAE		NAVICULOID			
		....NAVICULA				600	7
		...NITZSCHIACEAE					
		....NITZSCHIA				900	10
		...SURIRELLACEAE					
		....SURIRELLA	L				0
					TOTALS	2,100	24
		EUGLENOPHYTA		EUGLENOIDS			
		.EUGLENOPHYCEAE					
		..EUGLENALES					
		...EUGLENACEAE					
		....EUGLENA	L				0
		TOTAL PHYTOPLANKTON				8,700	

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY ....GENUS .....SPECIES		COMMON NAME		COUNT (CELLS/ML)	PERCENT OF TOTAL
MAR		CHLOROPHYTA		GREEN ALGAE			
8	1230	.CHLOROPHYCEAE					
		..CHLOROCOCCALES					
		...HYDRODICTYACEAE					
		....PEDIASTRUM	L				0
		...OOCYSTACEAE					
		....KIRCHNERIELLA				130	3
		..VOLVOCALES					
		...CHLAMYDOMONADACEAE					
		....CHLAMYDOMONAS				88	2
					TOTALS	220	5
		CHRYSOPHYTA					
		.BACILLARIOPHYCEAE		DIATOMS			
		..CENTRALES		CENTRIC			
		...COSCINODISCACEAE					
		....CYCLOTELLA	D			1,300	34
		....MELOSIRA				180	5
		..PENNALES		PENNATE			
		...CYMBELLACEAE					
		....AMPHORA				44	1
		....CYMBELLA				44	1
		...NAVICULACEAE		NAVICULOID			
		....NAVICULA	D			660	17
		...NITZSCHIACEAE					
		....NITZSCHIA	D			700	18
		...SURIRELLACEAE					
		....SURIRELLA				88	2
					TOTALS	3,000	78
		CYANOPHYTA		BLUE-GREEN ALGAE			
		.MYXOPHYCEAE					
		..OSCILLATORIALES		FILAMENTOUS			
		...OSCILLATORIACEAE					
		....OSCILLATORIA				440	11
					TOTALS	440	11
		EUGLENOPHYTA		EUGLENOIDS			
		.EUGLENOPHYCEAE					
		..EUGLENALES					
		...EUGLENACEAE					
		....EUGLENA				180	5
					TOTALS	180	5
		TOTAL PHYTOPLANKTON				3,900	
APR		CHLOROPHYTA		GREEN ALGAE			
6	1130	.CHLOROPHYCEAE					
		..CHLOROCOCCALES					
		...OOCYSTACEAE					
		....ANKISTRODESMUS				570	4
		....SELENASTRUM				180	1
		....TROCHISCIA	L				0
		...SCENEDESMACEAE					
		....SCENEDESMUS				490	3
		..VOLVOCALES					
		...CHLAMYDOMONADACEAE					
		....CHLAMYDOMONAS				88	1
					TOTALS	1,400	9
		CHRYSOPHYTA					
		.BACILLARIOPHYCEAE		DIATOMS			
		..CENTRALES		CENTRIC			
		...COSCINODISCACEAE					
		....CYCLOTELLA	D			5,000	33
		....MELOSIRA				1,300	9
		..PENNALES		PENNATE			
		...CYMBELLACEAE					
		....AMPHORA	L				0
		...GOMPHONEMATACEAE					
		....GOMPHONEMA				130	1
		...NAVICULACEAE		NAVICULOID			
		....NAVICULA				88	1
		...NITZSCHIACEAE					
		....NITZSCHIA	D			2,300	15
					TOTALS	8,700	59

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY ....GENUS .....SPECIES	COMMON NAME		COUNT (CELLS/ML)	PERCENT OF TOTAL
APR 6--Continued		CYANOPHYTA	BLUE-GREEN ALGAE			
		.MYXOPHYCEAE				
		..CHROOCOCCALES	COCCOID			
		...CHROOCOCCACEAE				
	L	....ANACYSTIS				0
		..OSCILLATORIALES	FILAMENTOUS			
		...OSCILLATORIACEAE				
	D	....OSCILLATORIA			3,800	26
		....SPIRULINA			180	1
				TOTALS	4,100	27
		EUGLENOPHYTA	EUGLENOIDS			
		.EUGLENOPHYCEAE				
		..EUGLENALES				
		...EUGLENACEAE				
		....EUGLENA			840	6
				TOTALS	840	6
		TOTAL PHYTOPLANKTON			15,000	
MAY 4	1300	CHLOROPHYTA	GREEN ALGAE			
		.CHLOROPHYCEAE				
		..CHLOROCOCCALES				
		...MICRACTINIACEAE				
		....MICRACTINIUM			2,200	12
		...OOCYSTACEAE				
		....ANKISTRODESMUS			1,500	8
	L	....TETRAEDRON				0
		...SCENEDESMACEAE				
		....SCENEDESMUS			2,400	14
				TOTALS	6,100	34
		CHRYSOPHYTA				
		.BACILLARIOPHYCEAE	DIATOMS			
		..CENTRALES	CENTRIC			
		...COSCINODISCACEAE				
	D	....CYCLOTELLA			6,100	34
		....MELOSIRA			400	2
		..PENNALES	PENNATE			
		...GOMPHONEMATACEAE				
		....GOMPHONEMA			130	1
		...NITZSCHIACEAE				
	D	....NITZSCHIA			3,600	20
				TOTALS	10,000	57
		.CHRYSOPHYCEAE	YELLOW-BROWN ALGAE			
		..CHRYSOMONADALES				
		...CHROMULINACEAE				
		....CHRYSOCOCCUS			130	1
		...OCHROMONADACEAE				
		....OCHROMONAS			130	1
				TOTALS	270	2
		CYANOPHYTA	BLUE-GREEN ALGAE			
		.MYXOPHYCEAE				
		..CHROOCOCCALES	COCCOID			
		...CHROOCOCCACEAE				
		....ANACYSTIS			1,200	7
				TOTALS	1,200	7
		TOTAL PHYTOPLANKTON			18,000	

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY ....GENUS .....SPECIES		COMMON NAME		COUNT (CELLS/ML)	PERCENT OF TOTAL
JUN							
8	1100	CHRYSOPHYTA					
		.BACILLARIOPHYCEAE		DIATOMS			
		..CENTRALES		CENTRIC			
		...COSCINODISCACEAE					
		....CYCLOTELLA				180	2
		....MELOSIRA				180	2
		..PENNALES		PENNATE			
		...GOMPHONEMATACEAE					
		....GOMPHONEMA				270	3
		...NITZSCHIACEAE					
		....NITZSCHIA	D			4,400	52
					TOTALS	5,000	59
		CYANOPHYTA		BLUE-GREEN ALGAE			
		.MYXOPHYCEAE					
		..OSCILLATORIALES		FILAMENTOUS			
		...OSCILLATORIACEAE					
		....OSCILLATORIA	D			3,400	39
					TOTALS	3,400	39
		EUGLENOPHYTA		EUGLENOIDS			
		.EUGLENOPHYCEAE					
		..EUGLENALES					
		...EUGLENACEAE					
		....EUGLENA				180	2
					TOTALS	180	2
		TOTAL PHYTOPLANKTON				8,600	
JUL							
12	1230	CHRYSOPHYTA					
		.BACILLARIOPHYCEAE		DIATOMS			
		..CENTRALES		CENTRIC			
		...COSCINODISCACEAE					
		....CYCLOTELLA				82	2
		....MELOSIRA				330	8
		..PENNALES		PENNATE			
		...FRAGILARIACEAE					
		....FRAGILARIA	D			660	15
		...GOMPHONEMATACEAE					
		....GOMPHONEMA				490	12
		...NAVICULACEAE		NAVICULOID			
		....NAVICULA				82	2
		...NITZSCHIACEAE					
		....NITZSCHIA	D			2,600	62
					TOTALS	4,300	101
		TOTAL PHYTOPLANKTON				4,300	
AUG							
9	1345	CHRYSOPHYTA					
		.BACILLARIOPHYCEAE		DIATOMS			
		..CENTRALES		CENTRIC			
		...COSCINODISCACEAE					
		....CYCLOTELLA				8	2
		....MELOSIRA				14	3
		..PENNALES		PENNATE			
		...GOMPHONEMATACEAE					
		....GOMPHONEMA				19	4
		...NITZSCHIACEAE					
		....NITZSCHIA	D			65	15
		...SURIRELLACEAE					
		....SURIRELLA				3	1
					TOTALS	110	25
		CYANOPHYTA		BLUE-GREEN ALGAE			
		.MYXOPHYCEAE					
		..OSCILLATORIALES		FILAMENTOUS			
		...NOSTOCACEAE					
		....ANABAENA				8	2
		...OSCILLATORIACEAE					
		....OSCILLATORIA	D			310	73
					TOTALS	320	75
		TOTAL PHYTOPLANKTON				430	

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY ....GENUS .....SPECIES	COMMON NAME		COUNT (CELLS/ML)	PERCENT OF TOTAL
SEP 7	1200	CHRYSOPHYTA				
		.BACILLARIOPHYCEAE	DIATOMS			
		..PENNALES	PENNATE			
		...FRAGILARIACEAE				
		....SYNEDRA			150	12
		...GOMPHONEMATACEAE				
		....GOMPHONEMA			23	2
		...NAVICULACEAE	NAVICULOID			
		....NAVICULA			12	1
		...NITZSCHIACEAE				
		....NITZSCHIA			23	2
				TOTALS	210	17
		CYANOPHYTA	BLUE-GREEN ALGAE			
		.MYXOPHYCEAE				
		..OSCILLATORIALES	FILAMENTOUS			
		...OSCILLATORIACEAE				
D		....OSCILLATORIA			1,000	83
				TOTALS	1,000	83
		TOTAL PHYTOPLANKTON			1,300	

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
Oct. 21	42	1.1	0.60	0.80	0.00	630	Polyethylene strip
Apr. 6	29	.90	.50	1.2	.30	330	Polyethylene strip

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	345	336	339	718	691	706	621	609	613	1270	1220	1250
2	352	337	343	688	663	675	627	615	620	1340	1260	1300
3	352	334	339	690	653	671	640	616	630	1390	1280	1340
4	343	331	335	680	657	669	640	630	635	1420	1310	1370
5	338	331	335	687	666	675	654	634	644	1440	1340	1380
6	333	328	330	865	677	721	672	632	650	1450	1340	1390
7	336	324	330	714	681	692	679	647	659	1460	1340	1390
8	404	332	364	701	683	692	674	651	659	1460	1350	1400
9	480	404	445	702	675	690	677	647	663	1480	1370	1410
10	526	483	503	704	649	668	---	---	---	1450	1290	1380
11	556	386	509	676	642	659	---	---	---	1460	1300	1380
12	---	---	---	683	655	667	---	---	---	1500	1360	1420
13	---	---	---	669	648	660	---	---	---	1490	1360	1410
14	---	---	---	681	655	666	---	---	---	1480	1350	1400
15	700	629	655	669	655	663	---	---	---	---	---	---
16	723	669	692	664	651	657	---	---	---	---	---	---
17	759	686	717	673	650	661	---	---	---	1410	1200	1330
18	803	758	780	671	655	663	---	---	---	1430	1230	1330
19	901	797	838	662	643	654	687	671	680	1420	1260	1330
20	878	515	719	657	637	645	687	668	679	1430	1250	1330
21	911	874	891	662	641	649	690	670	680	1420	1240	1320
22	953	895	923	682	655	664	708	674	689	1430	1240	1320
23	1120	957	1010	682	648	662	803	707	748	1420	1220	1310
24	1260	984	1070	662	639	648	894	809	849	1400	1190	1300
25	1220	1020	1130	648	629	639	969	897	931	1410	1200	1310
26	1510	967	1150	637	629	633	1030	968	1000	1440	1240	1320
27	1010	933	971	639	629	633	1080	1040	1070	1430	1240	1320
28	974	907	942	645	631	635	1130	1080	1100	1420	1250	1320
29	913	842	879	652	623	631	1140	1100	1130	1430	1240	1310
30	922	757	852	623	611	618	1180	1130	1170	1410	1180	1300
31	736	678	706	---	---	---	1220	1180	1200	1420	1200	1300
MONTH	1510	324	682	865	611	662	---	---	---	1500	1180	1340

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1400	1180	1310	---	---	---	1370	1140	1220	1240	991	1130
2	1440	1210	1310	---	---	---	1350	1130	1210	1190	938	1060
3	1390	1230	1300	---	---	---	1410	1150	1250	1180	926	1040
4	1390	1170	1290	---	---	---	1400	1210	1280	1120	930	1020
5	1420	1250	1320	---	---	---	1380	1190	1270	1180	935	1060
6	1430	1200	1300	---	---	---	1430	1130	1270	1220	988	1090
7	1390	1200	1280	---	---	---	1440	1140	1220	1210	940	1060
8	1400	1220	1290	---	---	---	1440	1120	1250	1180	932	1070
9	1400	1240	1300	1560	1320	1410	1320	1020	1150	1230	967	1100
10	1470	1280	1360	1520	1320	1410	1310	1100	1220	1190	921	1080
11	1490	1290	1380	1560	1320	1420	1280	1000	1150	1260	990	1090
12	1490	1290	1380	1510	1240	1350	1240	1060	1140	1220	973	1070
13	1460	1210	1340	1460	1240	1340	1300	1060	1160	1110	925	1010
14	1420	1250	1330	1450	1200	1330	1320	1060	1160	1080	890	981
15	1450	1260	1340	1450	1200	1330	1300	1010	1170	1030	876	974
16	1440	1220	1330	1480	1190	1320	1360	1150	1250	1120	925	1010
17	1480	1220	1340	1440	1120	1290	1430	916	1230	1150	973	1040
18	1450	1220	1330	1410	1160	1270	879	628	693	1130	906	1000
19	1460	1250	1350	1430	1250	1330	687	631	660	1080	878	973
20	1440	1260	1340	1420	1160	1300	658	620	640	1100	891	982
21	1430	1230	1330	1360	1110	1240	621	584	595	1070	886	969
22	1430	1200	1330	1360	1140	1220	616	576	596	1050	908	982
23	---	---	---	1370	1140	1230	720	617	676	1090	900	1000
24	---	---	---	1320	1130	1220	804	718	750	1130	938	1020
25	---	---	---	1320	1090	1200	947	805	870	1130	939	1020
26	---	---	---	1290	1070	1190	1100	951	1020	1110	916	996
27	---	---	---	1310	1080	1190	---	---	---	1070	899	972
28	---	---	---	1330	1090	1220	---	---	---	1030	870	946
29	---	---	---	1290	1040	1160	---	---	---	1030	925	987
30	---	---	---	1280	1040	1160	1280	975	1120	1080	1020	1050
31	---	---	---	1390	1140	1260	---	---	---	1120	1070	1090
MONTH	---	---	---	---	---	---	1440	576	1050	1260	870	1030

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1140	991	1030	1190	968	1030	1190	937	1030	1120	908	1020
2	1040	964	999	1150	946	1020	1140	927	993	1120	933	1010
3	1100	913	1020	1110	921	1020	1100	884	970	1090	873	972
4	1200	979	1070	1180	934	1040	1120	930	988	1090	902	1000
5	1140	952	1050	1280	951	1100	1100	911	974	1150	908	1030
6	1150	991	1050	1240	1070	1140	1100	914	995	1110	912	1020
7	1190	989	1090	1150	939	1050	1210	972	1060	1130	1010	1050
8	1370	1080	1180	1120	971	1030	1310	1040	1160	1170	1070	1130
9	1380	1080	1180	1190	976	1060	---	---	---	1170	1090	1140
10	1370	1040	1160	1200	1020	1100	1260	993	1150	1180	1120	1150
11	1310	1010	1130	1260	1000	1110	1190	987	1060	1150	1100	1130
12	1260	1020	1120	---	---	---	1270	1020	1120	1140	1080	1110
13	1250	990	1110	---	---	---	1260	1070	1130	1130	1050	1090
14	1280	1030	1120	---	---	---	1220	1020	1110	1120	1040	1080
15	1270	1010	1100	1340	1020	1120	1180	990	1050	1100	1060	1070
16	1250	1020	1110	1150	962	1050	1070	987	1020	1080	1030	1060
17	1290	1040	1140	1220	1020	1100	1060	1010	1040	1100	1020	1070
18	1330	1060	1160	1210	967	1070	1050	925	991	1110	1050	1080
19	1350	1070	1200	1200	964	1100	1180	993	1060	1100	1060	1080
20	1380	1050	1190	1220	983	1100	1260	1010	1100	1100	1050	1080
21	1360	1070	1180	1210	1010	1080	1210	1030	1100	1100	1040	1080
22	1340	1060	1150	1260	1020	1100	1120	1060	1090	1110	1050	1080
23	1310	1050	1140	1190	945	1040	1100	1060	1080	1100	1030	1070
24	1260	1040	1110	1180	975	1060	1090	973	1030	1090	1050	1070
25	1300	1020	1100	1240	972	1060	1150	936	1010	1100	1050	1080
26	1230	1030	1110	1180	935	1030	1120	904	973	1120	1060	1090
27	1260	985	1100	1180	913	998	1100	864	959	1120	1060	1100
28	1220	990	1080	1160	935	999	1040	880	963	1130	1030	1080
29	1220	1000	1070	1170	947	1010	1140	921	1000	1100	1010	1070
30	1150	945	1030	1170	953	1020	1120	919	992	1200	1020	1100
31	---	---	---	1150	950	1030	1130	876	1010	---	---	---
MONTH	1380	913	1110	1340	913	1060	1310	864	1040	1200	873	1070

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.0	16.5	18.0	11.0	11.5	6.0	10.0	6.0	17.0	11.0	14.5	11.5
2	20.5	16.5	19.5	12.0	12.5	7.5	10.0	5.5	16.5	11.0	11.5	8.5
3	21.5	15.0	19.5	11.5	12.0	8.0	10.0	6.0	16.0	12.0	12.0	7.0
4	22.5	16.0	18.5	11.5	12.5	9.5	11.0	6.0	14.0	12.0	13.5	9.5
5	21.5	16.5	17.5	13.5	13.5	9.5	12.5	8.5	13.0	9.5	16.5	9.5
6	21.0	17.0	18.5	13.0	12.5	7.5	13.5	9.5	13.0	8.0	17.0	11.0
7	19.5	15.0	16.5	11.5	12.0	7.0	13.0	8.5	12.0	8.5	17.5	12.0
8	18.0	13.5	17.0	12.5	12.5	7.5	13.0	8.0	12.0	9.5	16.0	12.0
9	17.0	13.0	15.0	9.5	11.5	7.5	12.0	9.5	13.5	11.0	17.5	11.0
10	19.5	14.0	16.0	11.5	---	---	13.5	8.5	16.5	10.0	15.0	13.5
11	20.0	15.0	14.0	9.0	---	---	13.5	9.0	16.5	10.5	18.5	13.0
12	19.5	13.0	14.0	8.0	---	---	13.0	9.0	16.5	11.0	19.5	12.0
13	20.0	15.0	14.0	8.5	---	---	13.0	8.0	17.0	11.5	19.0	12.5
14	20.5	11.5	14.0	9.5	---	---	13.5	8.5	16.0	13.0	19.0	13.0
15	21.0	14.0	15.5	9.5	---	---	14.0	9.0	15.5	12.5	19.5	13.5
16	21.5	13.0	16.0	12.0	---	---	15.0	9.5	14.0	11.0	20.0	14.0
17	20.5	14.0	13.0	9.0	---	---	16.0	10.5	17.0	12.0	21.0	15.0
18	20.5	14.5	11.5	6.5	---	---	15.5	11.5	17.5	12.0	20.0	16.0
19	22.0	13.0	10.0	5.5	9.0	4.5	15.5	9.5	16.5	13.0	19.0	13.5
20	21.5	13.5	13.0	7.5	9.5	6.5	15.5	9.5	17.0	10.5	19.0	12.5
21	21.5	16.5	12.0	7.0	10.5	7.0	15.0	9.5	16.5	10.0	20.0	13.5
22	20.0	13.5	12.0	6.5	12.5	8.5	14.5	9.0	15.5	10.5	19.5	14.5
23	19.5	11.0	12.0	6.5	12.0	8.0	14.0	9.0	12.5	9.5	19.5	13.5
24	19.5	10.5	12.5	7.0	11.5	7.5	15.0	9.5	14.5	9.5	20.0	13.0
25	19.0	11.0	13.0	7.5	12.0	8.5	15.5	10.5	15.0	10.0	19.0	12.5
26	16.0	14.0	11.5	7.5	10.0	7.0	15.0	9.0	15.5	10.5	19.0	12.0
27	19.5	11.0	12.5	9.5	11.5	7.5	14.5	8.5	17.5	11.5	18.5	13.0
28	19.0	10.0	10.0	7.0	13.0	8.5	15.0	9.0	18.0	13.5	18.5	13.5
29	18.5	9.5	8.5	5.0	13.0	9.0	15.0	9.5	15.5	13.5	19.5	13.0
30	19.0	13.0	9.5	5.0	12.5	10.0	15.5	10.0	---	---	19.5	13.0
31	18.5	10.0	---	---	10.0	7.0	16.0	10.5	---	---	18.0	14.0
MONTH	22.5	9.5	19.5	5.0	---	---	16.0	5.5	18.0	8.0	21.0	7.0

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	194	40	21	18	18	.87	44	13	1.5
2	199	42	23	20	13	.70	46	17	2.1
3	208	49	28	21	11	.62	47	18	2.3
4	214	64	37	21	10	.57	47	16	2.0
5	219	79	47	21	10	.57	47	14	1.8
6	228	85	52	20	12	.65	45	12	1.5
7	237	58	37	20	13	.70	44	11	1.3
8	159	37	16	21	12	.68	44	10	1.2
9	101	35	9.5	21	10	.57	45	12	1.5
10	74	33	6.6	25	10	.68	46	14	1.7
11	50	32	4.3	23	10	.62	44	15	1.8
12	37	30	3.0	21	9	.51	45	16	1.9
13	32	29	2.5	22	9	.53	45	15	1.8
14	27	27	2.0	23	9	.56	45	13	1.6
15	26	24	1.7	23	9	.56	45	12	1.5
16	21	22	1.2	25	9	.61	46	13	1.6
17	18	20	.97	25	9	.61	46	15	1.9
18	15	17	.69	25	8	.54	47	15	1.9
19	13	14	.49	27	8	.58	46	14	1.7
20	11	11	.33	30	9	.73	46	14	1.7
21	8.6	13	.30	31	10	.84	47	18	2.3
22	9.3	10	.25	31	10	.84	45	21	2.6
23	6.7	8	.14	32	11	.95	38	19	1.9
24	3.7	11	.11	32	12	1.0	31	16	1.3
25	3.7	11	.11	34	11	1.0	25	13	.88
26	8.6	9	.21	35	11	1.0	20	12	.65
27	12	7	.23	38	10	1.0	17	11	.50
28	11	7	.21	37	10	1.0	15	10	.41
29	9.3	7	.18	40	10	1.1	13	9	.32
30	12	11	.36	42	10	1.1	11	9	.27
31	19	19	.97	---	---	---	9.3	8	.20
MONTH	2186.9	---	297.35	804	---	22.29	1181.3	---	45.63

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	7.5	8	.16	3.2	16	.14	8.6	8	.19
2	5.9	8	.13	3.2	15	.13	8.6	23	.53
3	5.5	9	.13	3.4	16	.15	10	50	1.4
4	5.5	13	.19	3.4	16	.15	5.9	33	.53
5	5.1	15	.21	3.4	17	.16	4.7	27	.34
6	5.1	12	.17	3.4	18	.17	4.7	25	.32
7	4.7	10	.13	3.4	17	.16	4.4	24	.29
8	4.7	10	.13	4.0	16	.17	4.0	24	.26
9	5.1	10	.14	4.0	15	.16	4.0	29	.31
10	5.1	11	.15	3.4	19	.17	3.7	31	.31
11	4.7	21	.27	3.4	18	.17	3.4	32	.29
12	4.7	28	.36	3.2	16	.14	3.4	32	.29
13	4.0	20	.22	3.2	15	.13	3.4	33	.30
14	4.0	9	.10	3.2	15	.13	3.4	34	.31
15	4.0	9	.10	3.2	15	.13	3.2	34	.29
16	4.0	20	.22	3.2	15	.13	3.2	33	.29
17	3.7	24	.24	3.2	15	.13	2.9	30	.23
18	3.7	26	.26	3.2	16	.14	3.2	27	.23
19	3.7	28	.28	3.4	16	.15	2.9	25	.20
20	3.4	26	.24	3.2	15	.13	2.9	25	.20
21	3.4	24	.22	3.2	14	.12	2.9	26	.20
22	3.7	23	.23	4.0	13	.14	2.9	28	.22
23	3.7	22	.22	10	13	.35	2.9	30	.23
24	3.7	22	.22	12	13	.42	2.7	32	.23
25	3.4	22	.20	13	12	.42	2.7	32	.23
26	3.4	21	.19	13	10	.35	2.4	31	.20
27	3.4	21	.19	13	9	.32	2.4	30	.19
28	3.4	19	.17	11	9	.27	2.7	29	.21
29	3.2	18	.16	9.6	8	.21	2.4	28	.18
30	3.2	17	.15	---	---	---	2.7	28	.20
31	3.2	16	.14	---	---	---	3.2	28	.24
MONTH	131.8	---	5.92	156.0	---	5.54	120.4	---	9.44

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.4	28	.18	2.2	19	.11	1.7	16	.07
2	2.4	28	.18	2.0	18	.10	1.8	15	.07
3	2.9	28	.22	1.8	19	.09	1.8	16	.08
4	2.4	28	.18	1.8	21	.10	1.9	17	.09
5	2.2	29	.17	1.9	20	.10	1.9	18	.09
6	2.4	42	.27	1.8	18	.09	1.7	22	.10
7	2.2	33	.20	1.6	17	.07	1.7	26	.12
8	2.9	28	.22	1.7	17	.08	1.7	26	.12
9	2.2	27	.16	1.7	17	.08	1.5	24	.10
10	3.4	26	.24	1.7	17	.08	1.4	20	.08
11	2.4	26	.17	1.7	17	.08	1.4	16	.06
12	2.4	26	.17	1.6	17	.07	1.4	14	.05
13	2.4	25	.16	1.6	17	.07	1.2	13	.04
14	2.4	23	.15	1.6	17	.07	1.1	13	.04
15	2.2	21	.12	1.6	17	.07	1.1	13	.04
16	2.2	21	.12	1.6	17	.07	.99	13	.03
17	7.5	32	.65	1.5	17	.07	1.1	13	.04
18	18	37	1.8	1.5	17	.07	1.1	13	.04
19	19	26	1.3	1.6	17	.07	1.1	13	.04
20	23	23	1.4	1.5	17	.07	.99	13	.03
21	28	23	1.7	1.6	17	.07	.99	13	.03
22	30	22	1.8	1.6	17	.07	1.1	13	.04
23	23	22	1.4	1.5	17	.07	.99	13	.03
24	17	21	.96	1.4	17	.06	.99	13	.03
25	10	21	.57	1.5	17	.07	1.1	13	.04
26	5.9	20	.32	1.5	17	.07	1.1	13	.04
27	3.4	20	.18	1.3	17	.06	.99	13	.03
28	3.2	28	.24	1.3	17	.06	1.1	13	.04
29	2.7	35	.26	1.4	17	.06	1.2	13	.04
30	2.4	23	.15	1.4	16	.06	1.2	13	.04
31	---	---	---	1.7	16	.07	---	---	---
MONTH	232.5	---	15.64	50.2	---	2.33	39.34	---	1.69

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.4	13	.05	1.8	12	.06	2.2	10	.06
2	1.5	13	.05	1.7	12	.06	2.2	10	.06
3	1.7	13	.06	1.5	12	.05	2.2	10	.06
4	1.5	13	.05	1.7	12	.06	2.4	10	.06
5	1.7	13	.06	1.7	13	.06	2.2	10	.06
6	1.8	13	.06	1.8	15	.07	2.0	11	.06
7	1.8	13	.06	1.8	16	.08	2.4	13	.08
8	1.7	13	.06	1.8	16	.08	2.2	10	.06
9	1.8	14	.07	1.7	16	.07	2.4	9	.06
10	2.2	15	.09	1.8	16	.08	2.4	9	.06
11	2.0	16	.09	1.8	15	.07	2.7	10	.07
12	2.9	16	.13	2.0	14	.08	2.7	10	.07
13	1.8	15	.07	2.0	12	.06	2.4	11	.07
14	2.0	13	.07	2.2	11	.07	2.4	11	.07
15	2.0	13	.07	2.4	10	.06	2.7	11	.08
16	2.4	13	.08	2.2	10	.06	2.7	11	.08
17	2.4	14	.09	2.7	10	.07	2.9	11	.09
18	2.0	14	.08	2.7	10	.07	3.4	11	.10
19	1.8	14	.07	3.2	10	.09	2.9	11	.09
20	2.0	15	.08	2.9	10	.08	2.9	11	.09
21	2.0	15	.08	2.4	10	.06	2.9	11	.09
22	1.8	14	.07	2.4	10	.06	2.9	11	.09
23	1.8	14	.07	2.4	10	.06	2.9	11	.09
24	1.8	14	.07	2.2	10	.06	2.9	12	.09
25	1.8	13	.06	2.2	10	.06	3.2	12	.10
26	1.7	13	.06	2.2	10	.06	3.4	14	.13
27	1.7	13	.06	2.2	10	.06	3.2	14	.12
28	1.8	13	.06	2.2	10	.06	3.4	14	.13
29	1.7	13	.06	2.0	10	.05	4.0	13	.14
30	1.7	12	.06	1.8	10	.05	4.0	12	.13
31	1.7	12	.06	2.7	10	.07	---	---	---
MONTH	57.9	---	2.15	66.1	---	2.03	83.1	---	2.54
YEAR	5109.54		412.55						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
MAR 03...	0915	8.5	10	50	1.3	100	--	--
APR 19...	0745	14.5	15	25	1.0	91	91	100

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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
MAR							
08...	1225	15.0	1	4.4	5	20	82
08...	1230	15.0	1	4.4	1	5	29
08...	1235	15.0	1	4.4	1	15	35
08...	1240	15.0	1	4.4	6	12	29
08...	1245	15.0	1	4.4	4	17	51
08...	1250	15.0	1	4.4	5	19	66
08...	1255	15.0	1	4.4	6	26	55
08...	1300	15.0	1	4.4	11	28	48

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
MAR						
08...	99	100	--	--	--	--
08...	94	99	100	--	--	--
08...	93	99	100	--	--	--
08...	75	82	86	90	95	100
08...	82	89	95	99	100	--
08...	92	96	99	100	--	--
08...	64	68	73	81	91	100
08...	64	76	89	98	100	--

11152540 EL TORO CREEK NEAR SPRECKELS, CA

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

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

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

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

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

AVERAGE DISCHARGE.--15 years, 1.54 ft^3/s (0.044 m^3/s), 1,120 acre-ft/yr (1.38 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8.3 ft^3/s (0.24 m^3/s) Mar. 2, gage height, 3.13 ft (0.954 m), no peak above base of 20 ft^3/s (0.6 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	.13	.17	.17	.18	.34	.15	.13	.06			0
2	.13	.11	.20	.17	.18	1.8	.20	.13	.05			0
3	.09	.11	.20	.15	.18	.51	.26	.13	.05			0
4	.08	.13	.20	.15	.18	.25	.13	.14	.05			0
5	.09	.13	.23	.15	.18	.20	.12	.15	.06			0
6	.08	.13	.23	.15	.18	.18	.13	.14	.06			0
7	.08	.13	.23	.15	.18	.16	.16	.15	.05			0
8	.08	.11	.23	.18	.34	.15	.20	.15	.05			0
9	.09	.15	.23	.19	.24	.15	.17	.15	.06			0
10	.13	.17	.20	.17	.20	.17	.48	.15	.08			0
11	.11	.15	.20	.18	.20	.18	.20	.13	.05			0
12	.11	.13	.23	.17	.21	.17	.20	.11	.05			0
13	.11	.11	.23	.17	.21	.14	.19	.11	.04			0
14	.09	.13	.20	.18	.22	.13	.19	.09	.03			0
15	.09	.13	.26	.17	.22	.13	.21	.08	.02			0
16	.08	.17	.30	.18	.21	.13	.19	.09	.02			0
17	.09	.15	.30	.18	.21	.14	.19	.09	.03			0
18	.11	.17	.26	.17	.21	.17	.19	.11	.03			0
19	.09	.17	.23	.17	.31	.18	.18	.11	.03			0
20	.09	.20	.20	.18	.20	.13	.19	.11	.03			0
21	.11	.17	.20	.17	.20	.12	.18	.09	.02			0
22	.09	.17	.20	.21	.20	.12	.16	.09	.02			0
23	.09	.20	.23	.20	.20	.12	.15	.09	.02			0
24	.08	.17	.23	.20	.18	.12	.14	.09	.01			0
25	.09	.20	.23	.20	.20	.12	.14	.09	0			0
26	.17	.17	.20	.17	.20	.12	.15	.08	0			0
27	.13	.23	.20	.18	.19	.12	.14	.09	0			.01
28	.11	.20	.20	.18	.19	.12	.14	.06	0			.09
29	.09	.15	.20	.17	.36	.12	.14	.08	0			.08
30	.53	.23	.20	.18	---	.12	.13	.08	0			.07
31	.13	---	.20	.18	---	.13	---	.05	---			---
TOTAL	3.55	4.70	6.82	5.42	6.16	6.74	5.40	3.34	.97	0	0	.25
MEAN	.11	.16	.22	.17	.21	.22	.18	.11	.032	0	0	.008
MAX	.53	.23	.30	.21	.36	1.8	.48	.15	.08	0	0	.09
MIN	.08	.11	.17	.15	.18	.12	.12	.05	0	0	0	0
AC-FT	7.0	9.3	14	11	12	13	11	6.6	1.9	0	0	.5

CAL YR 1975 TOTAL 329.71 MEAN .90 MAX 29 MIN .05 AC-FT 654
WTR YR 1976 TOTAL 43.35 MEAN .12 MAX 1.8 MIN 0 AC-FT 86

NOTE.--No gage-height record Mar. 4 to Apr. 7.

11152600 GABILAN CREEK NEAR SALINAS, CA

LOCATION.--Lat 36°45'21", long 121°36'34", in La Natividad Grant, Monterey County, on left bank at downstream side of county road bridge, 0.3 mi (0.5 km) downstream from small left-bank tributary, and 6.2 mi (10.0 km) northeast of Salinas. Prior to Oct. 9, 1975, on right bank.

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

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

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

REMARKS.--No flow since May 14, 1975. No regulation or diversion above station. Discharge for calendar year 1975 as follows: Total, 671.36 ft^3/s (19.0 m^3/s); mean, 1.84 ft^3/s (0.052 m^3/s); maximum daily, 37 ft^3/s (1.05 m^3/s); minimum daily, zero ft^3/s (zero m^3/s); total, 1,330 acre-ft (1.64 hm^3).

AVERAGE DISCHARGE.--6 years, 4.19 ft^3/s (0.119 m^3/s), 3,040 acre-ft/yr (3.75 hm^3/yr).

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

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

11152650 RECLAMATION DITCH NEAR SALINAS, CA

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

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

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 473 ft^3/s (13.4 m^3/s) Apr. 2, 1974; minimum daily, 0.32 ft^3/s (0.009 m^3/s) Oct. 13, 20, 1975.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	8.1	2.5	1.3	1.8	28	4.2	9.0	4.0	8.6	9.3	3.9
2	7.3	3.3	3.9	.73	4.2	38	4.5	8.8	6.4	8.6	9.5	4.5
3	10	2.5	2.5	.91	4.8	48	7.2	8.8	9.0	8.6	9.7	4.2
4	9.3	5.7	3.8	1.0	11	24	5.1	11	8.6	9.0	8.3	4.8
5	3.3	7.0	5.5	1.0	12	6.2	2.8	10	5.5	9.0	8.6	4.6
6	2.5	7.7	4.8	2.7	4.8	3.4	3.6	9.5	3.4	9.3	6.2	2.6
7	4.5	7.2	2.6	1.9	4.6	1.8	5.5	10	2.7	8.6	5.7	2.8
8	4.2	6.4	2.1	1.8	12	2.3	23	10	10	8.3	3.9	5.1
9	3.9	2.3	4.3	7.8	16	3.9	5.3	6.8	10	8.3	3.6	4.0
10	8.1	14	5.0	3.7	2.6	2.6	17	3.9	9.5	8.3	6.4	4.5
11	3.0	5.5	4.5	1.4	1.5	3.2	7.9	6.4	10	8.6	5.3	5.3
12	.68	5.1	6.9	1.2	1.0	4.0	2.4	7.5	10	9.3	5.5	4.6
13	.32	5.7	3.4	1.7	.98	3.6	2.2	5.3	10	6.6	7.7	2.0
14	1.8	5.7	2.0	2.3	3.4	2.3	2.1	7.5	7.7	8.8	7.7	2.8
15	2.6	3.7	1.5	2.4	1.4	2.1	3.4	7.9	10	8.8	9.5	4.2
16	3.0	4.7	3.7	2.0	.98	4.3	3.7	6.1	10	8.6	4.8	5.1
17	2.1	4.6	4.4	2.2	.79	5.1	3.0	3.4	10	8.6	5.1	4.6
18	1.9	8.8	4.0	1.9	1.5	5.3	2.0	6.1	10	9.0	13	4.3
19	.63	10	3.6	1.6	5.1	5.7	2.3	7.2	9.5	10	27	3.7
20	.32	11	2.8	3.4	1.8	3.9	6.1	5.7	9.8	9.5	19	3.0
21	2.4	9.5	1.3	3.6	1.3	3.2	7.0	4.8	2.5	8.8	6.4	4.5
22	2.6	7.5	2.8	3.6	1.1	5.1	10	3.9	11	8.6	3.4	4.2
23	3.0	2.2	3.6	2.9	.91	8.3	9.8	2.6	10	8.8	2.4	4.3
24	2.4	3.0	3.3	4.8	2.1	7.2	10	3.9	9.8	8.6	3.6	7.7
25	1.5	6.6	1.3	2.0	2.1	7.2	6.1	5.0	9.0	8.8	4.3	3.2
26	30	4.9	1.2	1.7	4.6	6.1	4.5	3.3	8.8	9.5	5.7	1.8
27	20	4.2	1.5	2.8	4.3	6.2	7.7	3.3	9.0	9.0	3.6	.63
28	6.1	1.8	1.3	3.4	3.3	6.1	7.0	5.3	9.3	9.0	3.2	16
29	5.1	4.5	1.8	3.2	11	2.5	8.1	5.3	8.8	9.0	2.9	50
30	38	2.0	1.6	3.4	---	3.0	9.0	3.3	8.6	8.8	3.2	37
31	20	---	2.2	3.3	---	4.3	---	2.8	---	9.0	4.6	---
TOTAL	206.55	175.2	95.7	77.64	122.96	256.9	192.5	194.4	252.9	272.3	219.1	209.93
MEAN	6.66	5.84	3.09	2.50	4.24	8.29	6.42	6.27	8.43	8.78	7.07	7.00
MAX	38	14	6.9	7.8	16	48	23	11	11	10	27	50
MIN	.32	1.8	1.2	.73	.79	1.8	2.0	2.6	2.5	6.6	2.4	.63
AC-FT	410	348	190	154	244	510	382	386	502	540	435	416

CAL YR 1975 TOTAL 3819.21 MEAN 10.5 MAX 52 MIN .32 AC-FT 7580
WTR YR 1976 TOTAL 2276.08 MEAN 6.22 MAX 50 MIN .32 AC-FT 4510

11152900 CEDAR CREEK NEAR BELL STATION, CA

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

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

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

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

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

AVERAGE DISCHARGE.--15 years, 4.15 ft^3/s (0.118 m^3/s), 3,010 acre-ft/yr (3.71 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.58 ft^3/s (0.016 m^3/s) Feb. 29, gage height, 1.26 ft (0.384 m), no peak above base of 150 ft^3/s (4.2 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.05	.02	.02	.02	.06	.02	.01				0
2	0	.04	.02	.02	.02	.14	.02	.02				0
3	0	.05	.02	.02	.02	.14	.02	.01				0
4	0	.05	.02	.02	.04	.10	.02	.02				0
5	0	.05	.02	.02	.10	.10	.02	.01				0
6	0	.05	.02	.02	.05	.08	.02	.01				0
7	0	.04	.02	.02	.04	.08	.02	.01				0
8	0	.04	.02	.02	.08	.05	.02	.01				0
9	0	.04	.02	.02	.06	.05	.02	.02				0
10	.02	.02	.02	.02	.03	.05	.02	.02				0
11	.05	.02	.02	.02	.02	.05	.02	.01				0
12	.05	.02	.03	.02	.02	.05	.02	.01				0
13	.04	.02	.03	.02	.02	.04	.02	.01				0
14	.04	.02	.03	.02	.02	.04	.02	.02				0
15	.04	.02	.03	.02	.02	.04	.02	.02				0
16	.04	.02	.03	.02	.02	.04	.03	0				0
17	.04	.02	.03	.02	.02	.04	.03	.01				0
18	.04	.02	.03	.02	.02	.03	.03	.01				0
19	.04	.02	.03	.02	.02	.03	.03	.01				0
20	.04	.02	.03	.02	.02	.03	.02	.01				0
21	.03	.02	.03	.02	.01	.02	.02	.01				0
22	.04	.02	.03	.02	.01	.02	.02	.01				0
23	.03	.02	.03	.02	.01	.02	.02	.01				0
24	.04	.02	.03	.02	.01	.02	.01	.01				0
25	.04	.02	.03	.02	.01	.02	.01	.01				0
26	.10	.02	.02	.02	.01	.02	.01	.01				0
27	.04	.02	.02	.02	.01	.02	.01	.01				0
28	.04	.02	.02	.02	.01	.02	.02	.01				.13
29	.03	.02	.02	.02	.12	.02	.01	.01				.29
30	.14	.02	.02	.02	---	.02	.01	.01				.29
31	.06	---	.02	.02	---	.02	---	0	---			---
TOTAL	1.03	.83	.76	.62	.86	1.46	.58	.35	0	0	0	.71
MEAN	.033	.028	.025	.020	.030	.047	.019	.011	0	0	0	.024
MAX	.14	.05	.03	.02	.12	.14	.03	.02	0	0	0	.29
MIN	0	.02	.02	.02	.01	.02	.01	0	0	0	0	0
AC-FT	2.0	1.6	1.5	1.2	1.7	2.9	1.2	.7	0	0	0	1.4

CAL YR 1975	TOTAL	1312.13	MEAN	3.59	MAX	92	MIN	0	AC-FT 2600
WTR YR 1976	TOTAL	7.20	MEAN	.02	MAX	.29	MIN	0	AC-FT 14

11153000 PACHECO CREEK NEAR DUNNEVILLE, CA

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

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

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

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

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

AVERAGE DISCHARGE.--37 years, 33.1 ft^3/s (0.937 m^3/s), 23,980 acre-ft/yr (29.6 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20 ft^3/s (0.57 m^3/s) Oct. 13, gage height, 4.19 ft (1.277 m); no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	1.1									0	0
2	3.5	1.1									0	0
3	3.5	.92									0	0
4	3.5	.92									0	0
5	3.2	.92									0	0
6	3.2	.92									0	0
7	3.2	.92									0	0
8	2.9	.79									0	0
9	2.9	.65									0	0
10	3.8	.67									.31	0
11	3.8	.63									0	0
12	3.2	.41									.19	0
13	3.5	.54									.23	0
14	2.9	.43									.12	0
15	2.9	.79									0	0
16	2.6	.69									.11	0
17	2.6	.69									.13	0
18	2.4	.66									0	0
19	2.2	.53									0	0
20	1.9	.48									0	0
21	1.6	.30									0	0
22	1.6	.07									0	0
23	1.6	0									.07	0
24	1.4	0									.20	0
25	1.4	0									.16	0
26	1.6	0									.01	0
27	1.2	0									.02	0
28	1.2	0									0	0
29	1.1	0									0	0
30	1.4	0			---						0	.15
31	1.2	---			---		---		---		0	---
TOTAL	76.8	15.13	0	0	0	0	0	0	0	0	1.55	.15
MEAN	2.48	.50	0	0	0	0	0	0	0	0	.050	.005
MAX	3.8	1.1	0	0	0	0	0	0	0	0	.31	.15
MIN	1.1	0	0	0	0	0	0	0	0	0	0	0
AC-FT	152	30	0	0	0	0	0	0	0	0	3.1	.3

CAL YR 1975	TOTAL	8743.83	MEAN 24.0	MAX	1310	MIN 0	AC-FT	17340
WTR YR 1976	TOTAL	93.63	MEAN .26	MAX	3.8	MIN 0	AC-FT	186

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

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

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

WATER-DISCHARGE RECORDS

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

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

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

AVERAGE DISCHARGE.--5 years, 7.86 ft^3/s (0.223 m^3/s), 5,690 acre-ft/yr (7.02 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 795 ft^3/s (22.5 m^3/s) Jan. 16, 1973, gage height, 6.18 ft (1.884 m), from rating curve extended above 180 ft^3/s (5.10 m^3/s) on basis of slope-area measurement at gage height 5.56 ft (1.695 m); no flow many days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9.9 ft^3/s (0.28 m^3/s) Feb. 29, gage height, 2.69 ft (0.820 m), no peak above base of 200 ft^3/s (5.7 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.45	.46	.39	.33	2.4	.40	.22				
2	0	.43	.14	.33	.33	2.7	.41	.24				
3	0	.44	.14	.22	.27	2.4	.44	.28				
4	0	.46	.14	.22	.29	2.1	.49	.22				
5	0	.46	.14	.28	.46	1.6	.46	.24				
6	0	.39	.18	.33	.46	1.4	.45	.25				
7	0	.46	.18	.39	.54	1.3	.40	.23				
8	0	.46	.18	.39	.74	1.2	.62	.20				
9	.04	.54	.18	.46	.74	1.1	.68	.23				
10	2.0	.39	.18	.47	.63	.98	.63	.27				
11	1.1	.39	.18	.44	.54	.96	.88	.20				
12	.74	.39	.27	.46	.54	.85	.72	.07				
13	.46	.39	.33	.46	.54	.81	.58	0				
14	.33	.33	.22	.41	.54	.74	.53	0				
15	.33	.33	.18	.39	.63	.74	.50	0				
16	.33	.39	.14	.39	.54	.74	.46	0				
17	.33	.39	.14	.39	.54	.59	.52	0				
18	.50	.39	.18	.29	.54	.54	.45	0				
19	.32	.46	.27	.27	.61	.54	.39	0				
20	.26	.54	.33	.38	.55	.53	.33	0				
21	.27	.63	.27	.39	.54	.46	.31	0				
22	.28	.54	.27	.39	.44	.41	.29	0				
23	.29	.54	.39	.39	.33	.39	.30	0				
24	.30	.46	.39	.39	.33	.45	.29	0				
25	.33	.46	.39	.39	.31	.45	.29	0				
26	.43	.33	.39	.39	.33	.45	.29	0				
27	.49	.39	.39	.39	.39	.44	.30	0				
28	.44	.46	.33	.39	.39	.35	.32	0				
29	.40	.46	.33	.39	2.8	.36	.31	0				
30	.84	.46	.33	.36	---	.39	.28	0				
31	.57	---	.33	.34	---	.40	---	0	---			---
TOTAL	11.38	13.21	7.97	11.57	16.22	28.77	13.32	2.65	0	0	0	0
MEAN	.37	.44	.26	.37	.56	.93	.44	.086	0	0	0	0
MAX	2.0	.63	.46	.47	2.8	2.7	.88	.28	0	0	0	0
MIN	0	.33	.14	.22	.27	.35	.28	0	0	0	0	0
AC-FT	23	26	16	23	32	57	26	5.3	0	0	0	0

CAL YR 1975 TOTAL 3513.39 MEAN 9.63 MAX 160 MIN 0 AC-FT 6970
WTR YR 1976 TOTAL 105.09 MEAN .29 MAX 2.8 MIN 0 AC-FT 208

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

WATER-QUALITY RECORDS

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

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Minimum (water years 1973-75), 2.0°C Dec. 11, 14, 1972, Jan. 7, 1973.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,400 mg/L Mar. 1, 1974; minimum daily mean, no flow for many days each year.
SEDIMENT DISCHARGE: Maximum daily, 1,860 tons (1,690 tonnes) Mar. 1, 1974; minimum daily, 0 tons (0 tonnes) on many days each year.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 31 mg/L Feb. 29; minimum daily mean, no flow for many days.
SEDIMENT DISCHARGE: Maximum daily, 0.60 ton (0.54 tonne) Feb. 29; minimum daily, 0 tons (0 tonnes) on many days.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER [illegible] TEMBER 1976
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	8.0	---	---	9.0	10.5	---				
2	---	---	---	---	8.0	---	---	---				
3	---	11.5	---	---	---	6.0	---	15.0				
4	---	---	---	---	---	---	---	---				
5	---	---	---	---	---	---	10.0	---				
6	---	---	---	10.0	---	---	---	---				
7	---	---	---	---	---	---	---	---				
8	---	---	10.0	---	---	10.0	---	---				
9	---	---	---	---	11.0	---	---	---				
10	14.0	10.0	---	---	---	---	---	---				
11	15.0	---	---	---	---	---	---	---				
12	---	---	---	---	---	---	11.0	---				
13	---	---	---	10.0	---	---	---	---				
14	---	---	---	---	---	---	---	---				
15	---	---	---	---	---	10.0	---	---				
16	---	---	9.0	---	---	---	---	---				
17	---	10.0	---	---	11.0	---	---	---				
18	---	---	---	---	---	---	---	---				
19	---	---	---	11.0	---	---	11.0	---				
20	---	---	---	---	---	---	---	---				
21	---	---	---	---	---	---	---	---				
22	---	---	---	---	---	11.0	---	---				
23	---	---	10.0	---	---	---	---	---				
24	---	---	---	---	11.0	---	---	---				
25	---	---	---	---	---	---	---	---				
26	---	---	---	11.0	---	---	11.0	---				
27	11.0	---	---	---	---	---	---	---				
28	---	11.0	---	---	---	---	---	---				
29	---	---	---	---	---	11.0	---	---				
30	---	---	11.0	---	---	---	---	---				
31	---	---	---	---	---	---	---	---				
MONTH	---	---	---	---	---	---	---	---				

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

TOTAL-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	.45	2	0	.46	0	0
2	0	0	0	.43	2	0	.14	0	0
3	0	0	0	.44	1	0	.14	0	0
4	0	0	0	.46	1	0	.14	0	0
5	0	0	0	.46	1	0	.14	0	0
6	0	0	0	.39	1	0	.18	0	0
7	0	0	0	.46	1	0	.18	0	0
8	0	0	0	.46	1	0	.18	0	0
9	.04	2	0	.54	4	.01	.18	0	0
10	2.0	20	.11	.39	2	0	.18	0	0
11	1.1	8	.02	.39	2	0	.18	0	0
12	.74	4	.01	.39	2	0	.27	0	0
13	.46	4	0	.39	2	0	.33	0	0
14	.33	4	0	.33	2	0	.22	0	0
15	.33	4	0	.33	3	0	.18	0	0
16	.33	4	0	.39	3	0	.14	0	0
17	.33	3	0	.39	3	0	.14	0	0
18	.50	4	.01	.39	3	0	.18	0	0
19	.32	3	0	.46	3	0	.27	0	0
20	.26	3	0	.54	2	0	.33	0	0
21	.27	3	0	.63	2	0	.27	0	0
22	.28	3	0	.54	2	0	.27	0	0
23	.29	3	0	.54	2	0	.39	0	0
24	.30	3	0	.46	2	0	.39	0	0
25	.33	3	0	.46	2	0	.39	0	0
26	.43	3	0	.33	1	0	.39	0	0
27	.49	3	0	.39	1	0	.39	0	0
28	.44	3	0	.46	0	0	.33	0	0
29	.40	3	0	.46	0	0	.33	0	0
30	.84	8	.02	.46	0	0	.33	0	0
31	.57	4	.01	---	---	---	.33	0	0
MONTH	11.38	---	.18	13.21	---	.01	7.97	---	0

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.39	0	0	.33	1	0	2.4	10	.09
2	.33	0	0	.33	1	0	2.7	6	.04
3	.22	0	0	.27	1	0	2.4	10	.06
4	.22	0	0	.29	1	0	2.1	5	.03
5	.28	1	0	.46	1	0	1.6	3	.01
6	.33	1	0	.46	2	0	1.4	3	.01
7	.39	1	0	.54	2	0	1.3	2	.01
8	.39	1	0	.74	3	.01	1.2	2	.01
9	.46	1	0	.74	3	.01	1.1	3	.01
10	.47	1	0	.63	3	.01	.98	4	.01
11	.44	1	0	.54	2	0	.96	5	.01
12	.46	1	0	.54	2	0	.85	6	.01
13	.46	1	0	.54	1	0	.81	7	.02
14	.41	1	0	.54	1	0	.74	8	.02
15	.39	1	0	.63	2	0	.74	9	.02
16	.39	1	0	.54	1	0	.74	8	.02
17	.39	2	0	.54	1	0	.59	8	.01
18	.29	3	0	.54	1	0	.54	8	.01
19	.27	5	0	.61	2	0	.54	8	.01
20	.38	3	0	.55	2	0	.53	8	.01
21	.39	3	0	.54	1	0	.46	8	.01
22	.39	2	0	.44	1	0	.41	8	.01
23	.39	2	0	.33	2	0	.39	8	.01
24	.39	2	0	.33	3	0	.45	8	.01
25	.39	2	0	.31	2	0	.45	8	.01
26	.39	2	0	.33	2	0	.45	7	.01
27	.39	2	0	.39	2	0	.44	7	.01
28	.39	1	0	.39	2	0	.35	7	.01
29	.39	1	0	2.8	31	.60	.36	7	.01
30	.36	1	0	---	---	---	.39	8	.01
31	.34	1	0	---	---	---	.40	9	.01
MONTH	11.57	---	0	16.22	---	.63	28.77	---	.53

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

TOTAL-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.40	10	.01	.22	5	0			
2	.41	10	.01	.24	4	0			
3	.44	10	.01	.28	4	0			
4	.49	9	.01	.22	4	0			
5	.46	9	.01	.24	4	0			
6	.45	9	.01	.25	4	0			
7	.40	8	.01	.23	4	0			
8	.62	7	.01	.20	4	0			
9	.68	7	.01	.23	4	0			
10	.63	6	.01	.27	4	0			
11	.88	5	.01	.20	3	0			
12	.72	5	.01	.07	0	0			
13	.58	5	.01	0	0	0			
14	.53	5	.01	0	0	0			
15	.50	5	.01	0	0	0			
16	.46	4	0	0	0	0			
17	.52	4	.01	0	0	0			
18	.45	4	0	0	0	0			
19	.39	4	0	0	0	0			
20	.33	5	0	0	0	0			
21	.31	6	.01	0	0	0			
22	.29	7	.01	0	0	0			
23	.30	8	.01	0	0	0			
24	.29	9	.01	0	0	0			
25	.29	10	.01	0	0	0			
26	.29	11	.01	0	0	0			
27	.30	9	.01	0	0	0			
28	.32	8	.01	0	0	0			
29	.31	7	.01	0	0	0			
30	.28	6	0	0	0	0			
31	---	---	---	0	0	0	---	---	---
MONTH	13.32	---	.25	2.65	---	0	0	---	
YEAR	105.09		1.60						

RESERVOIRS IN PAJARO RIVER BASIN, CA

11153480 CHESBRO RESERVOIR.--Lat 37°07'00", long 121°41'34", near southwest boundary of Ojo de Agua de la Coche Grant, Santa Clara County, at left end of dam on Llagas Creek, and 2.5 mi (4.0 km) west of Morgan Hill. DRAINAGE AREA, 19.3 mi^2 (50.0 km^2). PERIOD OF RECORD, December 1955 to current year. Monthly contents prior to October 1959 published in WSP 1735. GAGE, nonrecording gage read once daily. Datum of gage is at mean sea level (levels by South Santa Clara Valley Water Conservation District).

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

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 8,220 acre-ft (10.1 hm^3) Feb. 10, 1973, elevation, 525.5 ft (160.17 m); maximum elevation, 527.4 ft (160.75 m) Feb. 24, 1969; no contents at times in 1957, 1960-62, 1973.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 4,650 acre-ft (5.73 hm^3) Oct. 1, elevation, 510.41 ft (155.573 m); minimum observed, 180 acre-ft (222,000 m^3) Sept. 30, elevation, 468.90 ft (142.921 m).

11154020 UVAS RESERVOIR.--Lat 37°04'02", long 121°41'25", in Las Uvas Grant, Santa Clara County, at center of dam on Uvas Creek, and 4.8 mi (7.7 km) southwest of Morgan Hill. DRAINAGE AREA, 30.4 mi^2 (78.7 km^2). PERIOD OF RECORD, December 1957 to current year. Monthly contents prior to October 1959 published in WSP 1735. GAGE, nonrecording gage read once daily. Datum of gage is at mean sea level (levels by South Santa Clara Valley Water Conservation District).

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

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 11,030 acre-ft (13.6 hm^3) Mar. 16, 1967, elevation, 490.5 ft (149.50 m); no contents May 18 to Nov. 30, 1961, Sept. 20-30, 1976.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 4,240 acre-ft (5.23 hm^3) Oct. 1, elevation, 461.52 ft (140.671 m); no contents Sept. 20-30.

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY STORAGE ABOVE SPILLWAY CREST), AT 0800, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Chesbro Reservoir	Uvas Reservoir
Sept. 30, 1975..	4660	4250
Oct. 31.....	3970	3370
Nov. 30.....	3310	2230
Dec. 31.....	2820	1750
Jan. 31, 1976...	2530	1430
Feb. 29.....	2310	1240
Mar. 31.....	2100	1190
Apr. 30.....	1910	1010
May 31.....	1680	715
June 30.....	1460	496
July 31.....	1210	353
Aug. 31.....	812	180
Sept. 30.....	180	0

11153700 PAJARO RIVER NEAR GILROY, CA

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

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

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

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

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

AVERAGE DISCHARGE.--17 years, 53.8 ft^3/s (1.524 m^3/s), 38,980 acre-ft/yr (48.1 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 32 ft^3/s (0.91 m^3/s) Feb. 29, gage height, 4.28 ft (1.305 m); minimum daily, 0.08 ft^3/s (0.002 m^3/s) Sept. 11, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	5.2	4.6	6.5	3.2	12	4.7	2.3	1.5	1.6	4.7	.47
2	4.1	5.5	4.8	6.1	3.4	13	6.0	2.6	2.0	1.6	3.1	.17
3	3.7	5.5	4.8	6.5	3.4	14	6.1	3.1	2.2	1.3	3.6	.64
4	3.4	5.5	3.8	6.1	3.4	5.9	6.2	3.1	2.1	1.6	3.0	.47
5	3.4	5.5	3.8	6.1	3.4	5.2	6.2	2.5	1.8	1.2	3.2	.22
6	3.5	5.4	3.6	6.1	3.0	4.8	5.0	2.6	1.3	1.1	2.7	.17
7	3.2	5.0	3.6	5.8	3.0	4.5	3.9	2.4	1.7	1.6	2.6	.17
8	3.0	5.0	3.8	5.8	3.2	4.4	3.8	2.1	1.3	1.9	3.2	.33
9	3.2	4.8	3.8	5.8	3.2	4.3	3.3	2.8	1.4	1.6	3.9	.17
10	4.1	4.8	3.8	4.8	2.8	4.7	4.3	1.8	2.8	1.3	3.0	.14
11	3.8	4.3	3.8	4.5	2.7	4.8	3.8	1.7	3.8	1.2	2.8	.08
12	3.4	4.3	4.1	4.5	2.7	4.9	3.3	1.7	4.1	1.9	2.5	.14
13	3.4	4.3	4.5	4.5	2.7	4.8	3.4	2.1	3.2	1.9	2.0	.14
14	3.2	4.3	5.0	4.5	2.7	4.7	2.8	2.2	3.2	2.4	1.6	.11
15	3.2	4.2	5.8	4.5	2.7	4.7	2.4	2.6	3.2	2.0	1.7	.08
16	3.4	4.8	5.8	4.5	2.7	4.6	2.1	2.4	3.2	2.0	2.0	.17
17	3.4	5.1	5.5	4.8	2.7	4.5	2.1	2.1	3.2	2.2	1.6	.27
18	3.4	5.3	5.2	4.8	3.0	4.5	2.3	2.0	3.0	2.2	.95	.55
19	3.6	5.0	5.0	5.0	3.2	4.5	2.1	2.5	3.0	3.0	1.1	.73
20	3.6	5.6	5.0	5.0	3.2	4.2	2.6	2.4	3.4	2.4	.84	1.6
21	3.6	7.0	5.0	5.0	3.2	4.0	2.8	2.2	3.6	2.7	.39	1.7
22	3.8	6.0	5.0	4.8	3.6	3.6	3.6	2.4	3.4	2.4	.55	1.4
23	3.6	5.3	4.5	4.8	4.1	3.8	2.7	2.2	3.0	1.8	.73	1.4
24	3.8	6.1	4.5	4.5	4.3	3.6	3.1	1.6	2.7	2.5	.55	1.3
25	3.8	6.2	4.3	4.1	4.3	3.5	3.2	2.6	2.8	2.4	.47	1.2
26	4.1	6.6	4.3	4.1	4.3	4.5	2.7	2.5	2.4	2.8	.33	.95
27	4.3	5.3	4.3	4.1	5.0	4.5	2.8	3.0	2.2	3.1	.95	.73
28	4.1	5.0	4.5	3.8	4.1	4.0	3.7	3.0	1.9	3.8	1.7	.95
29	4.1	4.6	4.8	3.4	7.5	4.1	3.3	1.8	1.6	4.3	1.3	5.0
30	5.0	4.5	5.2	3.4	---	4.5	2.5	1.3	1.9	4.2	.33	6.8
31	5.0	---	5.8	3.4	---	4.6	---	1.9	---	4.2	.27	---
TOTAL	115.5	156.0	142.3	151.6	100.7	163.7	106.8	71.5	76.9	70.2	57.66	28.25
MEAN	3.73	5.20	4.59	4.89	3.47	5.28	3.56	2.31	2.56	2.26	1.86	.94
MAX	5.0	7.0	5.8	6.5	7.5	14	6.2	3.1	4.1	4.3	4.7	6.8
MIN	3.0	4.2	3.6	3.4	2.7	3.5	2.1	1.3	1.3	1.1	.27	.08
AC-FT	229	309	282	301	200	325	212	142	153	139	114	56

CAL YR 1975 TOTAL 14129.30 MEAN 38.7 MAX 1030 MIN 2.8 AC-FT 28030
WTR YR 1976 TOTAL 1241.11 MEAN 3.39 MAX 14 MIN .08 AC-FT 2460

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

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

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

WATER-DISCHARGE RECORDS

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

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

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

AVERAGE DISCHARGE.--15 years, 26.4 ft^3/s (0.748 m^3/s), 19,130 acre-ft/yr (23.6 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 72 ft^3/s (2.04 m^3/s) Feb. 29, gage height, 4.31 ft (1.314 m), no peak above base of 800 ft^3/s (23 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.81	2.2	1.5	1.5	1.5	10	1.2	.93	.15	.01	0	0
2	.68	1.9	1.6	1.5	1.4	9.8	1.2	1.0	.54	0	0	0
3	.78	1.9	1.6	1.5	1.4	7.6	1.4	.72	.21	0	0	0
4	.76	1.8	1.6	1.5	1.5	6.3	1.8	.94	.43	.04	0	0
5	.93	1.7	1.9	1.5	1.8	4.9	1.6	.94	.18	.48	0	0
6	.91	1.6	1.9	1.6	1.9	4.3	1.9	.86	.15	.07	0	0
7	.94	1.7	1.7	1.5	1.7	3.9	1.8	.94	.25	.07	0	0
8	.86	1.7	1.7	1.5	2.3	3.6	3.0	.66	.29	.05	0	0
9	.86	1.7	1.7	1.8	2.7	3.2	3.0	.66	.34	.04	0	0
10	14	1.9	1.7	1.9	2.1	2.9	2.8	.79	.29	.04	0	0
11	5.7	1.8	1.9	1.7	2.0	2.6	3.0	.66	.34	.03	0	0
12	3.0	1.7	2.2	1.7	1.9	2.4	3.7	.72	.15	.01	0	0
13	2.3	1.7	2.1	1.7	1.7	2.1	3.0	.34	.15	0	0	0
14	2.0	1.6	2.0	1.7	1.7	2.0	2.4	.34	.18	0	0	.01
15	1.6	1.6	1.7	1.7	1.7	1.9	2.2	.21	.03	0	0	0
16	1.7	1.6	1.7	1.7	1.9	1.9	2.0	.21	.15	0	.60	0
17	1.6	1.6	1.7	1.7	2.0	1.8	1.8	.34	.18	0	.18	.01
18	1.5	1.4	1.7	1.6	1.9	1.7	1.7	.18	.29	0	.18	.04
19	1.5	1.5	1.5	1.6	2.2	1.7	1.7	.59	.25	0	1.3	.04
20	1.5	1.5	1.5	1.6	2.1	1.4	1.3	.48	.29	0	1.3	.04
21	.94	1.6	1.5	1.5	2.0	1.4	1.2	.38	.29	0	.72	.03
22	1.5	1.6	2.0	1.5	1.7	1.3	1.2	.25	.25	0	.48	.02
23	1.5	1.5	1.7	1.6	1.7	1.2	.54	.43	.18	0	.29	0
24	1.4	1.6	1.6	1.6	1.6	1.3	.90	.43	.09	0	.21	0
25	1.5	1.6	1.6	1.6	1.6	1.3	.97	.25	.09	0	.18	.03
26	2.1	1.5	1.6	1.5	1.6	1.2	.82	.43	.05	0	.05	.01
27	2.7	1.6	1.6	1.3	1.6	1.1	.64	.15	.04	0	.02	.05
28	2.1	1.7	1.5	1.2	1.6	1.1	.49	.29	.02	0	.02	.54
29	1.9	1.7	1.5	1.3	17	1.2	.77	.15	.01	0	.01	2.1
30	5.2	1.7	1.5	1.3	---	1.2	.62	.09	.01	0	.01	1.6
31	3.1	---	1.5	1.4	---	1.3	---	.12	---	0	.01	---
TOTAL	67.87	50.2	52.5	48.3	67.8	89.6	50.65	15.48	5.87	.84	5.56	4.52
MEAN	2.19	1.67	1.69	1.56	2.34	2.89	1.69	.50	.20	.027	.18	.15
MAX	14	2.2	2.2	1.9	17	10	3.7	1.0	.54	.48	1.3	2.1
MIN	.68	1.4	1.5	1.2	1.4	1.1	.49	.09	.01	0	0	0
AC-FT	135	100	104	96	134	178	100	31	12	1.7	11	9.0

CAL YR 1975 TOTAL 8622.99 MEAN 23.6 MAX 537 MIN .23 AC-FT 17100
WTR YR 1976 TOTAL 459.19 MEAN 1.25 MAX 17 MIN 0 AC-FT 911

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to September 1976 (discontinued).
WATER TEMPERATURES: Water years 1966 to September 1976 (discontinued).
SEDIMENT RECORDS: Water years 1965 to September 1976 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1965 to September 1976 (discontinued).
SEDIMENT RECORDS: October 1965 to September 1976 (discontinued).

REMARKS.--Zero bedload discharge observed at flows less than 8.4 ft^3/s (0.24 m^3/s).

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,400 mg/L Jan. 21, 1967; minimum daily mean, 0 mg/L on many days in 1970-71, 1976.
SEDIMENT DISCHARGE: Maximum daily, 22,200 tons (20,100 tonnes) Jan. 21, 1967; minimum daily, 0 tons (0 tonnes) on many days each year.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 43 mg/L Oct. 6; minimum daily mean, 0 mg/L on many days.
SEDIMENT DISCHARGE: Maximum daily, 1.7 tons (1.54 tonnes) Oct. 6; minimum daily, 0 tons (0 tonnes) on many days.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.0	---	9.0	---	---	9.0	10.0	---	---		---	27.0
2	---	---	---	---	6.0	---	---	---	---		---	---
3	---	14.0	10.0	---	---	8.0	---	17.0	18.0		---	---
4	---	16.0	---	---	11.0	9.0	---	20.0	25.0		---	---
5	---	---	---	5.5	---	---	---	---	---		---	---
6	21.0	---	---	---	---	---	---	---	---		---	---
7	---	15.0	---	9.0	---	---	13.0	21.0	---		---	---
8	---	---	---	---	---	---	---	---	21.0		---	---
9	18.0	---	---	---	---	---	---	---	---		---	---
10	14.0	---	10.0	---	---	10.0	---	18.0	---		---	---
11	---	12.0	---	---	---	---	---	---	---		---	---
12	---	---	---	---	10.0	---	15.0	---	16.0		---	---
13	---	---	---	---	---	---	---	---	---		---	---
14	16.0	---	---	9.0	---	---	---	---	---		---	---
15	---	11.0	---	---	---	---	---	15.0	27.0		---	---
16	---	---	---	---	---	---	---	---	---		---	---
17	---	---	8.0	---	---	18.0	18.0	---	---		---	---
18	15.0	11.0	---	---	---	---	---	23.0	---		---	---
19	---	---	---	---	10.0	---	---	---	---		---	---
20	---	---	---	10.0	---	---	13.0	---	24.0		---	---
21	---	---	---	---	---	---	---	---	---		---	---
22	17.0	10.0	---	---	---	---	---	---	17.0		---	---
23	---	---	10.0	---	---	---	14.0	14.0	---		---	---
24	---	---	---	---	---	---	---	---	---		---	---
25	---	9.0	---	---	9.0	8.0	---	---	---		25.5	---
26	15.0	---	---	---	---	---	---	---	33.0		---	---
27	---	---	---	---	---	---	---	19.0	---		---	---
28	---	---	---	---	---	---	15.0	---	---		---	---
29	---	9.0	---	---	11.0	---	---	---	29.0		---	---
30	---	---	---	---	---	---	17.0	---	---		---	---
31	14.0	---	---	12.0	---	13.0	---	26.0	---		---	---
MONTH	---	---	---	---	---	---	---	---	---		---	---

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

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.81	3	.01	2.2	4	.02	1.5	1	0
2	.68	3	.01	1.9	3	.02	1.6	1	0
3	.78	3	.01	1.9	1	.01	1.6	2	.01
4	.76	2	0	1.8	1	0	1.6	2	.01
5	.93	2	.01	1.7	1	0	1.9	2	.01
6	.91	2	0	1.6	1	0	1.9	2	.01
7	.94	2	.01	1.7	3	.01	1.7	2	.01
8	.86	2	0	1.7	2	.01	1.7	2	.01
9	.86	2	0	1.7	1	0	1.7	2	.01
10	14	43	1.7	1.9	1	.01	1.7	2	.01
11	5.7	26	.40	1.8	1	0	1.9	2	.01
12	3.0	16	.13	1.7	1	0	2.2	2	.01
13	2.3	8	.05	1.7	1	0	2.1	2	.01
14	2.0	15	.08	1.6	1	0	2.0	2	.01
15	1.6	4	.02	1.6	1	0	1.7	2	.01
16	1.7	3	.01	1.6	1	0	1.7	2	.01
17	1.6	2	.01	1.6	1	0	1.7	2	.01
18	1.5	1	0	1.4	1	0	1.7	2	.01
19	1.5	1	0	1.5	1	0	1.5	2	.01
20	1.5	2	.01	1.5	1	0	1.5	2	.01
21	.94	2	.01	1.6	1	0	1.5	2	.01
22	1.5	3	.01	1.6	1	0	2.0	2	.01
23	1.5	3	.01	1.5	1	0	1.7	2	.01
24	1.4	4	.02	1.6	1	0	1.6	2	.01
25	1.5	5	.02	1.6	1	0	1.6	2	.01
26	2.1	5	.03	1.5	1	0	1.6	2	.01
27	2.7	5	.04	1.6	1	0	1.6	2	.01
28	2.1	5	.03	1.7	1	0	1.5	2	.01
29	1.9	5	.03	1.7	1	0	1.5	2	.01
30	5.2	13	.24	1.7	1	0	1.5	2	.01
31	3.1	5	.04	---	---	---	1.5	2	.01
MONTH	67.87	---	2.94	50.2	---	.08	52.5	---	.29

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.5	2	.01	1.5	2	.01	10	16	.43
2	1.5	2	.01	1.4	2	.01	9.8	14	.37
3	1.5	2	.01	1.4	1	0	7.6	11	.23
4	1.5	2	.01	1.5	1	0	6.3	11	.19
5	1.5	5	.02	1.8	1	0	4.9	7	.09
6	1.6	2	.01	1.9	1	.01	4.3	5	.06
7	1.5	1	0	1.7	2	.01	3.9	3	.03
8	1.5	1	0	2.3	2	.01	3.6	2	.02
9	1.8	1	0	2.7	2	.01	3.2	2	.02
10	1.9	1	.01	2.1	2	.01	2.9	2	.02
11	1.7	1	0	2.0	3	.02	2.6	2	.01
12	1.7	1	0	1.9	3	.02	2.4	2	.01
13	1.7	1	0	1.7	3	.01	2.1	3	.02
14	1.7	1	0	1.7	3	.01	2.0	3	.02
15	1.7	1	0	1.7	2	.01	1.9	3	.02
16	1.7	1	0	1.9	2	.01	1.9	3	.02
17	1.7	1	0	2.0	2	.01	1.8	4	.02
18	1.6	1	0	1.9	2	.01	1.7	4	.02
19	1.6	1	0	2.2	2	.01	1.7	3	.01
20	1.6	1	0	2.1	2	.01	1.4	3	.01
21	1.5	1	0	2.0	2	.01	1.4	3	.01
22	1.5	1	0	1.7	1	0	1.3	3	.01
23	1.6	1	0	1.7	1	0	1.2	2	.01
24	1.6	1	0	1.6	1	0	1.3	2	.01
25	1.6	1	0	1.6	1	0	1.3	2	.01
26	1.5	2	.01	1.6	1	0	1.2	2	.01
27	1.3	2	.01	1.6	1	0	1.1	2	.01
28	1.2	2	.01	1.6	1	0	1.1	2	.01
29	1.3	2	.01	17	23	2.6	1.2	2	.01
30	1.3	2	.01	---	---	---	1.2	2	.01
31	1.4	2	.01	---	---	---	1.3	2	.01
MONTH	48.3	---	.14	67.8	---	2.80	89.6	---	1.73

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

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.2	2	.01	.93	2	.01	.15	3	0
2	1.2	2	.01	1.0	1	0	.54	3	0
3	1.4	2	.01	.72	1	0	.21	4	0
4	1.8	1	0	.94	1	0	.43	11	.01
5	1.6	1	0	.94	2	.01	.18	5	0
6	1.9	1	.01	.86	3	.01	.15	3	0
7	1.8	1	0	.94	5	.01	.25	3	0
8	3.0	1	.01	.66	4	.01	.29	2	0
9	3.0	1	.01	.66	4	.01	.34	3	0
10	2.8	1	.01	.79	4	.01	.29	6	0
11	3.0	1	.01	.66	3	.01	.34	8	.01
12	3.7	1	.01	.72	3	.01	.15	13	.01
13	3.0	1	.01	.34	3	0	.15	14	.01
14	2.4	1	.01	.34	2	0	.18	15	.01
15	2.2	2	.01	.21	2	0	.03	16	0
16	2.0	2	.01	.21	2	0	.15	14	.01
17	1.8	2	.01	.34	2	0	.18	12	.01
18	1.7	2	.01	.18	2	0	.29	12	.01
19	1.7	2	.01	.59	3	0	.25	12	.01
20	1.3	2	.01	.48	3	0	.29	12	.01
21	1.2	2	.01	.38	3	0	.29	11	.01
22	1.2	3	.01	.25	3	0	.25	11	.01
23	.54	3	0	.43	3	0	.18	10	0
24	.90	3	.01	.43	3	0	.09	9	0
25	.97	2	.01	.25	4	0	.09	8	0
26	.82	2	0	.43	4	0	.05	8	0
27	.64	2	0	.15	5	0	.04	8	0
28	.49	2	0	.29	4	0	.02	8	0
29	.77	2	0	.15	3	0	.01	8	0
30	.62	2	0	.09	3	0	.01	8	0
31	---	---	---	.12	3	0	---	---	---
MONTH	50.65	---	.21	15.48	---	.09	5.87	---	.12

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.01	6	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	.04	6	0	0	0	0	0	0	0
5	.48	8	.01	0	0	0	0	0	0
6	.07	7	0	0	0	0	0	0	0
7	.07	7	0	0	0	0	0	0	0
8	.05	5	0	0	0	0	0	0	0
9	.04	5	0	0	0	0	0	0	0
10	.04	4	0	0	0	0	0	0	0
11	.03	3	0	0	0	0	0	0	0
12	.01	2	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	.01	1	0
15	0	0	0	0	0	0	0	0	0
16	0	0	0	.60	5	.01	0	0	0
17	0	0	0	.18	4	0	.01	1	0
18	0	0	0	.18	2	0	.04	1	0
19	0	0	0	1.3	8	.03	.04	1	0
20	0	0	0	1.3	6	.02	.04	1	0
21	0	0	0	.72	5	.01	.03	1	0
22	0	0	0	.48	4	.01	.02	1	0
23	0	0	0	.29	3	0	0	0	0
24	0	0	0	.21	2	0	0	0	0
25	0	0	0	.18	1	0	.03	1	0
26	0	0	0	.05	1	0	.01	1	0
27	0	0	0	.02	1	0	.05	1	0
28	0	0	0	.02	1	0	.54	5	.01
29	0	0	0	.01	1	0	2.1	6	.03
30	0	0	0	.01	1	0	1.6	5	.02
31	0	0	0	.01	1	0	---	---	---
MONTH	.84	---	.01	5.56	---	.08	4.52	---	.06
YEAR	459.19		8.55						

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

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1975	67.87	2.94	0	3
NOVEMBER ...	50.20	0.08	0	0
DECEMBER ...	52.50	0.29	0	0
JANUARY 1976	48.30	0.14	0	0
FEBRUARY ...	67.80	2.80	0	3
MARCH	89.60	1.73	0	2
APRIL	50.65	0.21	0	0
MAY	15.48	0.09	0	0
JUNE	5.87	0.12	0	0
JULY	0.84	0.01	0	0
AUGUST	5.56	0.08	0	0
SEPTEMBER ..	4.52	0.06	0	0
TOTAL	459.19	8.55	0	8

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
FEB 29...	1715	11.0	71	80	15	97	98	100

11154100 BODFISH CREEK NEAR GILROY, CA

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

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

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

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

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

AVERAGE DISCHARGE.--17 years, 3.63 ft^3/s (0.103 m^3/s), 2,630 acre-ft/yr (3.24 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9.9 ft^3/s (0.28 m^3/s) Feb. 29, gage height, 2.81 ft (0.856 m), no peak above base of 150 ft^3/s (4.2 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	.36	.18	.20	.16	1.5	.08	.05	.03			0
2	.05	.25	.18	.20	.15	2.9	.08	.07	.02			0
3	.04	.19	.21	.20	.14	4.6	.08	.07	.02			0
4	.04	.20	.21	.20	.18	2.0	.08	.07	.02			0
5	.03	.21	.21	.20	.21	.86	.07	.07	.02			0
6	.04	.21	.21	.20	.21	.67	.07	.07	.03			0
7	.10	.21	.21	.20	.18	1.1	.05	.05	.02			0
8	.10	.21	.21	.21	.25	.67	.18	.05	.03			0
9	.35	.21	.25	.25	.25	.52	.12	.05	.03			0
10	1.1	.29	.25	.25	.21	.52	.15	.05	.04			0
11	.32	.21	.25	.25	.18	.52	.18	.04	.04			0
12	.20	.21	.25	.25	.18	.52	.15	.03	.03			0
13	.15	.21	.25	.21	.18	.39	.12	.03	.02			0
14	.13	.18	.25	.21	.21	.39	.10	.03	.02			0
15	.12	.18	.25	.21	.21	.39	.08	.03	0			0
16	.12	.18	.25	.19	.21	.34	.07	.04	0			0
17	.12	.21	.25	.18	.21	.34	.07	.04	0			0
18	.12	.18	.25	.18	.21	.39	.05	.04	.01			0
19	.11	.18	.34	.18	.29	.39	.05	.04	.01			0
20	.11	.18	.29	.18	.25	.29	.05	.04	.01			0
21	.11	.18	.25	.18	.21	.29	.04	.05	.01			0
22	.11	.18	.25	.18	.21	.29	.05	.05	0			0
23	.11	.18	.23	.18	.21	.29	.05	.05	0			0
24	.11	.21	.20	.18	.21	.25	.07	.05	0			0
25	.12	.18	.20	.18	.21	.25	.07	.05	0			0
26	.90	.18	.20	.18	.21	.25	.07	.04	0			0
27	.80	.18	.20	.18	.21	.21	.07	.03	0			0
28	.40	.21	.20	.18	.21	.21	.08	.03	0			0
29	.22	.18	.20	.18	2.6	.21	.08	.04	0			0
30	.79	.18	.20	.18	---	.12	.05	.04	0			.29
31	.54	---	.20	.18	---	.08	---	.03	---			---
TOTAL	7.62	6.12	7.08	6.13	8.35	21.75	2.51	1.42	.41	0	0	.29
MEAN	.25	.20	.23	.20	.29	.70	.084	.046	.014	0	0	.010
MAX	1.1	.36	.34	.25	2.6	4.6	.18	.07	.04	0	0	.29
MIN	.03	.18	.18	.18	.14	.08	.04	.03	0	0	0	0
AC-FT	15	12	14	12	17	43	5.0	2.8	.8	0	0	.6

CAL YR 1975	TOTAL 896.27	MEAN 2.46	MAX 69	MIN .02	AC-FT 1780			
WTR YR 1976	TOTAL 61.68	MEAN .17	MAX 4.6	MIN 0	AC-FT 122			

11154200 UVAS CREEK NEAR GILROY, CA

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

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

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

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

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

AVERAGE DISCHARGE.--17 years, 35.5 ft^3/s (1.005 m^3/s), 25,720 acre-ft/yr (31.7 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1.4 ft^3/s (0.040 m^3/s) Oct. 13, gage height, 1.88 ft (0.573 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0											
2	0											
3	0											
4	0											
5	0											
6	0											
7	0											
8	0											
9	0											
10	0											
11	.26											
12	.69											
13	.87											
14	.81											
15	.81											
16	.64											
17	.11											
18	0											
19	0											
20	0											
21	0											
22	0											
23	0											
24	0											
25	0											
26	0											
27	0											
28	0											
29	0											
30	0				---							
31	0	---			---		---		---			---
TOTAL	4.19	0	0	0	0	0	0	0	0	0	0	0
MEAN	.14	0	0	0	0	0	0	0	0	0	0	0
MAX	.87	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	8.3	0	0	0	0	0	0	0	0	0	0	0

CAL YR 1975 TOTAL 7096.86 MEAN 19.4 MAX 1180 MIN 0 AC-FT 14080
WTR YR 1976 TOTAL 4.19 MEAN .01 MAX .87 MIN 0 AC-FT 8

11156500 SAN BENITO RIVER NEAR WILLOW CREEK SCHOOL, CA

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

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

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

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

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

REMARKS.--Records poor. Flow regulated by Hernandez Reservoir 40 mi (64 km) upstream beginning in December 1961, capacity, 18,700 acre-ft (23.1 hm^3). Small diversion above station for irrigation.

AVERAGE DISCHARGE.--37 years, 23.9 ft^3/s (0.677 m^3/s), 17,320 acre-ft/yr (21.4 hm^3/yr).

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

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 106 ft^3/s (3.00 m^3/s) Sept. 30, gage height, 4.52 ft (1.378 m), from outside high-water mark; minimum daily, 0.13 ft^3/s (0.004 m^3/s) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	23	8.8	4.1	2.2	4.5	1.5	7.3	.42	.26	.23	.16
2	44	23	7.6	4.1	2.2	7.4	1.2	5.1	.42	.26	.23	.15
3	43	23	6.9	3.9	2.0	10	1.3	3.9	.42	.26	.23	.15
4	42	23	6.6	3.9	2.0	6.4	1.7	3.6	.42	.25	.22	.16
5	41	23	6.5	3.9	2.4	5.6	2.0	3.1	.42	.23	.22	.15
6	41	23	6.3	3.7	2.7	5.2	2.0	3.0	.43	.23	.22	.16
7	42	23	6.2	3.6	2.7	5.0	1.8	3.0	.42	.22	.22	.15
8	39	22	5.9	3.6	3.5	4.6	2.8	2.7	.41	.25	.22	.14
9	29	22	5.7	3.6	4.9	4.2	5.3	2.2	.41	.25	.22	.13
10	29	23	5.7	3.6	4.3	4.1	4.5	1.8	.42	.24	.21	.24
11	29	22	5.6	3.5	3.3	3.9	4.5	1.5	.39	.25	.22	.22
12	29	22	5.8	3.5	3.2	3.5	4.5	1.2	.37	.25	.22	.19
13	29	22	5.8	3.5	3.1	3.2	4.3	.86	.34	.24	.23	.19
14	29	22	5.5	3.3	3.1	3.2	4.5	.70	.34	.25	.26	.16
15	29	22	5.4	3.3	3.2	2.9	3.9	.71	.31	.25	.25	.19
16	29	22	5.4	3.3	3.2	2.7	3.8	.68	.29	.26	.24	.19
17	29	22	5.2	3.2	3.5	2.5	3.4	.69	.30	.26	.22	.19
18	29	22	5.1	3.1	3.3	2.3	3.1	.68	.30	.26	.24	.16
19	29	23	5.1	3.0	3.5	2.2	2.8	.67	.30	.25	.52	.16
20	29	22	5.1	3.0	3.7	2.2	2.4	.65	.30	.25	.24	.16
21	27	22	4.8	3.0	3.4	2.1	2.0	.63	.29	.25	.24	.16
22	26	22	4.8	2.9	3.2	2.1	1.7	.60	.28	.24	.22	.16
23	25	20	4.6	2.9	3.3	2.1	26	.57	.25	.24	.20	.16
24	25	17	4.6	2.8	3.3	2.0	41	.56	.23	.23	.19	.16
25	25	14	4.6	2.6	3.4	1.9	45	.53	.22	.22	.19	.16
26	25	12	4.6	2.6	3.4	1.8	48	.48	.24	.22	.18	.19
27	25	12	4.6	2.6	3.3	1.8	49	.45	.22	.22	.18	.19
28	25	13	4.3	2.6	3.4	1.8	34	.44	.21	.20	.17	2.4
29	25	12	4.2	2.4	3.7	1.6	20	.45	.23	.20	.17	13
30	23	10	4.2	2.4	---	1.6	11	.45	.25	.21	.16	27
31	23	---	4.1	2.3	---	1.5	---	.46	---	.23	.16	---
TOTAL	958	603	169.6	99.8	92.4	105.9	339.0	49.66	9.85	7.43	6.92	46.98
MEAN	30.9	20.1	5.47	3.22	3.19	3.42	11.3	1.60	.33	.24	.22	1.57
MAX	44	23	8.8	4.1	4.9	10	49	7.3	.43	.26	.52	27
MIN	23	10	4.1	2.3	2.0	1.5	1.2	.44	.21	.20	.16	.13
AC-FT	1900	1200	336	198	183	210	672	99	20	15	14	93

CAL YR 1975 TOTAL 11525.00 MEAN 31.6 MAX 428 MIN 3.9 AC-FT 22860
WTR YR 1976 TOTAL 2488.54 MEAN 6.80 MAX 49 MIN .13 AC-FT 4940

NOTE.--No gage-height record Sept. 29, 30.

11157500 TRES PINOS CREEK NEAR TRES PINOS, CA

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

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

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

REVISED RECORDS.--WSP 1715: Drainage area.

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

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

AVERAGE DISCHARGE (unadjusted).--37 years, 13.3 ft^3/s (0.377 m^3/s), 9,640 acre-ft/yr (11.9 hm^3/yr).

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

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 586 ft^3/s (16.6 m^3/s) Sept. 30 (1700 hrs), gage height, 6.18 ft (1.884 m), from high-water marks, from rating curve extended above 17 ft^3/s (0.48 m^3/s) on basis of slope-area measurement at gage height 9.49 ft (2.893 m), peak above base of 450 ft^3/s (13 m^3/s); minimum daily, 1.1 ft^3/s (0.031 m^3/s) Aug. 6, 16, 17, 25-58, 30, 31, Sept. 1, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	3.0	3.0	3.0	2.8	2.5	3.3	2.2	1.7	1.4	1.3	1.1
2	9.8	3.0	3.0	2.8	2.8	2.5	1.9	2.3	1.7	1.4	1.3	1.2
3	11	3.0	3.0	2.8	2.7	2.4	1.9	2.2	1.8	1.4	1.3	1.3
4	13	3.0	3.0	2.8	2.6	2.4	3.0	2.2	1.7	1.4	1.3	1.3
5	12	3.0	2.8	2.8	2.6	2.5	2.0	2.2	2.0	1.6	1.3	1.3
6	10	3.0	2.9	2.8	2.6	2.6	1.9	2.3	2.2	1.6	1.1	1.3
7	10	2.8	2.9	2.8	2.7	2.7	2.0	2.3	2.1	1.5	1.2	1.3
8	11	2.8	3.0	2.8	2.8	2.6	2.1	2.4	1.9	1.6	1.2	1.3
9	11	2.8	2.9	2.9	2.7	2.7	2.1	2.4	1.9	1.6	1.2	1.3
10	10	2.8	3.0	2.9	2.6	2.6	2.1	2.2	1.9	1.6	1.2	1.3
11	3.0	2.8	3.0	2.9	2.7	2.5	2.2	2.2	2.0	1.7	1.2	1.4
12	3.0	2.8	3.0	2.9	2.7	2.5	2.2	2.3	1.9	1.7	1.2	1.4
13	2.8	2.8	2.8	2.8	2.7	2.5	2.3	2.1	1.8	1.6	1.2	1.4
14	2.8	2.8	2.9	2.8	2.8	2.5	2.2	2.1	1.7	1.7	1.2	1.2
15	3.0	2.8	3.0	2.8	2.7	2.5	2.3	2.0	1.6	1.7	1.2	1.2
16	3.0	2.8	2.9	3.0	2.8	2.5	2.3	1.9	1.6	1.7	1.1	1.2
17	3.0	2.8	3.0	3.0	2.9	2.5	2.3	2.0	1.6	1.6	1.1	1.2
18	3.0	2.8	3.0	3.0	2.9	2.4	2.3	2.0	1.6	1.6	1.2	1.2
19	3.0	2.8	3.0	3.0	2.8	2.4	2.3	2.1	1.7	1.5	1.5	1.2
20	3.0	2.8	3.0	3.0	2.6	2.4	2.1	2.0	1.7	1.4	1.2	1.2
21	3.0	2.9	3.0	3.0	2.6	2.5	2.1	1.9	1.7	1.4	1.2	1.2
22	3.0	2.9	3.0	3.0	2.5	2.3	2.0	1.8	1.5	1.3	1.2	1.2
23	3.0	2.9	3.2	2.8	2.4	2.3	2.1	1.8	1.4	1.3	1.2	1.2
24	3.0	2.9	3.2	2.8	2.4	2.1	2.1	1.8	1.4	1.3	1.2	1.2
25	3.0	2.9	3.2	2.9	2.4	2.1	2.1	1.9	1.3	1.3	1.1	1.2
26	3.0	2.9	3.2	2.8	2.4	2.2	2.1	1.7	1.4	1.4	1.1	1.2
27	3.0	2.9	3.0	2.8	2.4	2.3	2.0	1.7	1.4	1.3	1.1	1.1
28	3.0	3.0	3.0	2.8	2.4	2.3	2.1	1.7	1.4	1.2	1.1	2.0
29	3.0	3.0	3.0	2.8	2.5	2.3	2.0	1.7	1.4	1.2	1.2	2.0
30	3.0	3.0	3.0	2.8	---	2.3	2.1	1.8	1.4	1.2	1.1	50
31	3.0	---	3.0	2.8	---	2.2	---	2.0	---	1.2	1.1	---
TOTAL	170.2	86.5	92.9	88.9	76.5	75.1	65.5	63.2	50.4	45.4	37.1	87.6
MEAN	5.49	2.88	3.00	2.87	2.64	2.42	2.18	2.04	1.68	1.46	1.20	2.92
MAX	13	3.0	3.2	3.0	2.9	2.7	3.3	2.4	2.2	1.7	1.5	50
MIN	2.8	2.8	2.8	2.8	2.4	2.1	1.9	1.7	1.3	1.2	1.1	1.1
AC-FT	338	172	184	176	152	149	130	125	100	90	74	174

CAL YR 1975 TOTAL 5257.06 MEAN 14.4 MAX 1100 MIN .84 AC-FT 10430
WTR YR 1976 TOTAL 939.30 MEAN 2.57 MAX 50 MIN 1.1 AC-FT 1860

11158500 SAN BENITO RIVER NEAR HOLLISTER, CA

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

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

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

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

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

AVERAGE DISCHARGE.--27 years, 28.5 ft^3/s (0.807 m^3/s), 20,650 acre-ft/yr (25.5 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 37 ft^3/s (1.05 m^3/s) Oct. 9, gage height, 4.88 ft (1.487 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	18	17	6.6	3.0	9.2	1.3	2.5	.01			0
2	23	16	14	6.3	2.1	10	.88	.72	.01			0
3	21	15	13	6.3	2.0	14	1.5	.35	.01			0
4	17	15	13	6.3	2.3	15	2.3	.27	.01			0
5	16	13	13	6.3	3.3	11	2.8	.27	.01			0
6	15	13	12	6.6	3.9	8.5	2.1	.65	.01			0
7	16	12	12	6.1	4.4	7.2	2.1	.88	.01			0
8	25	11	12	6.1	5.0	6.3	2.5	.65	.01			0
9	36	11	10	6.6	9.2	6.1	2.3	.27	.01			0
10	29	11	8.8	6.9	9.2	5.3	2.0	.23	.01			0
11	26	11	8.8	6.6	8.2	3.9	3.0	.19	.01			0
12	19	11	8.5	6.3	6.3	3.5	3.5	.16	.01			0
13	18	11	7.2	7.2	5.3	3.3	2.8	.13	.01			0
14	18	11	6.6	7.2	4.1	3.9	3.3	.13	0			0
15	17	11	6.1	6.3	3.7	4.1	3.1	.13	0			0
16	17	11	6.3	6.1	3.9	3.0	2.8	.19	0			0
17	17	11	6.1	6.3	5.0	2.8	2.1	.19	0			0
18	17	9.6	5.3	6.6	4.8	2.5	2.0	.19	0			0
19	17	9.6	5.5	6.3	4.6	3.1	1.6	.13	0			0
20	17	9.9	5.5	5.5	3.7	3.3	1.1	.11	0			0
21	17	21	5.5	5.5	3.3	3.3	.80	.11	0			0
22	16	26	5.5	4.8	3.7	3.3	.72	.13	0			0
23	15	27	6.3	4.1	3.7	3.3	.52	.09	0			0
24	15	27	6.9	3.7	3.7	2.6	.52	.13	0			0
25	15	23	6.9	3.3	3.5	2.0	7.2	.11	0			0
26	15	20	6.6	3.5	3.3	1.2	14	.09	0			0
27	17	19	6.6	3.9	3.1	1.4	18	.03	0			0
28	16	19	6.6	3.5	3.5	1.2	10	.03	0			0
29	16	20	6.3	3.5	4.8	1.7	5.3	.03	0			.01
30	19	19	6.3	4.1	---	2.0	4.1	.02	0			.06
31	20	---	6.3	3.9	---	1.7	---	.02	---			---
TOTAL	585	462.1	260.5	172.3	126.6	149.7	106.24	9.13	.13	0	0	.07
MEAN	18.9	15.4	8.40	5.56	4.37	4.83	3.54	.29	.004	0	0	.002
MAX	36	27	17	7.2	9.2	15	18	2.5	.01	0	0	.06
MIN	15	9.6	5.3	3.3	2.0	1.2	.52	.02	0	0	0	0
AC-FT	1160	917	517	342	251	297	211	18	.3	0	0	.1

CAL YR 1975 TOTAL 14643.90 MEAN 40.1 MAX 1980 MIN 2.1 AC-FT 29050
WTR YR 1976 TOTAL 1871.77 MEAN 5.11 MAX 36 MIN 0 AC-FT 3710

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

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

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

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

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

REMARKS.--Records poor. Flow regulated by Hernandez Reservoir 73 mi (117 km) upstream, capacity, 18,700 acre-ft (23.1 hm^3). Some small diversions above station for irrigation.

AVERAGE DISCHARGE.--6 years, 17.8 ft^3/s (0.504 m^3/s), 12,900 acre-ft/yr (15.9 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 49 ft^3/s (1.39 m^3/s) Oct. 11, gage height, 2.71 ft (0.826 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	7.7	9.7	0	0	0	.09					
2	4.6	5.8	7.6	0	0	.88	0					
3	4.3	5.6	4.9	0	0	2.3	0					
4	4.0	4.0	3.9	0	0	4.4	0					
5	3.8	3.1	3.5	0	0	2.6	0					
6	3.6	2.3	2.9	0	0	.74	0					
7	4.7	1.8	2.9	0	0	.08	0					
8	9.6	1.2	3.0	0	0	0	.06					
9	25	.65	2.5	0	0	0	0					
10	28	1.1	1.1	0	.03	0	0					
11	30	1.3	.69	0	.62	0	0					
12	13	1.3	.82	0	.03	0	0					
13	6.7	1.1	.24	0	0	0	0					
14	5.9	.89	0	.09	0	0	0					
15	5.6	.66	0	0	0	0	0					
16	5.3	.48	0	0	0	0	0					
17	4.9	.74	0	0	0	0	0					
18	4.7	.66	0	0	0	0	0					
19	4.6	.66	0	0	0	0	0					
20	4.6	.87	0	0	0	0	0					
21	4.6	3.7	0	0	0	0	0					
22	4.8	12	0	0	0	0	0					
23	4.9	14	0	0	0	0	0					
24	5.0	15	0	0	0	.09	0					
25	5.0	12	0	0	0	.15	0					
26	5.2	8.9	0	0	0	.12	0					
27	7.3	9.4	0	0	0	0	0					
28	5.9	9.5	0	0	0	0	0					
29	5.9	8.6	0	0	0	0	0					
30	7.9	11	0	0	---	.07	0					
31	11	---	0	0	---	.08	---		---			---
TOTAL	245.0	146.01	43.75	.09	.68	11.51	.15	0	0	0	0	0
MEAN	7.90	4.87	1.41	.003	.023	.37	.005	0	0	0	0	0
MAX	30	15	9.7	.09	.62	4.4	.09	0	0	0	0	0
MIN	3.6	.48	0	0	0	0	0	0	0	0	0	0
AC-FT	486	290	87	.2	1.3	23	.3	0	0	0	0	0

CAL YR 1975 TOTAL 7743.49 MEAN 21.2 MAX 1000 MIN 0 AC-FT 15360
WTR YR 1976 TOTAL 447.19 MEAN 1.22 MAX 30 MIN 0 AC-FT 887

11158900 PESCADERO CREEK NEAR CHITTENDEN, CA

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

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

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

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

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

AVERAGE DISCHARGE.--6 years, 3.34 ft^3/s (0.095 m^3/s), 2,420 acre-ft/yr (2.98 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3.9 ft^3/s (0.11 m^3/s) Feb. 29, gage height, 3.99 ft (1.216 m), no peak above base of 70 ft^3/s (2.0 m^3/s); maximum gage height, 4.02 ft (1.225 m) Jan. 9; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.14	.35	.30	.33	.30	1.6	.25	.08	.08			
2	.14	.24	.34	.33	.30	1.6	.26	.09	.04			
3	.10	.21	.34	.33	.30	1.4	.34	.12	.02			
4	.06	.21	.34	.33	.48	.66	.42	.16	.01			
5	.04	.23	.34	.34	.64	.48	.34	.17	.01			
6	.07	.22	.34	.33	.42	.38	.30	.15	.01			
7	.14	.22	.34	.33	.34	.34	.25	.13	.01			
8	.14	.22	.41	.35	.52	.34	.38	.16	.01			
9	.15	.22	.41	.39	.59	.34	.26	.17	.01			
10	1.2	.30	.41	.42	.40	.34	.33	.17	.02			
11	.56	.25	.41	.38	.34	.34	.34	.14	.04			
12	.28	.24	.50	.37	.34	.29	.28	.08	.02			
13	.20	.24	.50	.36	.35	.22	.26	.04	.01			
14	.18	.24	.41	.35	.40	.22	.25	.04	0			
15	.17	.24	.36	.34	.41	.22	.18	.05	0			
16	.16	.24	.33	.33	.37	.22	.16	.06	0			
17	.17	.22	.33	.32	.38	.22	.16	.11	0			
18	.16	.24	.33	.34	.34	.27	.16	.12	0			
19	.17	.26	.32	.34	.63	.24	.16	.13	0			
20	.15	.22	.30	.31	.51	.22	.16	.13	0			
21	.17	.22	.35	.31	.42	.22	.17	.16	0			
22	.15	.24	.75	.29	.41	.24	.13	.20	0			
23	.13	.23	.41	.30	.41	.27	.13	.18	0			
24	.13	.25	.35	.30	.36	.27	.12	.18	0			
25	.11	.25	.33	.30	.34	.27	.11	.19	0			
26	1.0	.27	.33	.31	.34	.27	.11	.17	0			
27	.76	.32	.34	.29	.33	.33	.12	.17	0			
28	.32	.34	.34	.29	.34	.34	.14	.15	0			
29	.24	.31	.34	.29	1.5	.40	.10	.14	0			
30	.86	.27	.34	.30	---	.27	.09	.14	0			
31	.52	---	.33	.30	---	.25	---	.16	---			---
TOTAL	8.77	7.51	11.57	10.20	12.81	13.07	6.46	4.14	.29	0	0	0
MEAN	.28	.25	.37	.33	.44	.42	.22	.13	.010	0	0	0
MAX	1.2	.35	.75	.42	1.5	1.6	.42	.20	.08	0	0	0
MIN	.04	.21	.30	.29	.30	.22	.09	.04	0	0	0	0
AC-FT	17	15	23	20	25	26	13	8.2	.6	0	0	0
(†)	2.61	.21	.13	.22	2.05	1.09	.84	0	0	0	.64	1.91

CAL YR 1975 TOTAL 791.70 MEAN 2.17 MAX 41 MIN .03 AC-FT 1570
WTR YR 1976 TOTAL 74.82 MEAN .20 MAX 1.6 MIN 0 AC-FT 148

† Precipitation, in inches.

11159000 PAJARO RIVER AT CHITTENDEN, CA

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

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

WATER-DISCHARGE RECORDS

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

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

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

AVERAGE DISCHARGE.--37 years, 143 ft^3/s (4.050 m), 103,600 acre-ft/yr (128 hm^3/yr).

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

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 104 ft^3/s (2.95 m^3/s) Feb. 29, gage height, 2.10 ft (0.640 m), from outside high-water mark; minimum daily, 0.03 ft^3/s (0.001 m^3/s) Aug. 31, Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	6.6	9.5	10	4.6	27	12	2.1	1.8	.43	11	.03
2	5.1	6.6	9.5	9.7	6.0	30	7.4	2.1	2.2	.37	11	.05
3	4.5	6.6	9.2	10	7.6	32	10	2.5	2.5	.31	9.7	.07
4	4.2	7.4	9.7	13	7.6	13	14	4.2	2.2	.37	6.6	.23
5	3.9	7.0	9.7	12	7.6	9.2	10	3.6	1.5	.80	6.6	.24
6	3.9	7.0	8.7	10	7.0	7.4	11	3.1	1.7	.31	6.6	.53
7	4.8	7.0	7.8	9.2	7.1	7.0	7.8	2.1	2.1	.18	4.8	.24
8	5.1	7.0	8.7	9.2	7.4	6.6	7.4	1.9	1.5	.15	1.8	.10
9	4.8	7.0	9.2	8.7	7.4	7.0	6.2	2.1	2.8	.15	1.8	.08
10	7.4	7.8	8.7	9.7	6.2	6.6	6.6	1.9	2.5	.69	3.9	.15
11	7.4	7.8	8.2	11	5.1	5.8	7.8	1.3	4.8	2.5	6.4	.31
12	6.6	7.0	8.7	8.2	5.1	5.8	6.2	1.0	8.7	1.9	6.4	.31
13	5.8	7.4	9.7	8.2	5.1	7.0	5.8	1.5	9.7	.80	5.9	.37
14	4.5	7.4	11	8.2	5.5	6.6	6.2	2.8	9.2	1.9	4.9	.37
15	4.2	7.4	11	7.4	6.2	7.0	5.8	2.8	5.1	1.2	3.7	.43
16	4.2	7.8	11	7.0	6.2	5.5	4.8	2.8	3.9	4.2	2.1	.43
17	4.8	8.2	12	7.0	6.4	5.5	4.2	2.8	6.2	9.2	1.7	.37
18	4.5	9.2	12	7.4	6.6	5.5	3.6	2.6	12	9.7	2.6	.31
19	4.5	10	10	6.6	7.0	5.8	3.1	2.9	11	4.5	4.9	.31
20	4.5	11	9.7	6.6	7.1	5.1	3.3	2.8	5.5	1.7	6.1	.31
21	4.2	12	14	6.2	7.3	4.8	4.5	2.6	5.8	1.0	5.6	.26
22	4.8	13	14	5.8	8.1	5.1	4.5	2.8	5.1	.69	2.5	.69
23	4.8	12	9.7	5.7	8.9	4.5	3.9	2.5	5.1	.92	.70	1.2
24	4.2	11	8.2	5.5	9.3	4.8	3.9	2.0	3.9	.92	.20	1.3
25	4.2	12	8.2	5.0	9.6	4.5	3.3	2.9	3.3	.69	.09	1.3
26	6.2	13	8.7	5.0	10	4.8	3.1	3.0	3.1	2.5	.06	1.5
27	7.4	14	9.7	5.0	11	5.8	3.3	3.4	2.5	2.5	.08	1.7
28	5.8	13	11	4.5	9.2	6.2	2.8	2.8	1.7	3.9	.06	1.7
29	5.1	12	11	4.2	15	5.5	2.5	1.8	1.2	19	.05	3.3
30	7.8	11	10	4.2	---	5.8	3.1	1.6	.31	31	.04	7.4
31	7.8	---	9.7	4.0	---	7.8	---	2.0	---	18	.03	---
TOTAL	162.1	276.2	308.2	234.2	217.2	265.0	178.1	76.3	128.91	122.48	117.91	25.59
MEAN	5.23	9.21	9.94	7.55	7.49	8.55	5.94	2.46	4.30	3.95	3.80	.85
MAX	7.8	14	14	13	15	32	14	4.2	12	31	11	7.4
MIN	3.9	6.6	7.8	4.0	4.6	4.5	2.5	1.0	.31	.15	.03	.03
AC-FT	322	548	611	465	431	526	353	151	256	243	234	51

CAL YR 1975 TOTAL 33528.60 MEAN 91.9 MAX 2300 MIN 3.2 AC-FT 66500
WTR YR 1976 TOTAL 2112.19 MEAN 5.77 MAX 32 MIN .03 AC-FT 4190

NOTE.--No gage-height record Feb. 15 to Mar. 4.

11159000 PAJARO RIVER AT CHITTENDEN, CA--Continued

WATER-QUALITY RECORDS

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
DEC 16...	1100	11	1090	8.1	6.0	10.9	--	--	480	86	85
FEB 09...	1130	7.4	1830	7.9	11.0	9.8	--	--	650	220	99
MAR 17...	1100	5.5	1550	8.2	16.5	9.1	15	1.3	530	150	83
JUN 16...	0830	4.2	--	8.0	18.5	7.6	--	--	650	220	84
SEP 21...	0930	.37	2400	8.1	15.0	11.3	--	--	670	230	110

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
DEC 16...	--	100	--	--	--	480	0	394	180	110	847
FEB 09...	98	250	45	4.3	2.5	520	0	427	430	220	1400
MAR 17...	77	140	--	2.7	--	460	0	377	260	130	944
JUN 16...	110	280	--	4.7	--	530	--	435	470	250	1540
SEP 21...	94	430	--	7.3	--	540	0	443	200	660	1780

DATE	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (P04) (MG/L)	DISSOLVED BORON (B) (UG/L)
DEC 16...	1.15	25.2	--	--	--	--	--	--	--	--	500
FEB 09...	1.90	28.0	3.8	--	--	--	--	--	--	--	800
MAR 17...	1.28	14.0	--	2.1	.03	.11	.40	.20	.04	.12	--
JUN 16...	--	17.5	--	--	--	--	--	--	--	--	--
SEP 21...	2.42	1.78	--	--	--	--	--	--	--	--	--

11159200 CORRALITOS CREEK AT FREEDOM, CA

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

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

WATER-DISCHARGE RECORDS

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

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

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

AVERAGE DISCHARGE.--20 years, 14.1 ft^3/s (0.399 m^3/s), 10,220 acre-ft/yr (12.6 hm^3/yr).

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

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 168 ft^3/s (4.76 m^3/s) Feb. 29, gage height, 3.58 ft (1.091 m), no peak above base of 600 ft^3/s (17 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	4.5	.12	2.6	.09	15	.12	0		0		
2	.06	3.9	.09	1.9	.09	12	.12	0		0		
3	.06	.59	.12	1.3	.09	9.3	.51	0		0		
4	.06	.15	.15	.82	.15	6.8	.24	0		0		
5	.06	.15	.24	.55	.15	5.4	.68	.28		0		
6	.06	.15	.30	.35	.09	2.5	2.0	.01		0		
7	.06	.12	.59	.20	.09	1.9	2.6	0		0		
8	.06	.12	.89	.20	.43	1.6	11	0		0		
9	2.1	.12	.68	.32	.15	1.1	6.9	.04		0		
10	47	.95	.68	.20	.12	.68	3.0	.01		.70		
11	19	.89	.68	.12	.09	.51	8.7	0		0		
12	9.3	.51	.59	.15	.08	.36	18	0		0		
13	6.5	.51	.68	.20	.12	.30	11	0		0		
14	5.1	.43	1.3	.20	.24	.30	6.8	0		0		
15	2.1	.51	.89	.51	.51	.30	.64	0		0		
16	1.1	.24	.43	.68	.81	.30	.14	0		0		
17	.68	.20	.36	.99	1.6	.30	.09	0		0		
18	.78	.12	.30	1.9	.89	.43	.08	0		0		
19	.78	.12	.24	1.4	.68	.30	.05	0		0		
20	.78	.12	.24	.90	.78	.30	.03	0		0		
21	.78	.43	.30	.68	.78	.36	.05	0		0		
22	.78	.51	.36	.49	.78	.36	.04	0		0		
23	.78	.30	.68	.33	.78	.30	.02	0		0		
24	.78	.16	.51	.25	.78	.30	.01	0		0		
25	.78	.16	.24	.18	.78	.30	0	0		0		
26	3.4	.17	.20	.13	.78	.30	0	0		0		
27	4.8	.36	.68	.09	.78	.24	0	0		0		
28	1.7	1.1	1.1	.09	.78	.15	0	0		0		
29	1.7	.36	1.1	.09	33	.12	0	0		0		
30	23	.24	1.2	.09	---	.12	0	0		0		
31	7.6	---	1.7	.09	---	.12	---	0	---	0		---
TOTAL	141.80	18.19	17.64	18.00	46.49	62.35	72.82	.34	0	.70	0	0
MEAN	4.57	.61	.57	.58	1.60	2.01	2.43	.011	0	.023	0	0
MAX	47	4.5	1.7	2.6	33	15	18	.28	0	.70	0	0
MIN	.06	.12	.09	.09	.08	.12	0	0	0	0	0	0
AC-FT	281	36	35	36	92	124	144	.7	0	1.4	0	0

CAL YR 1975 TOTAL 4354.22 MEAN 11.9 MAX 298 MIN .02 AC-FT 8640
WTR YR 1976 TOTAL 378.33 MEAN 1.03 MAX 47 MIN 0 AC-FT 750

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SEDIMENT RECORDS: Water year 1976.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
JAN								
09...	1040	7.0	.51	43	.06	55	--	--
MAR								
01...	1030	9.0	11	68	2.0	98	99	100
02...	1025	5.5	12	15	.49	94	--	--

11159690 APTOS CREEK NEAR APTOS, CA

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

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

WATER-DISCHARGE RECORDS

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

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

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

AVERAGE DISCHARGE.--5 years, 7.62 ft^3/s (0.216 m^3/s), 5,520 acre-ft/yr (6.81 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27 ft^3/s (0.76 m^3/s) Feb. 29, gage height, 1.40 ft (0.427 m), no peak above base of 100 ft^3/s (2.8 m^3/s); minimum daily, 0.61 ft^3/s (0.017 m^3/s) Aug. 10-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	2.6	1.5	1.5	1.4	5.4	1.2	1.4	1.1	.78	.70	.94
2	1.8	2.4	1.5	1.5	1.4	7.5	1.2	1.4	1.0	.78	.70	.88
3	1.8	2.3	1.7	1.5	1.4	6.5	1.3	1.2	.99	.78	.70	.88
4	1.8	2.3	1.7	1.5	1.4	4.6	1.6	1.2	.99	.78	.70	.88
5	1.7	2.0	1.7	1.5	1.5	3.9	1.5	1.1	.99	.78	.79	.88
6	1.5	2.0	1.7	1.5	1.5	3.2	1.7	1.1	.99	.78	.83	.88
7	1.5	2.0	1.7	1.5	1.5	2.8	2.0	1.1	.99	.78	.78	.88
8	1.7	2.0	1.7	1.6	1.8	2.6	5.4	1.1	.99	.78	.78	.88
9	3.7	2.0	1.7	1.7	2.3	2.4	4.6	1.1	.99	.78	.69	.86
10	11	2.4	1.7	1.9	1.8	2.2	2.4	1.1	.99	.78	.61	.78
11	4.4	2.0	1.7	1.8	1.7	2.1	2.6	1.1	1.1	.78	.61	.78
12	3.0	1.8	2.3	1.7	1.5	1.8	2.4	1.1	1.1	.83	.61	.78
13	2.6	1.8	1.8	1.6	1.5	1.7	2.3	1.1	1.1	.88	.61	.78
14	2.4	1.8	1.7	1.5	1.5	1.7	2.0	1.0	1.1	.88	.61	.78
15	2.3	1.8	1.7	1.5	2.0	1.6	2.0	.99	1.1	.88	2.2	.78
16	2.3	1.8	1.5	1.4	1.7	1.6	1.8	.99	1.1	.88	1.4	.78
17	2.3	1.8	1.5	1.4	1.7	1.6	1.7	.99	1.1	.88	1.2	.78
18	2.0	1.7	1.5	1.5	1.7	1.6	1.7	.99	1.1	.88	1.8	.78
19	2.0	1.7	1.5	1.5	1.7	1.7	1.5	.99	1.1	.88	2.3	.78
20	2.0	1.7	1.4	1.5	1.7	1.5	1.5	.99	1.1	.88	1.7	.78
21	2.0	1.7	1.5	1.5	1.7	1.4	1.5	1.1	1.1	.88	1.4	.78
22	2.0	1.5	2.6	1.5	1.7	1.4	1.5	1.1	.99	.88	1.2	.78
23	1.8	1.5	1.7	1.5	1.5	1.3	1.5	1.1	.99	.88	1.1	.78
24	1.8	1.5	1.7	1.5	1.5	1.3	1.4	1.1	.99	.88	1.1	.78
25	1.8	1.5	1.5	1.5	1.4	1.3	1.4	1.1	.88	.88	1.1	.78
26	3.5	1.5	1.5	1.5	1.4	1.3	1.4	1.1	.78	.88	1.0	.78
27	3.0	1.5	1.5	1.5	1.4	1.3	1.4	1.1	.78	.78	.99	.78
28	2.4	1.5	1.5	1.5	1.4	1.3	1.4	1.1	.78	.70	.99	2.3
29	2.3	1.5	1.5	1.5	9.8	1.2	1.4	1.1	.78	.70	.99	2.6
30	4.8	1.5	1.5	1.4	---	1.2	1.4	1.1	.78	.70	.99	2.0
31	3.0	---	1.5	1.4	---	1.2	---	1.1	---	.70	.99	---
TOTAL	81.9	55.1	51.2	47.4	54.5	72.2	56.7	34.14	29.87	25.31	32.17	28.90
MEAN	2.64	1.84	1.65	1.53	1.88	2.33	1.89	1.10	1.00	.82	1.04	.96
MAX	11	2.6	2.6	1.9	9.8	7.5	5.4	1.4	1.1	.88	2.3	2.6
MIN	1.5	1.5	1.4	1.4	1.4	1.2	1.2	.99	.78	.70	.61	.78
AC-FT	162	109	102	94	108	143	112	68	59	50	64	57

CAL YR 1975 TOTAL 2431.70 MEAN 6.66 MAX 198 MIN 1.4 AC-FT 4820
WTR YR 1976 TOTAL 569.39 MEAN 1.56 MAX 11 MIN .61 AC-FT 1130

NOTE.--No gage-height record Mar. 8 to Apr. 9.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SEDIMENT RECORDS: Water year 1976.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
MAR								
01...	1330	8.5	4.6	11	.14	79	--	--
02...	1450	3.5	8.8	98	2.3	98	99	100
03...	1100	5.0	6.2	9	.15	84	--	--

11160000 SOQUEL CREEK AT SOQUEL, CA

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

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

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Datum of gage is 21.38 ft (6.517 m) above mean sea level.

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

AVERAGE DISCHARGE.--25 years, 42.7 ft^3/s (1.209 m^3/s), 30,940 acre-ft/yr (38.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,800 ft^3/s (447 m^3/s) Dec. 23, 1955, gage height, 22.33 ft (6.806 m), from rating curve extended above 2,900 ft^3/s (82.1 m^3/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.10 ft^3/s (0.003 m^3/s) Aug. 12, 19, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 134 ft^3/s (3.79 m^3/s) Feb. 29, gage height, 3.57 ft (1.088 m), no peak above base of 1,000 ft^3/s (28 m^3/s); minimum daily, 0.22 ft^3/s (0.006 m^3/s) July 28, Aug. 3, Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	8.1	4.7	4.9	4.3	35	4.7	3.7	1.6	.65	.50	.65
2	3.0	6.8	4.7	4.9	4.3	52	4.7	3.5	1.5	.73	.34	.73
3	2.7	6.0	4.7	4.9	4.3	30	5.1	3.5	1.3	.65	.22	.92
4	2.6	5.8	4.9	4.9	4.7	20	6.3	3.5	1.6	.57	.27	.65
5	2.3	5.6	4.9	5.1	8.4	15	5.8	3.7	1.8	.65	.27	.73
6	2.4	5.6	4.9	4.9	7.1	13	6.5	3.5	1.6	.92	.57	1.0
7	2.6	5.6	5.1	4.9	6.0	12	8.1	3.5	1.6	.82	1.6	1.0
8	2.7	5.6	4.7	5.1	7.8	11	20	3.5	1.6	.57	1.8	.57
9	5.5	5.6	4.7	5.8	8.7	10	15	3.7	1.8	.57	1.9	.22
10	42	7.8	4.7	6.3	6.5	9.0	12	3.5	2.1	.57	2.0	.73
11	19	6.5	4.9	5.6	5.3	8.7	11	3.2	2.0	.73	2.4	1.3
12	10	5.6	6.5	5.6	4.9	7.8	9.4	2.9	1.8	.92	2.0	1.3
13	6.8	5.6	6.8	5.3	4.9	7.3	8.1	2.6	1.8	.73	2.4	1.0
14	6.0	5.1	6.0	5.3	5.3	7.1	7.3	2.4	1.6	.92	3.3	.65
15	5.3	5.3	5.3	5.1	6.5	6.5	6.8	2.4	1.4	.92	5.3	.73
16	5.1	5.1	4.9	4.9	5.6	6.5	6.3	2.3	1.4	1.0	2.7	1.2
17	4.7	5.1	4.9	4.7	5.6	6.3	6.3	2.3	1.5	1.1	2.3	1.0
18	4.7	4.7	4.9	5.1	5.3	6.3	6.0	2.0	1.6	1.0	3.5	.92
19	4.5	4.9	4.9	5.1	7.6	6.8	5.8	2.3	1.6	.92	4.5	1.0
20	4.7	4.9	4.5	4.7	6.5	6.0	5.3	2.0	1.4	.73	2.7	.73
21	4.5	4.9	5.1	4.7	6.0	5.6	5.3	2.3	1.4	.73	2.0	.57
22	4.3	4.9	9.4	4.3	4.9	5.6	4.9	2.3	1.4	.73	1.6	.57
23	4.3	4.9	6.3	4.5	4.7	5.3	4.7	2.3	1.3	.82	1.4	.57
24	4.3	4.7	5.3	4.5	4.5	5.1	4.5	2.1	1.0	1.0	1.1	.65
25	4.5	4.5	4.9	4.5	4.3	4.9	4.3	2.0	.73	1.0	.92	.82
26	8.7	4.3	4.9	4.7	4.3	5.1	4.1	2.1	.57	1.0	.82	1.0
27	8.1	4.5	5.1	4.5	4.5	5.1	4.1	2.3	.57	1.0	.92	1.1
28	6.5	4.7	5.1	4.3	4.3	4.9	4.1	2.0	.41	.22	.73	3.7
29	5.8	4.7	5.1	4.3	40	4.9	3.9	1.8	.33	.27	.82	5.1
30	17	4.7	5.1	4.4	---	4.7	3.7	1.8	.73	.27	.92	4.9
31	12	---	4.9	4.5	---	4.7	---	1.8	---	.27	.73	---
TOTAL	219.6	162.1	162.8	152.3	197.1	332.2	204.1	82.8	41.04	22.98	52.53	36.01
MEAN	7.08	5.40	5.25	4.91	6.80	10.7	6.80	2.67	1.37	.74	1.69	1.20
MAX	42	8.1	9.4	6.3	40	52	20	3.7	2.1	1.1	5.3	5.1
MIN	2.3	4.3	4.5	4.3	4.3	4.7	3.7	1.8	.33	.22	.22	.22
AC-FT	436	322	323	302	391	659	405	164	81	46	104	71

CAL YR 1975	TOTAL	12286.60	MEAN	33.7	MAX	873	MIN	1.8	AC-FT	24370
WTR YR 1976	TOTAL	1665.56	MEAN	4.55	MAX	52	MIN	.22	AC-FT	3300

11160000 SOQUEL CREEK AT SOQUEL, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952 to current year.
CHEMICAL ANALYSES: Water years 1952-66.
WATER TEMPERATURES: Water years 1966 to current year.
SEDIMENT RECORDS: Water year 1976.

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

INSTRUMENTATION.--Temperature recorder since January 1966.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1968-69, 1971-76), 30.5°C Aug. 29, 1968; minimum (water years 1969-73, 1975-76), 2.0°C Jan. 30, 1975.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 27.5°C June 27; minimum, 2.5°C Mar. 2.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	14.0	12.5	9.0	9.5	6.5	7.0	4.0	12.5	8.0	11.0	7.0
2	17.5	14.0	12.5	9.0	10.0	7.5	6.0	3.0	12.0	7.5	7.5	2.5
3	18.5	13.5	13.5	9.5	10.0	7.0	6.0	3.0	10.5	9.5	9.0	5.0
4	19.0	13.5	13.5	10.0	10.0	8.0	7.0	3.5	12.0	8.5	10.0	5.0
5	19.0	14.0	13.0	11.0	11.0	9.5	8.5	6.0	8.5	5.5	11.5	6.5
6	19.0	14.5	13.5	10.5	10.5	8.0	8.5	5.5	8.5	4.5	12.0	6.5
7	17.0	13.0	13.0	10.0	10.5	7.5	8.0	5.0	9.0	5.0	12.0	6.5
8	16.0	12.0	13.5	10.5	10.5	7.5	8.5	5.0	9.5	8.0	11.0	8.0
9	15.0	12.0	12.0	8.5	10.5	7.5	8.5	6.5	11.0	8.0	13.0	7.5
10	14.0	13.0	12.0	9.5	11.0	9.0	8.5	5.5	11.5	7.0	10.5	9.5
11	16.0	13.0	11.0	8.0	10.0	9.0	8.5	5.5	12.0	7.0	15.0	10.0
12	16.0	12.5	11.0	7.5	10.5	8.0	8.0	5.5	11.5	7.0	14.0	8.5
13	15.5	12.0	11.5	8.0	10.0	7.0	8.0	4.5	11.5	7.5	14.0	8.0
14	15.5	11.5	11.0	8.5	8.0	5.5	9.0	5.5	11.0	9.0	14.5	8.0
15	16.0	11.5	11.5	8.5	7.5	4.0	9.5	5.5	11.5	9.0	15.5	9.0
16	16.5	12.0	12.0	9.0	7.5	4.5	10.0	6.5	10.0	8.0	17.0	11.0
17	16.0	12.0	10.5	7.5	8.0	5.0	11.0	7.5	13.5	8.5	17.5	11.5
18	16.0	13.0	9.5	6.5	8.0	5.0	10.5	6.5	13.5	8.0	15.5	11.0
19	17.0	12.5	9.0	5.5	8.0	5.5	10.5	6.5	13.0	8.0	15.0	9.5
20	15.0	12.5	10.5	8.0	8.0	5.5	11.5	7.5	12.0	6.5	15.0	8.5
21	15.5	13.5	10.0	7.0	9.0	6.0	11.0	7.0	11.5	6.5	16.5	9.5
22	15.5	11.5	10.0	7.0	10.5	8.0	10.5	6.5	11.0	7.0	17.0	11.0
23	14.0	10.5	10.0	7.0	9.5	7.0	10.0	6.0	10.0	7.0	16.5	10.5
24	13.5	9.5	10.5	7.5	9.5	6.5	10.5	6.5	12.5	7.0	16.5	10.0
25	13.0	9.5	10.5	7.5	9.0	7.0	9.5	5.5	11.5	7.5	15.5	9.0
26	13.0	12.0	10.5	7.5	8.5	6.5	8.5	5.0	13.5	8.0	14.5	9.0
27	13.5	10.5	11.0	9.0	10.0	7.0	9.5	5.0	14.5	8.5	14.5	8.5
28	13.0	9.0	9.5	7.5	10.0	7.0	10.5	6.0	15.0	10.5	15.5	9.0
29	12.5	9.0	8.5	6.5	10.0	7.0	10.0	6.5	11.5	9.0	15.5	9.0
30	13.0	10.5	8.5	6.5	9.5	6.5	10.5	7.0	---	---	16.5	9.5
31	12.0	9.0	---	---	7.5	5.0	11.0	7.0	---	---	16.5	9.5
MONTH	19.0	9.0	13.5	5.5	11.0	4.0	11.5	3.0	15.0	4.5	17.5	2.5

11160000 SOQUEL CREEK AT SOQUEL, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	8.0	21.0	13.0	23.5	15.0	24.5	15.5	19.5	16.0	21.5	16.5
2	15.5	8.0	20.0	13.5	23.5	15.0	24.5	15.5	23.0	16.0	19.5	16.5
3	12.0	9.5	18.5	13.0	23.0	13.5	25.5	17.5	23.5	17.5	---	---
4	12.0	9.0	18.5	13.5	21.5	13.0	25.5	17.0	24.5	17.0	20.0	16.5
5	12.0	10.0	19.5	13.0	22.0	13.5	26.0	17.5	24.0	17.0	19.0	16.5
6	13.5	10.5	19.5	13.5	22.5	13.5	25.5	17.5	23.0	17.5	21.0	15.0
7	13.5	11.0	---	---	22.5	14.5	25.5	17.5	24.0	17.0	22.0	16.0
8	14.5	11.0	---	---	22.5	14.5	26.0	17.5	23.5	16.5	20.5	17.5
9	15.5	10.0	---	---	20.5	15.5	25.5	18.0	22.5	17.0	19.5	17.5
10	12.0	10.0	---	---	19.5	15.0	24.5	16.5	22.5	17.0	18.5	17.0
11	14.5	9.0	---	---	21.0	14.0	24.0	17.0	22.5	17.5	20.5	17.0
12	15.5	10.5	---	---	23.5	15.0	25.0	18.0	22.5	16.5	20.0	15.5
13	15.0	10.5	---	---	23.5	15.5	20.5	17.0	21.5	16.0	19.0	15.0
14	16.5	10.5	---	---	25.0	15.0	23.0	16.5	18.5	17.5	17.5	15.5
15	16.5	10.5	---	---	25.0	16.0	23.0	17.0	19.0	16.0	18.0	15.5
16	16.0	9.0	---	---	24.0	16.0	22.5	17.0	19.5	14.5	18.5	14.0
17	16.0	9.0	---	---	20.0	16.5	21.5	17.5	18.0	15.5	19.0	14.5
18	18.0	11.5	---	---	23.0	16.0	23.0	16.0	17.0	16.0	17.0	15.5
19	18.5	11.0	---	---	24.0	16.5	23.5	16.5	18.5	16.5	19.0	14.5
20	19.0	11.5	21.0	13.5	23.5	17.0	23.5	15.5	20.5	16.5	19.0	14.5
21	18.0	12.5	19.0	14.0	24.5	16.5	23.5	16.0	22.5	17.5	18.5	14.5
22	19.5	12.0	22.0	14.0	24.0	15.0	23.5	15.5	22.5	17.0	19.0	14.0
23	19.5	13.0	22.0	13.5	25.0	15.5	23.0	17.0	23.0	17.0	19.0	15.5
24	20.0	12.5	22.5	14.0	26.5	16.5	24.0	16.5	23.0	17.5	18.5	15.0
25	19.0	11.5	23.0	15.0	27.0	18.0	23.5	17.0	23.0	18.0	18.0	15.5
26	18.5	11.0	23.0	14.5	26.5	17.5	23.5	17.0	22.0	16.0	16.0	15.5
27	18.0	10.5	23.0	15.5	27.5	17.5	23.5	17.0	22.5	16.0	16.0	15.5
28	18.5	12.5	22.0	13.5	26.0	17.5	23.0	17.5	22.0	16.5	18.0	16.0
29	19.0	10.5	20.5	13.5	25.0	17.0	22.0	17.0	22.0	17.0	16.5	16.0
30	20.0	11.5	22.5	15.0	25.0	16.5	23.0	17.5	22.0	17.5	18.5	15.5
31	---	---	24.0	15.5	---	---	20.0	17.5	22.0	17.0	---	---
MONTH	20.0	8.0	---	---	27.5	13.0	26.0	15.5	24.5	14.5	22.0	14.0

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
MAR							
01...	1200	10.5	28	82	6.2	--	--
02...	1250	2.5	80	297	64	67	82
02...	1600	4.0	70	160	30	--	--
03...	1220	7.5	25	24	1.6	--	--

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
MAR						
01...	--	--	--	99	100	--
02...	90	96	98	99	99	100
02...	--	--	--	96	--	--
03...	--	--	--	85	--	--

11160020 SAN LORENZO RIVER NEAR BOULDER CREEK, CA

LOCATION.--Lat 37°12'24", long 122°08'38", in NE¼SW¼ sec.25, T.8 S., R.3 W., Santa Cruz County, on right bank 22 ft (7 m) upstream from culvert on State Highway 9, 100 ft (30 m) upstream from small right-bank tributary, and 5.8 mi (9.3 km) north of town of Boulder Creek.

DRAINAGE AREA.--6.17 mi^2 (15.98 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Concrete control since Sept. 1, 1971. Altitude of gage is 710 ft (216 m), from topographic map.

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

AVERAGE DISCHARGE.--8 years, 6.89 ft^3/s (0.195 m^3/s), 4,990 acre-ft/yr (6.15 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 672 ft^3/s (19.0 m^3/s) Jan. 16, 1973, gage height, 9.10 ft (2.774 m), from rating curve extended above 230 ft^3/s (6.51 m^3/s) on basis of computation of flow through culvert at gage height 8.48 ft (2.585 m); minimum daily, 0.18 ft^3/s (0.005 m^3/s) Sept. 1, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9.9 ft^3/s (0.28 m^3/s) Feb. 29, gage height, 2.46 ft (0.750 m), no peak above base of 70 ft^3/s (2.0 m^3/s); minimum daily, 0.23 ft^3/s (0.007 m^3/s) Sept. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.96	1.2	1.1	.85	.96	2.7	.96	1.1	.75	.42	.41	.25
2	.96	1.1	1.1	.85	.96	3.0	.94	1.1	.72	.42	.40	.27
3	.96	1.1	1.1	.85	.96	2.5	.91	1.1	.75	.42	.36	.29
4	.96	1.1	1.1	.85	.96	2.2	.96	1.2	.75	.42	.38	.27
5	.94	1.1	1.1	.85	1.1	2.0	.96	1.2	.75	.42	.36	.25
6	.96	1.1	1.1	.96	1.1	1.7	1.1	1.3	.66	.42	.40	.25
7	1.1	1.1	1.1	.85	1.1	1.7	1.5	1.2	.66	.40	.42	.25
8	1.1	1.1	1.1	.85	1.2	1.5	2.5	1.1	.66	.42	.41	.25
9	1.7	1.1	1.1	.96	1.1	1.5	1.6	.96	.64	.42	.36	.24
10	3.5	1.4	1.1	.85	1.1	1.5	1.6	.96	.78	.40	.34	.23
11	1.9	.96	1.1	.85	1.1	1.5	1.5	.93	.71	.38	.33	.28
12	1.2	.96	1.5	.75	1.1	1.2	1.4	.85	.66	.42	.36	.30
13	1.1	.95	1.2	.75	1.1	1.2	1.3	.84	.63	.41	.34	.30
14	1.1	.85	1.1	.85	1.2	1.2	1.2	.81	.55	.39	.39	.29
15	1.0	.85	1.1	.85	1.2	1.2	1.2	.84	.49	.42	.56	.29
16	1.0	.96	1.1	.85	1.1	1.2	1.2	.82	.42	.40	.43	.32
17	.99	.96	1.1	.85	1.1	1.1	1.1	.75	.47	.40	.42	.30
18	.99	.96	1.1	.85	1.1	1.1	1.2	.75	.49	.42	.52	.30
19	.99	.96	1.1	.85	1.3	1.2	1.1	.82	.49	.42	.65	.25
20	.96	1.1	1.1	.85	1.2	1.1	1.1	.81	.49	.42	.48	.25
21	.96	1.1	1.1	.85	1.2	1.1	1.2	.85	.49	.42	.42	.28
22	.96	1.1	1.2	.85	1.1	1.1	1.2	.85	.47	.42	.42	.25
23	.98	1.1	.96	.85	1.1	1.1	1.2	.85	.41	.36	.42	.25
24	.96	1.1	.96	.85	1.1	.96	1.2	.85	.38	.36	.40	.25
25	.96	1.1	.96	.96	1.1	.96	1.1	.85	.36	.32	.30	.25
26	2.0	.85	.96	.96	1.1	.96	1.1	.82	.36	.30	.30	.28
27	1.4	1.1	.96	.96	1.1	.96	1.1	.69	.36	.30	.30	.31
28	1.2	1.1	.85	.96	1.2	.99	1.2	.71	.36	.30	.30	.41
29	1.2	1.1	.85	.96	4.4	.99	1.2	.77	.36	.30	.27	.42
30	2.4	1.1	.85	.96	---	.85	1.2	.79	.40	.33	.25	.48
31	1.4	---	.85	.96	---	.90	---	.78	---	.36	.25	---
TOTAL	38.79	31.66	33.00	27.14	35.44	43.17	37.03	28.25	16.47	12.01	11.95	8.61
MEAN	1.25	1.06	1.06	.88	1.22	1.39	1.23	.91	.55	.39	.39	.29
MAX	3.5	1.4	1.5	.96	4.4	3.0	2.5	1.3	.78	.42	.65	.48
MIN	.94	.85	.85	.75	.96	.85	.91	.69	.36	.30	.25	.23
AC-FT	77	63	65	54	70	86	73	56	33	24	24	17

CAL YR 1975	TOTAL	2019.66	MEAN	5.53	MAX	124	MIN	.85	AC-FT 4010
WTR YR 1976	TOTAL	323.52	MEAN	.88	MAX	4.4	MIN	.23	AC-FT 642

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to current year.
CHEMICAL ANALYSES: Water years 1973-75.
SEDIMENT RECORDS: Water year 1976.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
NOV						
03...	1440	10.0	1.1	4	.01	--
MAR						
02...	1350	4.5	3.5	92	.87	98
03...	1455	4.0	2.2	15	.09	95

11160300 ZAYANTE CREEK AT ZAYANTE, CA

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

DRAINAGE AREA.--11.1 mi^2 (28.7 km^2).

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Records fair. No known regulation; only small diversion above station for individual use.

AVERAGE DISCHARGE.--19 years, 11.0 ft^3/s (0.312 m^3/s), 7,970 acre-ft/yr (9.83 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,700 ft^3/s (105 m^3/s) Apr. 2, 1958, gage height, 7.70 ft (2.347 m), from rating curve extended above 1,200 ft^3/s (34.0 m^3/s) on basis of slope-area measurement of maximum flow; no flow at times, caused by filling of pools upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25 ft^3/s (0.71 m^3/s) Feb. 29, gage height, 2.16 ft (0.658 m), no peak above base of 450 ft^3/s (13 m^3/s); minimum daily, 0.11 ft^3/s (0.003 m^3/s) Aug. 6-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.67	1.6	1.1	1.0	.70	4.3	.63	.77	.51	.14	.26	.18
2	.68	1.4	1.1	1.0	.70	7.2	.63	.77	.51	.14	.26	.16
3	.66	1.4	1.1	1.0	.70	5.7	.70	.77	.57	.18	.18	.20
4	.62	1.3	1.0	1.0	.77	4.0	1.1	.77	.63	.14	.14	.20
5	.63	1.2	.84	1.0	1.1	2.8	1.1	.77	.63	.14	.14	.18
6	.59	1.2	.84	1.0	.94	2.1	1.7	.77	.63	.14	.11	.18
7	.67	1.2	.84	1.0	.84	1.8	2.2	.84	.70	.14	.11	.16
8	.67	1.2	.84	1.0	1.3	1.7	5.8	.70	.70	.12	.11	.16
9	3.3	1.1	.84	1.4	1.4	1.6	2.9	.70	.77	.12	.12	.16
10	12	2.2	.84	1.3	.97	1.5	2.3	.70	1.3	.12	.14	.14
11	5.1	1.4	.92	1.1	.87	1.5	2.3	.70	1.0	.12	.16	.16
12	2.4	1.1	1.4	1.3	.83	1.3	1.8	.57	.84	.12	.18	.23
13	1.8	1.1	1.2	1.5	.84	1.2	1.6	.57	.63	.12	.14	.22
14	1.5	1.0	1.0	1.4	.92	1.1	1.5	.57	.51	.12	.14	.19
15	1.4	1.0	.92	1.1	.93	1.1	1.3	.57	.40	.18	.92	.18
16	1.2	1.0	.92	1.1	.90	1.1	1.2	.57	.40	.20	.45	.25
17	1.2	.91	.92	1.1	.92	1.0	1.1	.63	.40	.22	.26	.29
18	1.1	.93	.92	1.0	.85	1.0	1.2	.63	.40	.29	.63	.23
19	1.1	.92	.92	1.0	1.4	1.2	1.1	.70	.35	.21	1.3	.22
20	1.0	.91	.92	1.0	.98	1.0	1.1	.63	.30	.16	.70	.23
21	1.0	.94	.92	.92	.84	.92	1.1	.70	.30	.15	.40	.21
22	.99	1.0	1.6	.92	.84	.92	1.0	.70	.30	.19	.30	.20
23	.96	1.2	1.2	.92	.84	.77	1.0	.63	.30	.13	.30	.21
24	.97	1.2	1.1	.92	.92	.77	1.0	.57	.26	.16	.26	.20
25	.97	1.1	1.0	.77	.84	.77	.92	.63	.20	.16	.23	.21
26	2.2	1.1	1.0	.63	.84	.84	.84	.63	.20	.16	.20	.24
27	1.8	1.2	1.0	.63	.84	.84	.84	.57	.18	.14	.20	.49
28	1.3	1.1	1.0	.57	.92	.77	.84	.57	.16	.14	.18	1.7
29	1.2	1.1	1.0	.70	8.2	.70	.77	.57	.12	.12	.18	1.2
30	6.2	1.1	1.0	.70	---	.63	.84	.51	.14	.14	.18	1.2
31	2.2	---	1.0	.70	---	.63	---	.57	---	.16	.18	---
TOTAL	58.08	35.11	31.20	30.68	33.94	52.76	42.41	20.35	14.34	4.77	9.06	9.78
MEAN	1.87	1.17	1.01	.99	1.17	1.70	1.41	.66	.48	.15	.29	.33
MAX	12	2.2	1.6	1.5	8.2	7.2	5.8	.84	1.3	.29	1.3	1.7
MIN	.59	.91	.84	.57	.70	.63	.63	.51	.12	.12	.11	.14
AC-FT	115	70	62	61	67	105	84	40	28	9.5	18	19

CAL YR 1975 TOTAL 3416.00 MEAN 9.36 MAX 348 MIN .50 AC-FT 6780
WTR YR 1976 TOTAL 342.48 MEAN .94 MAX 12 MIN .11 AC-FT 679

11160300 ZAYANTE CREEK AT ZAYANTE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970-74, 1976.
CHEMICAL ANALYSES: Water years 1973-74.
WATER TEMPERATURES: Water years 1970-73.
SEDIMENT RECORDS: Water years 1970-73, 1976.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: February 1970 to September 1973.
SEDIMENT RECORDS: February 1970 to September 1973.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
FEB									
05...	1120	4.0	1.2	2	.01	--	--	--	--
MAR									
02...	1200	4.0	8.3	42	.94	95	--	--	--
02...	1405	3.5	11	49	1.5	96	97	98	100
02...	1500	4.0	11	56	1.7	94	--	--	--
02...	1540	4.0	11	62	1.8	94	98	100	--
03...	1555	6.5	4.9	25	.33	97	--	--	--

11160500 SAN LORENZO RIVER AT BIG TREES, CA

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

DRAINAGE AREA.--106 mi^2 (275 km^2).

WATER-DISCHARGE RECORDS

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

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

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

REMARKS.--Records good. Flow regulated by Loch Lomond Reservoir since 1961, capacity, 8,400 acre-ft (10.4 hm^3). Many small diversions above station for domestic supply.

AVERAGE DISCHARGE.--40 years, 134 ft^3/s (3.795 m^3/s), 97,080 acre-ft/yr (120 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,400 ft^3/s (861 m^3/s) Dec. 23, 1955, gage height, 22.55 ft (6.873 m) site and datum then in use, from rating curve extended above 11,000 ft^3/s (312 m^3/s) on basis of slope-area measurement of maximum flow; minimum, 0.8 ft^3/s (0.023 m^3/s), regulated, June 25, 1939; minimum daily, 7.5 ft^3/s (0.21 m^3/s) July 1, 1939.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 458 ft^3/s (13.0 m^3/s) Feb. 29, gage height, 5.09 ft (1.551 m), no peak above base of 1,400 ft^3/s (40 m^3/s); minimum daily, 7.6 ft^3/s (0.22 m^3/s) Sept. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	31	23	21	18	82	19	18	13	8.3	9.5	8.6
2	19	28	23	21	18	125	19	18	13	8.9	8.9	8.6
3	23	26	23	22	18	78	20	17	13	9.5	8.9	8.6
4	18	25	23	22	18	35	22	17	13	9.5	8.9	8.6
5	17	24	23	21	23	28	22	17	14	9.5	8.6	9.2
6	16	23	22	22	15	22	26	17	12	9.2	8.6	9.2
7	20	23	23	22	12	20	33	17	13	8.6	9.2	11
8	19	23	23	22	18	19	78	17	13	8.3	8.6	8.1
9	52	24	22	25	21	19	30	17	13	8.6	8.3	7.7
10	139	34	22	25	18	21	29	16	15	8.6	8.6	7.6
11	51	28	22	23	13	20	29	15	15	9.2	9.2	8.9
12	34	25	28	22	14	20	26	15	15	8.9	8.1	12
13	27	24	26	22	13	20	23	14	13	8.9	8.3	12
14	25	23	24	21	13	20	25	14	12	8.9	8.9	8.0
15	23	23	23	21	17	20	25	14	12	9.2	19	8.1
16	22	24	22	21	17	19	25	14	11	9.2	13	8.5
17	22	23	22	21	16	19	24	16	12	10	12	8.5
18	22	22	22	21	18	20	24	16	12	10	15	8.2
19	21	23	22	20	20	22	23	18	12	9.5	20	8.5
20	23	23	22	20	16	23	22	18	12	8.9	16	9.4
21	21	23	23	20	17	22	22	18	12	8.6	14	8.7
22	21	23	31	19	19	21	21	18	9.9	8.6	12	8.2
23	20	23	26	17	18	21	21	17	10	8.6	11	8.0
24	20	23	23	17	18	20	21	19	9.5	8.3	11	8.1
25	20	22	23	18	18	23	20	16	9.5	9.2	9.9	8.2
26	46	22	23	18	18	18	19	15	9.9	8.9	9.5	8.8
27	36	23	22	19	19	19	18	15	9.5	8.6	8.9	12
28	27	23	22	18	18	19	18	15	8.6	9.5	9.5	19
29	25	23	22	18	162	20	18	14	8.3	8.1	9.9	19
30	79	22	21	18	---	19	18	14	8.3	8.6	9.2	19
31	41	---	21	18	---	19	---	14	---	9.2	8.6	---
TOTAL	968	726	717	635	643	873	740	500	353.5	277.9	331.1	298.3
MEAN	31.2	24.2	23.1	20.5	22.2	28.2	24.7	16.1	11.8	8.96	10.7	9.94
MAX	139	34	31	25	162	125	78	19	15	10	20	19
MIN	16	22	21	17	12	18	18	14	8.3	8.1	8.1	7.6
AC-FT	1920	1440	1420	1260	1280	1730	1470	992	701	551	657	592

CAL YR 1975 TOTAL 37002.0 MEAN 101 MAX 1680 MIN 16 AC-FT 73390
WTR YR 1976 TOTAL 7062.8 MEAN 19.3 MAX 162 MIN 7.6 AC-FT 14010

11160500 SAN LORENZO RIVER AT BIG TREES, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1906-7, 1952 to current year.
CHEMICAL ANALYSES: Water years 1906-7, 1952-67, 1969-70, 1973-75.
WATER TEMPERATURES: Water years 1966 to current year.
SEDIMENT RECORDS: Water years 1973 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: May 1966 to current year.
SEDIMENT RECORDS: October 1972 to current year.

INSTRUMENTATION.--Temperature recorder since May 1966.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1967, 1969-70, 1972-76), 25.5°C July 14, 1972; minimum (water years 1967-70, 1972-76), 1.5°C Dec. 15, 1967.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 6,170 mg/L Jan. 16, 1973; minimum daily mean, 1 mg/L on several days in 1972-74, 1975.
SEDIMENT DISCHARGE: Maximum daily, 125,000 tons (113,000 tonnes) Jan. 16, 1973; minimum daily, 0.06 ton (0.05 tonne) Sept. 15, 16, 1974, Nov. 26, 1975, Sept. 23, 1976.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 22.5°C June 26, 27; minimum, 2.0°C Feb. 7.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 197 mg/L Oct. 10; minimum daily mean, 1 mg/L Nov. 26.
SEDIMENT DISCHARGE: Maximum daily, 148 tons (134 tonnes) Feb. 29; minimum daily, 0.06 ton (0.05 tonne) Nov. 26, Sept. 23.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	14.0	10.0	8.5	8.0	5.5	5.5	3.5	9.5	6.5	10.0	9.0
2	15.5	13.5	10.0	8.5	8.5	6.5	4.5	2.5	8.5	6.0	9.5	6.0
3	15.0	13.0	10.5	8.5	8.0	6.0	4.5	2.0	8.0	7.0	7.0	5.0
4	16.0	13.0	11.0	9.0	8.5	6.0	5.5	3.0	9.0	7.5	7.0	6.5
5	16.5	13.0	11.0	10.0	9.5	8.5	7.0	5.0	7.5	5.0	8.0	6.5
6	15.5	13.0	11.0	10.0	9.0	7.0	7.0	5.0	6.5	3.5	8.0	6.5
7	14.0	12.5	11.0	9.5	8.0	6.0	6.5	4.5	8.5	2.0	8.5	7.0
8	13.0	10.5	11.0	9.5	8.0	6.0	6.5	4.0	7.0	5.0	10.5	8.0
9	13.0	11.0	9.5	8.0	9.5	6.0	7.0	5.5	8.0	7.0	9.5	7.5
10	13.0	12.5	10.5	8.5	9.0	7.5	7.0	5.0	8.0	6.5	9.5	9.0
11	13.5	12.5	9.0	7.5	9.0	8.0	6.5	4.5	11.0	5.5	10.5	9.0
12	13.5	12.0	9.0	6.5	9.0	7.5	7.0	5.5	10.0	5.5	---	---
13	14.0	12.0	8.5	6.5	8.0	6.0	6.5	4.5	10.5	6.0	---	---
14	13.5	11.0	9.0	7.0	7.0	5.0	7.0	4.5	9.5	7.0	---	---
15	13.0	10.5	9.5	7.0	6.0	4.0	7.5	5.0	9.5	8.5	---	---
16	13.5	11.0	10.5	8.5	6.0	4.0	7.5	5.0	9.0	8.0	---	---
17	13.5	11.0	8.5	7.0	6.5	4.0	8.0	5.5	12.0	8.5	---	---
18	14.5	12.5	8.0	6.0	6.0	4.0	8.0	5.0	11.0	9.5	13.5	12.5
19	14.0	12.0	7.0	5.0	6.0	4.0	8.0	5.0	10.5	9.5	12.5	11.0
20	13.5	11.0	8.5	6.5	6.0	4.0	8.0	5.0	9.5	8.5	11.5	10.5
21	14.0	12.0	8.0	6.0	7.0	5.0	7.5	5.0	8.5	7.5	12.0	10.0
22	13.0	11.0	7.5	5.5	8.5	7.0	7.5	4.5	8.0	7.0	12.5	11.0
23	11.5	9.0	8.0	6.0	7.5	6.0	8.5	4.5	8.0	7.0	13.0	11.5
24	10.5	8.5	8.0	5.5	7.5	5.5	7.5	5.5	10.0	7.0	12.5	11.0
25	10.5	8.0	9.0	6.5	7.5	6.0	6.0	4.5	8.5	7.5	11.5	11.0
26	12.0	10.5	9.0	7.5	7.0	5.5	6.5	4.0	9.5	8.0	12.5	10.0
27	11.5	10.5	9.5	8.5	8.5	6.5	6.0	4.0	10.5	8.5	11.0	10.0
28	10.5	8.5	9.0	7.0	8.5	6.0	6.5	4.5	11.0	10.0	11.5	10.0
29	10.0	8.0	7.0	5.5	8.5	6.5	6.5	5.0	11.0	10.0	12.0	10.0
30	10.5	10.0	7.0	5.0	8.5	6.5	7.0	5.0	---	---	12.5	11.0
31	10.0	8.5	---	---	7.0	5.0	7.5	6.0	---	---	12.5	11.5
MONTH	16.5	8.0	11.0	5.0	9.5	4.0	8.5	2.0	12.0	2.0	13.5	5.0

11160500 SAN LORENZO RIVER AT BIG TREES, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	10.0	15.0	13.0	18.5	13.5	19.5	14.0	17.5	15.5	19.5	15.5
2	11.0	10.0	15.0	13.5	18.5	13.5	20.0	14.5	19.0	15.5	18.5	15.5
3	11.0	10.0	14.5	13.0	17.5	13.0	20.5	15.5	18.5	16.5	19.0	15.5
4	10.0	9.5	14.5	13.5	17.0	11.5	21.5	16.0	19.5	15.0	18.5	15.5
5	10.5	10.0	14.0	13.5	17.0	12.0	22.0	16.5	19.5	15.0	19.5	16.0
6	11.0	10.0	14.5	13.0	17.5	13.0	21.5	16.5	19.0	16.5	19.0	16.0
7	11.5	11.0	14.5	12.5	17.5	13.5	21.5	16.5	20.0	16.5	18.0	14.5
8	11.5	10.5	14.5	13.5	17.0	13.0	22.0	16.5	20.0	15.0	19.5	15.5
9	12.0	10.5	15.0	14.0	15.5	14.0	22.5	17.5	20.0	15.0	19.0	16.0
10	11.5	11.0	15.5	14.5	16.5	13.5	21.5	16.5	20.0	16.0	18.5	17.0
11	11.0	10.5	16.5	13.5	16.0	13.5	21.5	16.5	20.5	16.5	17.5	16.5
12	11.0	10.5	17.0	14.0	18.5	13.0	22.0	17.0	20.0	15.5	18.5	16.0
13	11.5	10.5	18.5	15.0	19.0	14.0	20.5	16.5	19.0	15.5	18.5	15.0
14	12.5	11.0	18.0	14.5	20.0	14.5	20.0	16.0	17.0	16.0	18.0	14.0
15	12.5	12.0	18.0	14.5	21.0	15.5	20.5	16.5	17.5	15.5	16.0	14.5
16	12.0	11.0	16.5	14.5	20.0	15.5	20.0	16.5	17.5	15.0	16.0	14.5
17	11.5	10.5	16.0	10.5	19.5	15.5	19.5	17.0	16.0	15.0	17.0	13.0
18	13.0	11.5	15.0	14.0	19.5	15.5	20.5	16.0	16.5	15.5	17.5	13.5
19	13.5	12.0	14.5	13.5	20.0	15.5	20.0	16.0	17.0	15.5	17.0	14.5
20	14.0	12.5	14.0	13.5	19.5	16.0	20.5	15.0	19.0	16.0	17.0	13.5
21	14.0	13.0	14.5	13.5	19.5	15.5	19.5	14.5	19.5	17.0	17.0	13.5
22	14.0	13.0	15.5	12.5	19.5	14.0	20.0	14.5	19.5	16.0	16.5	13.5
23	14.0	13.0	15.5	13.0	21.0	14.5	20.5	16.0	20.0	16.0	17.0	13.0
24	15.0	13.5	16.5	13.0	22.0	16.0	20.5	15.5	20.5	16.5	17.0	14.5
25	14.5	13.0	18.0	13.5	22.5	17.0	20.5	16.0	20.5	16.5	17.0	13.5
26	13.5	12.5	18.5	13.5	22.5	16.5	20.5	16.5	19.5	14.5	15.5	14.5
27	13.5	11.5	18.5	14.0	22.5	16.5	21.0	16.5	19.5	15.0	16.5	14.5
28	13.0	12.0	17.0	12.5	22.0	16.5	21.0	17.5	19.5	15.5	17.0	16.0
29	13.5	11.5	15.5	12.0	21.5	16.0	20.5	16.5	20.0	16.0	16.0	15.5
30	14.5	12.0	18.0	13.5	20.0	15.5	20.0	17.0	20.5	16.0	17.0	15.5
31	---	---	19.0	14.5	---	---	18.0	17.0	20.5	16.0	---	---
MONTH	15.0	9.5	19.0	10.5	22.5	11.5	22.5	14.0	20.5	14.5	19.5	13.0

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	19	7	.36	31	38	3.2	23	2	.12
2	19	6	.31	28	32	2.4	23	3	.19
3	23	9	.70	26	8	.56	23	2	.12
4	18	6	.29	25	7	.47	23	3	.19
5	17	5	.23	24	7	.45	23	3	.19
6	16	5	.22	23	7	.43	22	4	.24
7	20	5	.32	23	6	.37	23	3	.19
8	19	4	.21	23	6	.37	23	3	.19
9	52	92	48	24	5	.32	22	3	.18
10	139	197	93	34	34	3.2	22	2	.12
11	51	60	8.3	28	19	1.4	22	2	.12
12	34	40	3.7	25	10	.68	28	13	.98
13	27	30	2.2	24	6	.39	26	5	.35
14	25	21	1.4	23	3	.19	24	4	.26
15	23	9	.56	23	3	.19	23	6	.37
16	22	4	.24	24	4	.26	22	11	.65
17	22	3	.18	23	4	.25	22	11	.65
18	22	3	.18	22	3	.18	22	8	.48
19	21	2	.11	23	3	.19	22	7	.42
20	23	17	1.1	23	4	.25	22	4	.24
21	21	11	.62	23	4	.25	23	8	.56
22	21	6	.34	23	3	.19	31	9	.75
23	20	4	.22	23	2	.12	26	4	.28
24	20	3	.16	23	2	.12	23	5	.31
25	20	2	.11	22	2	.12	23	5	.31
26	46	31	4.5	22	1	.06	23	5	.31
27	36	10	.97	23	2	.12	22	4	.24
28	27	5	.36	23	3	.19	22	3	.18
29	25	6	.44	23	2	.12	22	3	.18
30	79	69	15	22	2	.12	21	4	.23
31	41	48	5.3	---	---	---	21	5	.28
MONTH	968	---	189.63	726	---	17.16	717	---	9.88

11160500 SAN LORENZO RIVER AT BIG TREES, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	21	7	.40	18	5	.24	82	117	31
2	21	6	.34	18	4	.19	125	76	29
3	22	4	.24	18	5	.24	78	37	7.8
4	22	4	.24	18	6	.29	35	19	1.8
5	21	4	.23	23	7	.43	28	12	.91
6	22	4	.24	15	12	.49	22	9	.53
7	22	5	.30	12	10	.32	20	6	.32
8	22	5	.30	18	5	.24	19	5	.26
9	25	7	.47	21	5	.28	19	5	.26
10	25	6	.41	18	7	.34	21	9	.51
11	23	6	.37	13	6	.21	20	5	.27
12	22	6	.36	14	3	.11	20	4	.22
13	22	6	.36	13	3	.11	20	4	.22
14	21	5	.28	13	3	.11	20	4	.22
15	21	4	.23	17	5	.23	20	4	.22
16	21	4	.23	17	4	.18	19	5	.26
17	21	4	.23	16	3	.13	19	5	.26
18	21	5	.28	18	4	.19	20	5	.27
19	20	6	.32	20	5	.27	22	4	.24
20	20	5	.27	16	4	.17	23	4	.25
21	20	4	.22	17	4	.18	22	4	.24
22	19	4	.21	19	5	.26	21	4	.23
23	17	3	.14	18	4	.19	21	5	.28
24	17	4	.18	18	3	.15	20	5	.27
25	18	5	.24	18	3	.15	23	4	.25
26	18	4	.19	18	2	.10	18	4	.19
27	19	3	.15	19	2	.10	19	4	.21
28	18	3	.15	18	4	.19	19	4	.21
29	18	4	.19	162	184	148	20	4	.22
30	18	4	.19	---	---	---	19	4	.21
31	18	5	.24	---	---	---	19	4	.21
MONTH	635	---	8.20	643	---	154.09	873	---	77.34

	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	19	5	.26	18	7	.34	13	16	.56
2	19	5	.26	18	14	.68	13	13	.46
3	20	6	.32	17	22	1.0	13	11	.39
4	22	8	.48	17	24	1.1	13	8	.28
5	22	6	.36	17	20	.92	14	6	.23
6	26	8	.56	17	11	.50	12	4	.13
7	33	10	1.3	17	11	.50	13	4	.14
8	78	26	6.0	17	20	.92	13	4	.14
9	30	15	1.2	17	13	.60	13	5	.18
10	29	13	1.0	16	8	.35	15	5	.20
11	29	13	1.0	15	5	.20	15	6	.24
12	26	8	.56	15	5	.20	15	6	.24
13	23	8	.50	14	5	.19	13	6	.21
14	25	13	.88	14	6	.23	12	7	.23
15	25	12	.81	14	7	.26	12	8	.26
16	25	7	.47	14	8	.30	11	9	.27
17	24	6	.39	16	10	.43	12	9	.29
18	24	6	.39	16	11	.48	12	9	.29
19	23	4	.25	18	11	.53	12	9	.29
20	22	3	.18	18	11	.53	12	9	.29
21	22	4	.24	18	11	.53	12	10	.32
22	21	9	.51	18	11	.53	9.9	8	.21
23	21	10	.57	17	10	.46	10	6	.16
24	21	10	.57	19	10	.51	9.5	4	.10
25	20	11	.59	16	9	.39	9.5	3	.08
26	19	12	.62	15	9	.36	9.9	3	.08
27	18	13	.63	15	8	.32	9.5	3	.08
28	18	12	.58	15	8	.32	8.6	4	.09
29	18	9	.44	14	10	.38	8.3	4	.09
30	18	7	.34	14	12	.45	8.3	5	.11
31	---	---	---	14	14	.53	---	---	---
MONTH	740	---	22.26	500	---	15.04	353.5	---	6.64

11160500 SAN LORENZO RIVER AT BIG TREES, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	8.3	7	.16	9.5	11	.28	8.6	10	.23
2	8.9	8	.19	8.9	11	.26	8.6	11	.26
3	9.5	8	.21	8.9	12	.29	8.6	12	.28
4	9.5	8	.21	8.9	12	.29	8.6	12	.28
5	9.5	7	.18	8.6	11	.26	9.2	10	.25
6	9.2	7	.17	8.6	10	.23	9.2	8	.20
7	8.6	13	.30	9.2	9	.22	11	7	.21
8	8.3	20	.45	8.6	8	.19	8.1	7	.15
9	8.6	16	.37	8.3	8	.18	7.7	7	.15
10	8.6	13	.30	8.6	7	.16	7.6	6	.12
11	9.2	13	.32	9.2	7	.17	8.9	5	.12
12	8.9	15	.36	8.1	7	.15	12	5	.16
13	8.9	16	.38	8.3	6	.13	12	5	.16
14	8.9	17	.41	8.9	6	.14	8.0	6	.13
15	9.2	18	.45	19	78	4.6	8.1	6	.13
16	9.2	19	.47	13	25	.88	8.5	7	.16
17	10	19	.51	12	11	.36	8.5	7	.16
18	10	18	.49	15	12	.52	8.2	6	.13
19	9.5	16	.41	20	23	1.3	8.5	6	.14
20	8.9	15	.36	16	9	.39	9.4	5	.13
21	8.6	13	.30	14	7	.26	8.7	5	.12
22	8.6	11	.26	12	6	.19	8.2	4	.09
23	8.6	9	.21	11	8	.24	8.0	3	.06
24	8.3	7	.16	11	10	.30	8.1	4	.09
25	9.2	6	.15	9.9	12	.32	8.2	6	.13
26	8.9	7	.17	9.5	14	.36	8.8	7	.17
27	8.6	7	.16	8.9	14	.34	12	14	.60
28	9.5	8	.21	9.5	13	.33	19	30	1.5
29	8.1	9	.20	9.9	13	.35	19	21	1.1
30	8.6	10	.23	9.2	12	.30	19	19	.97
31	9.2	11	.27	8.6	11	.26	---	---	---
MONTH	277.9	---	9.02	331.1	---	14.25	298.3	---	8.38
YEAR	7062.8		531.89						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1975

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1975	968.00	189.63	80	270
NOVEMBER ...	726.00	17.16	5	22
DECEMBER ...	717.00	9.88	0	10
JANUARY 1976	635.00	8.20	0	8
FEBRUARY ...	643.00	154.09	14	168
MARCH	873.00	77.34	5	82
APRIL	740.00	22.26	0	22
MAY	500.00	15.04	0	15
JUNE	353.50	6.64	0	7
JULY	277.90	9.02	0	9
AUGUST	331.10	14.25	0	14
SEPTEMBER ..	298.30	8.38	0	8
TOTAL	7062.80	531.89	104	635

11160500 SAN LORENZO RIVER AT BIG TREES, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT							
10...	0800	13.0	132	112	40	--	62
NOV							
10...	1205	10.0	33	26	2.3	--	70
FEB							
29...	1300	10.5	139	206	77	39	--
29...	1700	11.0	398	406	436	--	52
MAR							
01...	1500	10.0	62	87	15	--	82
02...	0800	8.0	83	79	18	--	87
02...	1015	--	160	83	36	--	70
02...	1100	7.0	165	82	37	--	88
02...	1110	7.0	165	93	41	--	79
02...	1115	7.0	165	93	41	--	82
02...	1130	6.5	164	93	41	--	82
02...	1200	6.5	162	92	40	--	87
02...	1235	6.5	170	101	46	--	85
02...	1305	6.0	183	101	50	--	81
02...	1330	6.0	194	105	55	--	81
02...	1430	6.0	209	115	65	--	67
02...	1510	6.0	207	102	57	--	78

DATE	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
OCT						
10...	--	77	--	97	100	--
NOV						
10...	--	92	--	99	100	--
FEB						
29...	71	--	100	--	--	--
29...	--	61	--	92	100	--
MAR						
01...	--	84	--	88	94	100
02...	--	93	--	100	--	--
02...	--	76	--	94	100	--
02...	--	92	--	97	100	--
02...	--	82	--	92	99	100
02...	--	82	--	96	100	--
02...	--	84	--	96	100	--
02...	--	88	--	96	100	--
02...	--	86	--	98	100	--
02...	--	83	--	94	100	--
02...	--	83	--	96	100	--
02...	--	68	--	88	100	--
02...	--	80	--	93	100	--

11160500 SAN LORENZO RIVER AT BIG TREES, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (CFS)	STREAM WIDTH (FT)	SEDIMENT BEDLOAD DISCHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM
OCT							
01...	1555	15.0	--	19	26	.00	--
NOV							
10...	1230	10.0	18	33	38	3.1	--
DEC							
03...	1215	7.0	--	23	36	.00	--
JAN							
06...	1400	7.0	--	22	36	.00	--
FEB							
05...	1400	6.0	--	28	37	.00	--
MAR							
02...	1100	7.0	19	165	58	16	5
MAY							
10...	1635	15.5	--	16	36	.00	--
JUN							
21...	1710	19.0	--	11	18	.00	--

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
OCT							
01...	--	--	--	--	--	--	--
NOV							
10...	11	61	89	97	99	99	100
DEC							
03...	--	--	--	--	--	--	--
JAN							
06...	--	--	--	--	--	--	--
FEB							
05...	--	--	--	--	--	--	--
MAR							
02...	16	62	88	96	99	100	--
MAY							
10...	--	--	--	--	--	--	--
JUN							
21...	--	--	--	--	--	--	--

11161570 MAJORS CREEK NEAR SANTA CRUZ, CA

LOCATION.--Lat 36°59'55", long 122°07'13", in Refugio Grant, Santa Cruz County, on left bank 1.5 mi (2.4 km) downstream from small left-bank tributary, 1.7 mi (2.7 km) upstream from State Highway No. 1, and 5.5 mi (8.8 km) northwest of Santa Cruz Post Office.

DRAINAGE AREA.--3.77 mi^2 (9.76 km^2).

PERIOD OF RECORD.--October 1969 to September 1976 (discontinued).

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).

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 sparling-meter readings furnished by city of Santa Cruz.

AVERAGE DISCHARGE.--7 years, 4.24 ft^3/s (0.120 m^3/s), 2,070 acre-ft/yr (2.55 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 650 ft^3/s (18.4 m^3/s) Apr. 1, 1974, gage height, 6.52 ft (1.987 m), from rating curve extended above 160 ft^3/s (4.53 m^3/s) on basis of slope-area measurement at gage height 5.92 ft (1.804 m); minimum daily, 0.78 ft^3/s (0.022 m^3/s) Aug. 5-10, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24 ft^3/s (0.68 m^3/s) Feb. 29, gage height, 4.25 ft (1.295 m), no peak above base of 80 ft^3/s (2.3 m^3/s); minimum daily, 0.78 ft^3/s (0.022 m^3/s) Aug. 5-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.7	1.3	1.2	1.2	1.2	1.3	1.2	.99	.93	.82	.85
2	1.3	1.6	1.3	1.2	1.2	2.2	1.3	1.2	.99	.93	.81	.85
3	1.3	1.5	1.3	1.2	1.2	1.6	1.3	1.2	.98	.93	.80	.85
4	1.3	1.5	1.3	1.2	1.2	1.6	1.3	1.2	.98	.93	.80	.85
5	1.3	1.5	1.3	1.2	1.2	1.5	1.3	1.2	.98	.93	.78	.85
6	1.3	1.5	1.3	1.2	1.2	1.5	1.3	1.2	.98	.94	.78	.85
7	1.3	1.4	1.3	1.2	1.2	1.5	1.4	1.2	.98	.95	.78	.85
8	1.3	1.4	1.3	1.2	1.2	1.5	3.0	1.2	.98	.96	.78	.85
9	1.4	1.4	1.3	1.2	1.2	1.6	1.7	1.2	.97	.96	.78	.85
10	2.3	1.9	1.3	1.2	1.2	1.5	1.7	1.2	.97	.97	.78	.85
11	1.8	1.7	1.3	1.2	1.2	1.4	1.7	1.2	.97	.98	.79	.85
12	1.6	1.5	1.4	1.2	1.2	1.4	1.6	1.2	.97	.98	.83	.85
13	1.4	1.5	1.6	1.2	1.4	1.3	1.5	1.2	.97	.98	.92	.85
14	1.3	1.4	1.3	1.2	1.3	1.3	1.4	1.2	.97	.99	1.3	.85
15	1.3	1.4	1.3	1.2	1.1	1.3	1.3	1.1	.97	1.0	.92	.85
16	1.3	1.4	1.3	1.2	1.1	1.3	1.2	1.1	.97	1.1	1.0	.85
17	1.3	1.4	1.3	1.2	1.1	1.3	1.2	1.1	1.0	1.0	1.2	.85
18	1.3	1.4	1.3	1.2	1.1	1.3	1.2	1.1	1.0	1.0	1.0	.85
19	1.3	1.4	1.3	1.2	1.1	1.3	1.2	1.1	1.0	1.0	.94	.85
20	1.3	1.4	1.3	1.2	1.1	1.3	1.2	1.1	1.0	.98	.92	.85
21	1.3	1.4	1.3	1.2	1.1	1.3	1.2	1.1	.99	.96	.91	.85
22	1.3	1.4	1.5	1.2	1.1	1.3	1.2	1.1	.97	.94	.90	.85
23	1.4	1.4	1.4	1.2	1.1	1.3	1.2	1.1	.96	.92	.88	.85
24	2.7	1.3	1.3	1.2	1.1	1.3	1.2	1.1	.95	.90	.88	.85
25	1.7	1.3	1.3	1.2	1.1	1.2	1.2	1.0	.93	.90	.87	.85
26	1.3	1.3	1.3	1.2	1.1	1.2	1.2	1.0	.93	.89	.86	.85
27	1.2	1.3	1.2	1.2	2.0	1.2	1.2	1.0	.93	.86	.85	.85
28	1.1	1.3	1.2	1.2	4.1	1.2	1.2	1.0	.93	.86	.85	.85
29	1.3	1.3	1.2	1.2	3.0	1.2	1.2	1.0	.93	.85	.85	.85
30	2.1	1.3	1.2	1.2	---	1.2	1.2	1.0	.93	.83	.85	.85
31	1.8	---	1.2	1.2	---	1.2	---	1.0	---	.82	.85	---
TOTAL	45.2	43.2	40.5	37.2	39.4	42.5	41.1	34.8	29.07	29.17	27.28	25.50
MEAN	1.46	1.44	1.31	1.20	1.36	1.37	1.37	1.12	.97	.94	.88	.85
MAX	2.7	1.9	1.6	1.2	4.1	2.2	3.0	1.2	1.0	1.1	1.3	.85
MIN	1.1	1.3	1.2	1.2	1.1	1.2	1.2	1.0	.93	.82	.78	.85
AC-FT	90	86	80	74	78	84	82	69	58	58	54	51

CAL YR 1975 TOTAL 1155.40 MEAN 3.17 MAX 51 MIN 1.1 AC-FT 2290
WTR YR 1976 TOTAL 434.92 MEAN 1.19 MAX 4.1 MIN .78 AC-FT 863

11161590 LAGUNA CREEK NEAR DAVENPORT, CA

LOCATION.--Lat 37°01'32", long 122°07'48", in SW¼SW¼ sec.30, T.10 S., R.2 W., Santa Cruz County, on right bank 0.2 mi (0.3 km) upstream from Reggiardo Creek, 0.4 mi (0.6 km) downstream from small left-bank tributary, and 3.6 mi (5.8 km) northeast of Davenport.

DRAINAGE AREA.--3.07 mi^2 (7.95 km^2).

PERIOD OF RECORD.--October 1969 to September 1976 (discontinued).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 680 ft (207 m), from topographic map.

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

AVERAGE DISCHARGE.--7 years, 5.02 ft^3/s (0.142 m^3/s), 3,640 acre-ft/yr (4.49 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 283 ft^3/s (8.01 m^3/s) Apr. 1, 1974, gage height, 3.68 ft (1.122 m), from rating curve extended above 120 ft^3/s (3.40 m^3/s); minimum daily, 0.28 ft^3/s (0.008 m^3/s) Aug. 30, 31, 1972, Aug. 8-10, 13, Sept. 1, 6-15, 22-26, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10 ft^3/s (0.28 m^3/s) Feb. 29, gage height, 1.61 ft (0.491 m), no peak above base of 110 ft^3/s (3.1 m^3/s); minimum daily, 0.28 ft^3/s (0.008 m^3/s) Aug. 8-10, 13, Sept. 1, 6-15, 22-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.3	.86	.72	.66	2.5	.79	.72	.41	.36	.32	.28
2	1.2	1.2	.86	.72	.60	2.7	.79	.66	.40	.36	.30	.29
3	1.2	1.1	.86	.79	.60	2.2	.86	.66	.40	.36	.31	.30
4	1.2	1.1	.79	.72	.66	1.7	.86	.66	.40	.36	.30	.30
5	1.2	1.1	.79	.72	.66	1.4	.86	.60	.40	.36	.30	.29
6	1.2	1.0	.79	.72	.66	1.3	1.1	.60	.41	.36	.29	.28
7	1.2	1.0	.79	.79	.66	1.2	1.2	.60	.41	.36	.29	.28
8	1.2	1.0	.79	.79	.72	1.2	1.8	.55	.40	.36	.28	.28
9	1.6	1.0	.72	.86	.72	1.1	1.2	.55	.40	.36	.28	.28
10	1.9	1.2	.79	.79	.66	1.1	1.2	.55	.43	.36	.28	.28
11	1.8	1.1	.79	.79	.66	1.1	1.1	.55	.40	.36	.29	.28
12	1.7	1.0	.93	.79	.66	1.0	1.0	.55	.40	.36	.29	.28
13	1.4	1.0	.86	.72	.66	1.0	1.0	.50	.40	.37	.28	.28
14	1.3	.93	.79	.72	.66	1.0	.93	.50	.39	.38	.31	.28
15	1.3	.93	.79	.72	.86	.93	.93	.50	.39	.37	.44	.28
16	1.3	1.0	.79	.72	.72	.93	.86	.50	.38	.40	.32	.30
17	1.3	.93	.79	.72	.72	.93	.86	.50	.40	.40	.33	.30
18	1.2	.93	.79	.66	.66	.93	.93	.45	.40	.39	.42	.29
19	1.2	.93	.72	.66	.79	.93	.86	.47	.39	.38	.41	.29
20	1.2	.93	.72	.66	.66	.93	.86	.45	.39	.36	.34	.29
21	1.2	.93	.79	.66	.66	.93	.86	.46	.38	.36	.32	.29
22	1.2	.93	.93	.66	.66	.86	.86	.46	.37	.36	.32	.28
23	1.1	.93	.79	.66	.60	.86	.79	.45	.36	.37	.32	.28
24	1.1	.86	.86	.66	.66	.79	.79	.45	.36	.37	.32	.28
25	1.1	.86	.86	.66	.66	.79	.79	.45	.36	.32	.32	.28
26	2.9	.86	.79	.66	.66	.79	.79	.45	.36	.32	.31	.28
27	1.4	.86	.79	.66	.60	.79	.79	.44	.35	.32	.31	.36
28	1.2	.86	.79	.66	.60	.79	.72	.45	.35	.32	.30	.39
29	1.3	.86	.72	.66	3.7	.79	.72	.44	.35	.32	.30	.37
30	2.7	.86	.72	.66	---	.79	.72	.44	.36	.32	.30	.39
31	1.9	---	.72	.66	---	.79	---	.44	---	.34	.29	---
TOTAL	43.9	29.49	24.77	22.04	22.45	35.05	27.82	16.05	11.60	11.09	9.79	8.93
MEAN	1.42	.98	.80	.71	.77	1.13	.93	.52	.39	.36	.32	.30
MAX	2.9	1.3	.93	.86	3.7	2.7	1.8	.72	.43	.40	.44	.39
MIN	1.1	.86	.72	.66	.60	.79	.72	.44	.35	.32	.28	.28
AC-FT	87	58	49	44	45	70	55	32	23	22	19	18

CAL YR 1975	TOTAL	1371.34	MEAN	3.76	MAX	56	MIN	.72	AC-FT 2720
WTR YR 1976	TOTAL	262.98	MEAN	.72	MAX	3.7	MIN	.28	AC-FT 522

11161800 SAN VICENTE CREEK NEAR DAVENPORT, CA

LOCATION.--Lat 37°03'19", long 122°10'52", on east boundary of San Vicente Grant, Santa Cruz County, on right bank, 0.6 mi (1.0 km) downstream from small right-bank tributary, 1.2 mi (1.9 km) upstream from Mill Creek, and 3.1 mi (5.0 km) north of Davenport.

DRAINAGE AREA.--6.07 mi^2 (15.72 km^2).

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

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

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

AVERAGE DISCHARGE.--7 years, 8.52 ft^3/s (0.241 m^3/s), 6,170 acre-ft/yr (7.61 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 937 ft^3/s (26.5 m^3/s) Apr. 1, 1974, gage height, 5.83 ft (1.777 m), from rating curve extended above 210 ft^3/s (5.95 m^3/s); minimum daily, 0.39 ft^3/s (0.011 m^3/s) Aug. 24, 31, Sept. 1, 2, 7, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21 ft^3/s (0.59 m^3/s) Feb. 29, gage height, 3.36 ft (1.024 m), no peak above base of 100 ft^3/s (2.8 m^3/s); minimum daily, 0.60 ft^3/s (0.017 m^3/s) Sept. 1-3, 5-7, 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	2.8	1.6	1.6	1.3	5.1	1.2	1.6	.90	1.0	.69	.60
2	2.2	2.6	1.6	1.6	1.3	5.3	1.2	1.6	.90	.94	.69	.60
3	2.2	2.5	1.6	1.7	1.3	4.6	1.5	1.6	.90	.79	.69	.60
4	2.1	2.3	1.6	1.7	1.5	3.3	1.6	1.6	.90	.90	.69	.69
5	2.1	2.2	1.6	1.8	1.5	2.9	1.8	1.6	.90	.90	.79	.60
6	2.1	2.0	1.6	1.8	1.6	2.5	2.5	1.6	1.0	.79	.79	.60
7	2.2	2.1	1.5	1.7	1.6	2.4	3.2	1.6	1.0	.69	.69	.60
8	2.2	2.2	1.6	1.7	1.8	2.2	5.7	1.6	1.0	.69	.69	.68
9	3.2	2.0	1.5	2.4	1.8	2.2	3.0	1.5	1.0	.69	.69	.60
10	4.1	2.6	1.5	2.0	1.7	2.1	3.1	1.5	1.1	.69	.69	.60
11	2.6	2.1	1.6	1.8	1.7	2.1	2.9	1.5	1.1	.69	.69	.69
12	2.2	1.8	2.2	1.8	1.7	2.1	2.7	1.5	1.1	.79	.69	.69
13	2.3	1.8	1.8	1.7	1.6	2.0	2.5	1.3	1.0	.79	.69	.79
14	2.4	1.7	1.8	1.7	1.7	2.0	2.2	1.2	1.0	.90	.69	.79
15	2.2	1.8	1.8	1.7	2.0	2.0	2.4	1.2	.90	.90	2.7	.79
16	2.2	2.0	1.8	1.6	1.8	1.8	2.4	1.2	.90	1.0	1.1	.90
17	2.2	1.8	1.8	1.6	1.8	1.8	2.2	1.2	.90	1.0	1.1	.90
18	2.2	1.8	1.8	1.6	1.7	1.8	2.2	1.2	1.0	1.1	1.8	.90
19	2.2	1.7	1.8	1.6	2.1	1.8	2.1	1.2	1.0	1.1	1.8	.79
20	2.2	1.7	1.7	1.5	1.8	1.7	2.1	1.2	1.0	1.0	1.2	.79
21	2.1	1.7	2.0	1.5	1.6	1.6	2.0	1.2	1.0	1.0	1.1	.79
22	2.1	1.6	2.4	1.5	1.6	1.6	2.0	1.2	1.0	1.0	.90	.69
23	2.1	1.6	2.0	1.5	1.5	1.5	2.0	1.2	.90	1.0	.90	.69
24	2.1	1.6	1.8	1.5	1.5	1.5	1.8	1.2	.90	.90	.90	.69
25	2.1	1.3	1.8	1.5	1.5	1.5	1.7	1.1	.90	.90	.79	.69
26	6.6	1.3	1.7	1.5	1.5	1.3	1.7	1.1	.79	.90	.79	.79
27	3.0	1.5	1.7	1.5	1.5	1.3	1.7	1.1	.79	.90	.79	1.3
28	2.5	1.5	1.6	1.5	1.5	1.3	1.7	1.1	.69	.69	.79	2.0
29	2.4	1.3	1.6	1.5	7.6	1.3	1.7	1.1	.79	.64	.79	1.3
30	5.9	1.5	1.6	1.3	---	1.3	1.6	1.1	.90	.60	.69	1.7
31	3.3	---	1.6	1.3	---	1.3	---	1.0	---	.69	.69	---
TOTAL	81.5	56.4	53.6	50.7	53.1	67.2	66.4	40.9	28.16	26.57	28.69	24.84
MEAN	2.63	1.88	1.73	1.64	1.83	2.17	2.21	1.32	.94	.86	.93	.83
MAX	6.6	2.8	2.4	2.4	7.6	5.3	5.7	1.6	1.1	1.1	2.7	2.0
MIN	2.1	1.3	1.5	1.3	1.3	1.3	1.2	1.0	.69	.60	.69	.60
AC-FT	162	112	106	101	105	133	132	81	56	53	57	49

CAL YR 1975 TOTAL 2388.50 MEAN 6.54 MAX 71 MIN 1.3 AC-FT 4740
WTR YR 1976 TOTAL 578.06 MEAN 1.58 MAX 7.6 MIN .60 AC-FT 1150

11162500 PESCADERO CREEK NEAR PESCADERO, CA

LOCATION.--Lat 37°15'39", long 122°19'40", in SW¼ sec.5, T.8 S., R.4 W., San Mateo County, on left bank at downstream side of highway bridge, 3.0 mi (4.8 km) east of Pescadero, and 5.3 mi (8.5 km) upstream from mouth.

DRAINAGE AREA.--45.9 mi^2 (118.9 km^2).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1445: 1952-53(M). WSP 1715: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 62.3 ft (18.99 m) above mean sea level.

REMARKS.--Records fair. Minor regulation from swimming pools in San Mateo County Memorial Park and Portola State Park during summer months. Small diversions above station by pumping.

AVERAGE DISCHARGE.--25 years, 40.9 ft^3/s (1.158 m^3/s), 29,630 acre-ft/yr (36.5 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,420 ft^3/s (267 m^3/s) Dec. 23, 1955, gage height, 21.27 ft (6.483 m), from rating curve extended above 2,700 ft^3/s (76.5 m^3/s) on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 86 ft^3/s (2.44 m^3/s) Feb. 29, gage height, 2.34 ft (0.713 m), no peak above base of 700 ft^3/s (20 m^3/s); minimum daily, 0.45 ft^3/s (0.013 m^3/s) Sept. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	7.1	4.2	3.6	3.7	44	4.3	3.0	2.6	.71	.96	.89
2	2.8	5.7	4.3	3.4	3.6	32	4.3	2.9	2.1	.71	1.0	.89
3	2.7	5.1	4.5	3.4	3.6	37	4.2	2.8	2.1	.66	.96	.71
4	2.8	4.9	4.5	3.6	3.6	21	4.2	2.8	2.1	.71	.89	.71
5	2.8	4.9	4.3	3.7	3.7	15	4.0	2.9	2.1	.83	.84	.71
6	2.9	4.9	4.3	3.9	4.5	13	4.3	3.2	2.3	.83	.78	.66
7	2.9	5.1	4.3	4.0	4.3	11	8.6	3.4	2.3	.75	.78	.66
8	3.0	5.1	4.3	4.0	4.2	9.6	21	4.2	2.2	.77	.78	.60
9	3.6	5.3	4.5	5.1	4.9	8.3	18	3.9	2.1	.83	.78	.50
10	18	6.0	4.3	7.2	5.1	7.4	16	3.9	2.6	.83	.78	.45
11	18	7.4	4.3	6.3	4.3	6.8	17	3.6	2.9	.83	.78	.50
12	8.3	4.5	5.1	5.3	4.0	6.5	15	3.0	3.2	.89	.80	.50
13	5.3	4.0	7.3	5.1	4.0	6.0	13	2.8	3.0	1.0	.90	.50
14	4.3	3.9	5.7	4.9	4.7	5.5	11	2.4	2.6	1.0	1.0	.49
15	4.0	3.9	4.5	4.9	5.3	5.3	11	2.1	2.1	1.0	1.2	.52
16	3.9	4.0	4.0	4.7	5.5	5.1	11	2.2	1.7	1.0	1.4	.55
17	3.7	4.2	4.0	4.5	5.3	4.5	10	2.2	1.5	1.1	1.5	.58
18	3.7	4.0	3.9	4.5	4.9	4.9	11	2.2	1.9	1.1	1.7	.53
19	3.7	3.9	3.9	4.5	5.3	5.3	10	2.4	1.8	1.2	1.8	.62
20	3.7	3.9	3.9	4.2	6.5	5.1	8.3	2.2	1.9	1.2	2.1	.61
21	3.7	3.9	3.9	4.0	5.3	4.7	7.1	2.4	1.7	1.1	1.9	.83
22	3.6	3.9	4.5	4.0	4.5	4.5	6.5	2.7	1.6	1.2	1.5	.60
23	3.6	3.9	5.7	3.9	4.0	4.3	6.3	3.0	1.5	1.0	1.2	.56
24	3.6	3.9	4.5	3.9	3.9	4.3	5.7	2.8	1.6	1.0	1.2	.58
25	3.6	4.0	4.0	4.0	3.7	4.2	4.9	2.6	1.4	1.1	1.1	.57
26	8.0	4.0	4.0	3.9	3.7	4.2	3.9	2.4	1.2	1.0	1.1	.56
27	14	4.9	3.9	3.7	3.6	4.2	3.9	2.3	.89	.89	1.1	.64
28	6.5	6.3	3.9	3.7	3.6	4.2	3.4	2.3	.83	.77	1.0	1.0
29	5.1	5.5	3.9	3.7	14	4.3	3.3	2.2	.83	.77	1.0	1.2
30	8.3	4.3	3.7	3.7	---	4.5	3.2	2.3	.77	.89	.96	1.5
31	12	---	3.7	3.7	---	4.3	---	2.6	---	.89	.89	---
TOTAL	174.8	142.4	135.8	133.0	137.3	301.0	254.4	85.7	57.42	28.56	34.68	20.22
MEAN	5.64	4.75	4.38	4.29	4.73	9.71	8.48	2.76	1.91	.92	1.12	.67
MAX	18	7.4	7.3	7.2	14	44	21	4.2	3.2	1.2	2.1	1.5
MIN	2.7	3.9	3.7	3.4	3.6	4.2	3.2	2.1	.77	.66	.78	.45
AC-FT	347	282	269	264	272	597	505	170	114	57	69	40

CAL YR 1975	TOTAL	12180.50	MEAN 33.4	MAX 675	MIN 2.5	AC-FT	24160	
WTR YR 1976	TOTAL	1505.28	MEAN 4.11	MAX 44	MIN .45	AC-FT	2990	

11162500 PESCADERO CREEK NEAR PESCADERO, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to current year.
WATER TEMPERATURES: Water years 1965 to current year.
SEDIMENT RECORDS: Water years 1971, 1973.

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

INSTRUMENTATION.--Temperature recorder since April 1965.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 22.5°C June 27, 1973; minimum (water years 1966, 1968-76), 2.0°C Dec. 19, 1965.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 21.5°C June 27, 28; minimum, 3.0°C Jan. 2-4.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	14.0	---	---	8.0	6.0	5.5	4.0	8.5	6.0	9.5	8.5
2	16.0	14.0	---	---	8.0	6.5	5.0	3.0	8.5	6.0	8.5	6.5
3	15.5	13.0	---	---	8.0	6.0	4.5	3.0	8.5	6.0	6.5	5.5
4	15.5	12.5	---	---	8.0	6.5	5.0	3.0	8.5	7.0	6.5	5.0
5	15.0	12.5	11.0	10.5	8.5	7.5	6.0	4.0	7.5	5.5	7.0	5.0
6	15.0	13.5	11.5	10.5	8.5	7.5	6.5	4.5	6.5	4.5	8.5	7.0
7	---	---	11.0	10.0	8.5	7.0	6.5	4.5	6.5	4.5	9.0	7.0
8	---	---	11.5	10.0	8.5	6.5	6.5	4.5	7.0	5.5	8.5	7.5
9	---	---	10.0	9.0	8.0	6.5	6.5	5.5	8.0	6.5	9.5	7.0
10	---	---	10.5	9.0	8.5	7.5	6.5	5.5	8.0	6.0	9.0	8.5
11	---	---	9.0	8.0	8.5	8.0	6.5	5.0	8.0	5.0	12.0	9.0
12	---	---	8.5	7.5	9.0	8.0	6.5	5.5	8.5	5.5	11.5	8.0
13	---	---	8.5	7.5	8.5	7.5	6.5	5.0	8.5	6.5	11.0	8.0
14	---	---	9.0	7.5	7.5	6.0	7.0	5.0	9.0	7.5	12.0	8.5
15	---	---	9.0	8.0	6.0	4.5	7.5	5.0	9.5	8.0	12.5	9.5
16	---	---	10.0	9.0	6.0	4.5	7.0	5.5	9.0	8.0	13.5	10.0
17	---	---	9.0	7.5	6.0	4.5	7.5	5.5	11.0	9.0	14.0	11.0
18	---	---	8.0	6.5	6.0	4.5	7.5	5.5	11.5	9.0	13.0	11.5
19	---	---	7.0	6.0	6.0	4.0	8.0	6.0	11.0	9.0	13.0	10.0
20	---	---	8.0	6.5	5.5	4.0	8.0	6.0	10.0	8.0	12.5	8.5
21	---	---	8.0	6.5	6.5	4.5	7.5	5.5	9.5	7.0	13.0	8.5
22	---	---	7.5	6.0	8.0	6.5	7.5	5.0	9.5	6.5	13.5	9.5
23	---	---	7.5	6.0	7.5	6.0	7.0	5.0	8.5	7.0	13.0	9.5
24	---	---	8.0	6.0	7.5	6.0	8.5	6.0	10.0	7.0	12.5	9.0
25	---	---	8.5	6.5	7.5	6.5	7.0	5.0	9.5	7.5	12.5	8.5
26	---	---	8.5	7.5	7.5	6.0	6.5	4.5	11.0	7.5	12.0	8.0
27	---	---	9.0	8.0	8.5	7.0	6.5	4.0	11.5	8.0	11.5	8.5
28	---	---	9.0	7.5	8.5	6.5	6.5	4.0	12.0	9.5	12.5	9.5
29	---	---	8.0	6.5	8.5	7.0	6.5	4.0	10.5	9.5	13.5	9.0
30	---	---	7.0	6.0	8.5	7.5	7.0	5.0	---	---	13.5	8.5
31	---	---	---	---	7.5	5.5	7.5	5.5	---	---	12.0	9.5
MONTH	---	---	11.5	6.0	9.0	4.0	8.5	3.0	12.0	4.5	14.0	5.0

11162500 PESCADERO CREEK NEAR PESCADERO, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

11162570 SAN GREGORIO CREEK AT SAN GREGORIO, CA

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

DRAINAGE AREA.--50.9 mi^2 (131.8 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 11.40 ft (3.475 m) above mean sea level.

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

AVERAGE DISCHARGE.--7 years, 39.0 ft^3/s (1.104 m^3/s), 28,260 acre-ft/yr (34.8 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 67 ft^3/s (1.90 m^3/s) Feb. 29, gage height, 3.88 ft (1.183 m), no peak above base of 1,000 ft^3/s (28 m^3/s); minimum daily, 0.01 ft^3/s (<0.001 m^3/s) Aug. 5-12, Sept. 14-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	6.1	3.7	3.3	2.7	22	2.9	3.1	1.3	.17	.02	.06
2	1.9	5.2	3.7	3.3	2.7	25	2.9	2.7	1.3	.14	.02	.05
3	1.6	5.0	3.7	3.3	2.7	27	3.1	2.9	1.4	.12	.02	.04
4	1.8	4.4	3.7	3.3	2.9	15	4.2	2.9	1.4	.10	.02	.03
5	1.8	4.2	3.7	5.2	2.9	11	4.2	2.7	1.3	.09	.01	.12
6	1.5	4.0	3.7	4.0	3.1	8.7	4.2	2.7	1.3	.07	.01	.12
7	1.5	4.0	3.5	4.0	3.1	7.6	5.5	2.5	1.4	.06	.01	.03
8	1.8	5.0	3.5	3.5	3.7	6.7	13	2.4	1.6	.05	.01	.03
9	2.1	4.7	3.5	5.5	4.7	6.1	8.3	2.2	1.8	.05	.01	.03
10	8.6	5.8	3.5	7.0	4.0	5.8	7.0	2.1	1.9	.05	.01	.02
11	10	6.1	3.5	5.0	3.5	5.8	9.5	2.4	1.5	.14	.01	.02
12	5.5	4.4	4.0	4.2	3.5	5.0	9.5	2.1	1.1	.08	.01	.02
13	4.2	4.0	5.5	4.0	3.5	4.7	8.3	1.6	.89	.05	.02	.02
14	3.5	3.5	4.7	3.7	5.2	4.2	7.0	1.5	.69	.04	.02	.01
15	3.3	3.5	4.0	3.5	6.1	4.2	6.4	1.4	.57	.04	.56	.01
16	2.9	5.2	3.5	3.5	6.1	4.2	5.8	1.4	.44	.04	2.7	.01
17	2.9	5.8	3.5	3.5	6.1	4.0	5.2	1.3	.40	.04	1.2	.01
18	2.9	4.4	3.5	3.1	5.5	4.0	6.4	1.4	.36	.04	2.1	.01
19	2.9	4.0	3.7	3.1	5.8	4.2	6.1	1.8	.40	.04	6.7	.01
20	2.9	3.7	3.7	3.1	6.4	4.0	5.0	1.8	.45	.04	4.1	.03
21	2.7	3.7	3.7	2.9	5.0	3.5	4.2	1.6	.41	.04	1.9	.03
22	2.7	3.7	4.7	2.7	4.7	3.5	4.2	1.6	.38	.03	1.2	.03
23	2.5	3.7	4.7	2.7	4.2	3.3	4.2	1.5	.35	.03	.88	.02
24	2.5	3.5	4.2	2.7	4.0	3.3	4.0	1.5	.37	.03	.68	.02
25	2.5	3.3	4.0	2.9	4.2	3.5	4.0	1.4	.33	.03	.59	.02
26	18	3.1	4.0	2.7	3.7	3.5	3.7	1.3	.28	.03	.31	.02
27	11	4.2	4.0	2.5	3.3	3.5	3.3	1.4	.23	.03	.10	.03
28	6.1	5.0	3.5	2.7	3.3	3.5	3.5	1.5	.19	.03	.33	.06
29	4.7	4.4	3.5	2.7	15	3.5	3.5	1.6	.19	.03	.49	.27
30	10	4.0	3.5	2.7	---	3.3	3.3	1.5	.19	.03	.25	.78
31	9.1	---	3.5	2.5	---	3.1	---	1.3	---	.03	.07	---
TOTAL	137.6	131.6	119.1	108.8	131.6	216.7	162.4	59.1	24.42	1.79	24.36	1.96
MEAN	4.44	4.39	3.84	3.51	4.54	6.99	5.41	1.91	.81	.058	.79	.065
MAX	18	6.1	5.5	7.0	15	27	13	3.1	1.9	.17	6.7	.78
MIN	1.5	3.1	3.5	2.5	2.7	3.1	2.9	1.3	.19	.03	.01	.01
AC-FT	273	261	236	216	261	430	322	117	48	3.6	48	3.9

CAL YR 1975	TOTAL	9352.00	MEAN 25.6	MAX 532	MIN 1.5	AC-FT	18550
WTR YR 1976	TOTAL	1119.43	MEAN 3.06	MAX 27	MIN .01	AC-FT	2220

11162630 PILARCITOS CREEK AT HALF MOON BAY, CA

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

DRAINAGE AREA.--27.2 mi^2 (70.4 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 23.59 ft (7.190 m) above mean sea level.

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

AVERAGE DISCHARGE (unadjusted).--10 years, 14.2 ft^3/s (0.402 m^3/s), 10,290 acre-ft/yr (12.7 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,290 ft^3/s (36.5 m^3/s) Jan. 30, 1968, gage height, 11.20 ft (3.414 m); no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 99 ft^3/s (2.80 m^3/s) Nov. 8, gage height, 3.77 ft (1.149 m), no peak above base of 200 ft^3/s (5.7 m^3/s); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	3.0	1.8	1.4	.66	3.4	.58	.05	.01			
2	.32	2.3	1.8	1.4	.78	4.7	.55	.05	0			
3	.22	2.0	1.8	1.3	.62	3.8	1.1	.16	0			
4	.33	2.0	1.9	1.4	.78	3.0	1.2	.04	0			
5	.49	2.0	1.8	1.4	.95	2.6	1.1	.25	0			
6	.49	1.9	1.6	1.4	.98	2.3	1.1	.36	0			
7	.90	2.2	1.6	1.3	.90	2.0	2.7	.63	0			
8	.49	4.2	1.5	1.4	.92	2.0	2.9	.52	0			
9	1.2	2.1	1.1	2.1	.85	2.0	1.7	.31	0			
10	3.8	3.0	1.3	1.5	1.2	1.9	2.7	.39	0			
11	4.2	1.9	1.3	1.5	.90	1.8	2.0	.24	0			
12	1.7	1.8	1.2	1.4	.90	1.6	2.4	.06	0			
13	1.4	1.8	.84	1.4	1.4	1.6	1.6	0	0			
14	1.7	1.9	.90	1.2	2.0	1.6	1.5	0	0			
15	1.4	2.3	1.0	1.2	1.2	1.6	1.5	0	0			
16	1.2	3.0	1.1	1.2	1.2	1.1	1.3	0	0			
17	1.4	2.1	1.1	1.2	1.2	1.1	1.0	.04	0			
18	1.4	2.0	1.1	1.1	1.4	1.6	1.1	.02	0			
19	1.2	1.8	.98	1.3	1.7	1.5	1.2	.01	0			
20	1.2	1.5	1.0	.91	1.2	1.3	.80	0	0			
21	1.2	1.5	1.3	.92	.90	1.2	.77	0	0			
22	1.2	1.6	1.4	.77	.90	1.2	.92	0	0			
23	.90	1.6	1.1	.71	1.2	1.2	.68	0	0			
24	2.0	1.3	.98	.82	.90	1.2	.69	0	0			
25	2.6	1.3	1.1	.84	.90	1.5	.57	0	0			
26	11	1.6	1.1	.78	.90	1.5	.65	0	0			
27	5.2	1.9	1.1	.73	.90	1.5	.45	0	0			
28	3.4	1.7	1.2	.61	.90	1.4	.15	.03	0			
29	6.3	1.4	1.2	.65	5.9	1.1	.10	.13	0			
30	11	1.5	1.2	.66	---	.65	.15	.01	0			
31	4.2	---	1.6	.71	---	.65	---	.03	---			---
TOTAL	74.44	60.2	40.00	35.21	35.14	55.60	35.16	3.33	.01	0	0	0
MEAN	2.40	2.01	1.29	1.14	1.21	1.79	1.17	.11	.0003	0	0	0
MAX	11	4.2	1.9	2.1	5.9	4.7	2.9	.63	.01	0	0	0
MIN	.22	1.3	.84	.61	.62	.65	.10	0	0	0	0	0
AC-FT	148	119	79	70	70	110	70	6.6	.02	0	0	0
(†)	284	212	143	6.0	28	6.2	13	57	116	116	110	62

CAL YR 1975 TOTAL 3244.09 MEAN 8.89 MAX 189 MIN .18 AC-FT 6430
WTR YR 1976 TOTAL 339.09 MEAN .93 MAX 11 MIN 0 AC-FT 673

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

11162720 COLMA CREEK AT SOUTH SAN FRANCISCO, CA

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

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

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 12.53 ft (3.819 m) above mean sea level. Recording rain gages at Skyline College, altitude, 700 ft (213 m) at site 2.9 mi (4.7 km) southwest of gaging station and on San Bruno Mt., altitude, 930 ft (283 m) at site 2.7 mi (4.3 km) northwest of gaging station.

REMARKS.--Records fair. Low flow affected by return flow from urban irrigation.

AVERAGE DISCHARGE.--13 years, 7.07 ft^3/s (0.200 m^3/s), 5,120 acre-ft/yr (6.31 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,880 ft^3/s (81.6 m^3/s) Jan. 16, 1973, gage height, 11.80 ft (3.597 m); no flow Oct. 5, 26, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 610 ft^3/s (17.3 m^3/s) Oct. 29 (2215 hrs), gage height, 6.50 ft (1.981 m), peak above base of 600 ft^3/s (17 m^3/s); minimum daily, 0.13 ft^3/s (0.004 m^3/s) Mar. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.89	.43	.31	.33	.39	4.5	.51	1.0	1.2	1.3	.89	.57
2	1.2	.45	.31	.38	.32	79	.82	.90	1.3	1.5	.76	.67
3	.94	.43	.29	.35	.32	1.0	4.7	.80	1.8	1.1	1.5	.65
4	1.1	.43	.24	.37	.57	.43	.49	.71	1.7	1.4	1.9	.59
5	.85	.88	.35	.95	13	.45	.57	.80	.59	1.5	1.5	.59
6	1.6	.76	.26	.39	.76	.43	1.8	1.0	.63	2.3	1.6	.59
7	1.3	8.9	.26	.54	.72	.35	36	1.1	1.2	2.3	1.5	.60
8	.80	.80	.38	.41	.73	.38	1.9	1.2	1.5	1.7	1.3	.60
9	57	4.8	.34	29	.28	.39	.50	1.1	1.5	1.6	1.1	.59
10	31	7.0	.36	.56	.26	.30	37	1.3	1.8	1.6	1.1	.62
11	1.2	.69	.36	.46	.30	.14	.73	1.6	2.5	1.4	1.3	1.4
12	.62	.51	2.1	.67	.32	.22	.56	1.5	1.7	1.9	1.4	.80
13	.60	.43	.80	1.1	20	.24	.53	1.6	1.4	1.5	2.0	.81
14	.71	.25	.73	.62	9.0	.17	.55	1.6	2.0	1.4	2.5	.80
15	.59	.34	.59	.55	.38	.22	.60	1.4	1.4	1.4	22	.81
16	.67	.99	.65	.59	2.5	.27	1.1	1.2	1.6	1.4	.65	.81
17	.65	.43	.81	.56	.43	.16	.72	1.6	2.1	1.3	.65	.94
18	.59	.30	.79	.37	1.2	17	.62	1.2	1.5	1.3	25	1.1
19	.59	.27	.59	.43	3.2	.32	1.2	1.2	1.0	1.3	1.0	1.4
20	.59	1.2	.59	.84	.58	.38	1.2	1.2	.90	1.3	.66	2.2
21	.59	.38	11	.44	.96	.36	.75	1.4	2.0	1.2	.62	2.3
22	.59	.33	3.1	.43	.83	.34	1.2	1.2	2.5	1.2	.64	2.2
23	.67	.32	.57	.44	.68	.31	.66	1.2	1.6	1.1	.96	2.1
24	.65	.21	.41	.48	.44	.58	.62	1.6	1.8	1.0	.94	2.1
25	7.1	.21	.30	.42	.65	.35	.73	1.2	1.7	.95	.64	2.8
26	65	1.1	.30	.50	.43	.34	1.2	1.6	2.0	.95	.63	3.0
27	.87	.44	.36	.61	.47	.26	1.1	1.2	2.1	.95	.64	2.7
28	.90	.37	.43	.69	.56	.13	1.2	1.6	2.0	.95	.49	5.1
29	34	.37	.43	.86	65	.24	1.5	1.2	1.4	.97	.56	1.1
30	15	.30	.53	.62	---	.29	1.3	1.7	1.2	1.2	.60	3.9
31	.58	---	.35	.52	---	.81	---	1.8	---	1.1	.69	---
TOTAL	229.44	34.32	28.89	45.48	125.28	110.36	102.36	39.71	47.62	42.07	77.72	44.44
MEAN	7.40	1.14	.93	1.47	4.32	3.56	3.41	1.28	1.59	1.36	2.51	1.48
MAX	65	8.9	11	29	65	79	37	1.8	2.5	2.3	25	5.1
MIN	.58	.21	.24	.33	.26	.13	.49	.71	.59	.95	.49	.57
AC-FT	455	68	57	90	248	219	203	79	94	83	154	88
(†)	1.03	.18	.16	.32	1.01	.94	.61	.03	.02	.08	.85	.19
(‡)	3.20	.32	.34	.49	2.24	1.49	1.63	0	.03	.16	1.22	.20

CAL YR 1975 TOTAL 1859.10 MEAN 5.09 MAX 153 MIN .21 AC-FT 3690
WTR YR 1976 TOTAL 927.69 MEAN 2.53 MAX 79 MIN .13 AC-FT 1840

† Precipitation, in inches, at San Bruno Mt. gage.
‡ Precipitation, in inches, at Skyline College gage.

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to September 1976 (discontinued).
WATER TEMPERATURES: Water years 1970 to September 1976 (discontinued).
SEDIMENT RECORDS: Water years 1966 to March 1976 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1969 to September 1976 (discontinued).
SEDIMENT RECORDS: October 1965 to March 1976 (seasonal record only for water years 1972-76), discontinued.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 19,800 mg/L Jan. 21, 1967; minimum daily mean, 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.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 625 mg/L Oct. 26; minimum daily mean, 9 mg/L on several days during October and November.
SEDIMENT DISCHARGE: Maximum daily, 460 tons (417 tonnes) Feb. 29; minimum daily, 0.01 ton (0.01 tonne) on many days.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	10.5	---	---	---	25.0	---	19.5
2	---	---	---	---	15.0	8.0	---	---	22.0	---	19.0	---
3	---	---	13.0	---	---	---	12.5	---	---	---	---	---
4	---	---	---	---	---	---	---	14.0	---	---	---	---
5	---	---	---	14.0	7.0	---	15.5	15.5	---	---	---	---
6	---	16.5	---	---	---	---	---	---	---	---	---	---
7	---	11.0	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	15.0	12.5	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	13.5	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	16.5	---	15.0	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	11.5	---	---	14.0	12.5	---	---	---	---	---	---
20	---	11.0	---	---	12.5	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	12.0	---	---	---	---	---	---
23	---	---	---	---	---	10.5	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	9.5	---	---	---	---	---	---
26	---	---	---	12.0	---	15.5	---	---	---	---	---	---
27	---	---	---	---	13.0	---	---	---	---	---	---	---
28	---	11.5	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	13.0	---	---	---	---	---	---	---
30	---	---	11.0	---	---	10.5	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	.89	11	.03	.43	9	.01	.31	31	.03
2	1.2	11	.04	.45	9	.01	.31	31	.03
3	.94	11	.03	.43	9	.01	.29	30	.02
4	1.1	11	.03	.43	9	.01	.24	28	.02
5	.85	11	.03	.88	10	.02	.35	26	.02
6	1.6	11	.05	.76	9	.02	.26	24	.02
7	1.3	11	.04	8.9	88	16	.26	22	.02
8	.80	11	.02	.80	15	.03	.38	20	.02
9	57	515	341	4.8	56	6.6	.34	18	.02
10	31	311	168	7.0	68	8.4	.36	16	.02
11	1.2	20	.06	.69	15	.03	.36	14	.01
12	.62	15	.03	.51	15	.02	2.1	20	.38
13	.60	11	.02	.43	15	.02	.80	10	.02
14	.71	11	.02	.25	15	.01	.73	10	.02
15	.59	11	.02	.34	15	.01	.59	10	.02
16	.67	11	.02	.99	19	.10	.65	10	.02
17	.65	11	.02	.43	15	.02	.81	10	.02
18	.59	11	.02	.30	15	.01	.79	10	.02
19	.59	11	.02	.27	15	.01	.59	10	.02
20	.59	11	.02	1.2	32	.27	.59	10	.02
21	.59	11	.02	.38	32	.03	11	112	12
22	.59	11	.02	.33	32	.03	3.1	32	3.2
23	.67	11	.02	.32	32	.03	.57	10	.02
24	.65	11	.02	.21	32	.02	.41	10	.01
25	7.1	72	12	.21	32	.02	.30	10	.01
26	65	625	352	1.1	36	.17	.30	10	.01
27	.87	9	.02	.44	30	.04	.36	10	.01
28	.90	9	.02	.37	32	.03	.43	10	.01
29	34	431	347	.37	32	.03	.43	11	.01
30	15	180	40	.30	32	.03	.53	12	.02
31	.58	9	.01	---	---	---	.35	11	.01
MONTH	229.44	---	1260.65	34.32	---	32.04	28.89	---	16.08

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.33	11	.01	.39	13	.01	4.5	52	2.0
2	.38	11	.01	.32	13	.01	79	508	271
3	.35	11	.01	.32	11	.01	1.0	29	.08
4	.37	11	.01	.57	10	.02	.43	29	.03
5	.95	15	.04	13	124	18	.45	29	.04
6	.39	11	.01	.76	16	.24	.43	29	.03
7	.54	11	.02	.72	13	.08	.35	29	.03
8	.41	10	.01	.73	12	.04	.38	29	.03
9	29	265	98	.28	9	.01	.39	29	.03
10	.56	12	.02	.26	9	.01	.30	29	.02
11	.46	12	.01	.30	9	.01	.14	29	.01
12	.67	12	.02	.32	9	.01	.22	31	.02
13	1.1	12	.04	20	192	44	.24	25	.02
14	.62	11	.02	9.0	88	22	.17	25	.01
15	.55	10	.01	.38	12	.01	.22	25	.01
16	.59	10	.02	2.5	31	1.9	.27	25	.02
17	.56	10	.02	.43	12	.01	.16	25	.01
18	.37	10	.01	1.2	25	.53	17	75	50
19	.43	10	.01	3.2	49	2.0	.32	18	.02
20	.84	15	.05	.58	16	.03	.38	18	.02
21	.44	13	.02	.96	16	.04	.36	18	.02
22	.43	13	.02	.83	16	.04	.34	18	.02
23	.44	13	.02	.68	17	.03	.31	41	.03
24	.48	13	.02	.44	17	.02	.58	42	.07
25	.42	13	.01	.65	17	.03	.35	36	.03
26	.50	13	.02	.43	18	.02	.34	37	.03
27	.61	13	.02	.47	18	.02	.26	37	.03
28	.69	13	.02	.56	18	.03	.13	36	.01
29	.86	13	.03	65	559	460	.24	36	.02
30	.62	13	.02	---	---	---	.29	36	.03
31	.52	13	.02	---	---	---	.81	37	.08
MONTH	45.48	---	98.57	125.28	---	549.16	110.36	---	323.80
PERIOD	573.77		2280.30						

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

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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
FEB							
19...	1145	14.0	2.1	31	.18	--	--
29...	1455	13.0	25	128	8.6	--	--
29...	1515	13.0	8.7	116	2.7	--	--
MAR							
01...	1005	10.5	8.0	73	1.6	--	--
02...	0805	6.0	131	743	263	37	46
02...	1235	7.0	563	602	915	44	56
02...	1340	8.0	106	658	188	36	48
02...	1410	8.0	61	529	87	49	61

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							
19...	--	--	--	92	96	100	--
29...	--	--	--	92	93	97	100
29...	--	--	--	93	94	97	100
MAR							
01...	--	--	--	92	94	97	100
02...	54	63	71	78	90	99	100
02...	66	76	84	90	96	100	--
02...	59	70	79	85	94	100	--
02...	73	84	92	97	100	--	--

11162800 REDWOOD CREEK AT REDWOOD CITY, CA

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

DRAINAGE AREA.--1.82 mi^2 (4.71 km^2).

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

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 83.92 ft (25.579 m) above mean sea level.

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

AVERAGE DISCHARGE.--17 years, 1.05 ft^3/s (0.030 m^3/s), 761 acre-ft/yr (938,000 m^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 644 ft^3/s (18.2 m^3/s) Jan. 31, 1963, gage height, 9.36 ft (2.853 m), from rating curve extended above 180 ft^3/s (5.10 m^3/s) on basis of slope-area measurement of maximum flow and computation of maximum flow through culvert; maximum gage height, 11.55 ft (3.520 m) Nov. 29, 1970 (backwater from culvert trash racks); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 60 ft^3/s (1.70 m^3/s) Feb. 29, gage height, 2.89 ft (0.881 m), no peak above base of 100 ft^3/s (2.8 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.07	.09	.09	.11	.04	1.3	.09	.09	0	.02	.01	0
2	.06	.08	.09	.08	.04	4.9	.10	.11	0	.02	.01	0
3	.06	.08	.08	.08	.05	1.2	.19	.07	.05	.03	0	0
4	.05	.08	.09	.07	.05	.44	.16	.06	.01	.02	0	0
5	.06	.08	.11	.19	.59	.29	.13	.06	0	.02	0	.07
6	.05	.07	.12	.06	.11	.22	.11	.05	0	.01	0	0
7	.05	.09	.18	.06	.05	.17	.96	.04	.01	.01	0	0
8	.09	.09	.12	.07	.62	.19	.87	.04	.01	.01	0	0
9	.50	.17	.15	.72	.14	.14	.19	.04	.01	.01	0	.02
10	2.5	1.1	.16	.09	.07	.13	.77	.04	0	.01	0	0
11	.50	.10	.11	.08	.06	.12	.33	.03	.01	.01	0	0
12	.08	.09	1.0	.08	.05	.10	.83	.02	.01	.01	0	0
13	.08	.08	.11	.05	.05	.10	.24	.02	0	.01	0	.01
14	.08	.08	.09	.06	.09	.10	.18	.02	.01	.01	0	0
15	.07	.08	.11	.06	.23	.10	.16	.02	.01	.01	.18	.02
16	.07	.10	.13	.07	.07	.10	.19	.02	.01	.01	0	.05
17	.07	.09	.11	.05	.06	.10	.21	.01	.01	.02	.02	.05
18	.08	.09	.10	.05	.05	.38	.16	.01	.02	.01	.40	.06
19	.08	.10	.15	.05	.44	.12	.16	.01	.03	.01	.18	.06
20	.08	.10	.21	.06	.08	.13	.12	.01	.10	.02	.01	.06
21	.09	.09	.18	.05	.06	.15	.12	.01	.01	.01	0	.11
22	.09	.09	.15	.05	.06	.18	.10	.01	.01	.01	.03	.02
23	.09	.09	.12	.11	.06	.08	.10	.01	.01	.01	0	.04
24	.10	.08	.10	.06	.06	.08	.09	.01	.01	.01	0	0
25	.12	.09	.10	.04	.06	.15	.32	.01	.01	.01	0	0
26	1.2	.09	.10	.04	.05	.09	.12	.08	.02	.01	0	.01
27	.19	.10	.08	.04	.05	.09	.10	.01	.02	.01	0	.01
28	.08	.29	.07	.05	.05	.09	.10	.01	.02	.01	.01	.04
29	.44	.09	.09	.05	10	.10	.10	.01	.01	.01	.01	.07
30	3.0	.09	.11	.05	---	.36	.10	.01	.01	.01	0	.26
31	.17	---	.14	.04	---	.11	---	0	---	.01	0	---
TOTAL	10.25	3.94	4.55	2.72	13.39	11.81	7.40	.94	.43	.39	.86	.96
MEAN	.33	.13	.15	.088	.46	.38	.25	.030	.014	.013	.028	.032
MAX	3.0	1.1	1.0	.72	10	4.9	.96	.11	.10	.03	.40	.26
MIN	.05	.07	.07	.04	.04	.08	.09	0	0	.01	0	0
AC-FT	20	7.8	9.0	5.4	27	23	15	1.9	.9	.8	1.7	1.9

CAL YR 1975 TOTAL 326.69 MEAN .90 MAX 47 MIN .04 AC-FT 648
WTR YR 1976 TOTAL 57.64 MEAN .16 MAX 10 MIN 0 AC-FT 114

11164500 SAN FRANCISQUITO CREEK AT STANFORD UNIVERSITY, CA

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

DRAINAGE AREA.--37.4 mi^2 (96.9 km^2).

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 115.75 ft (35.281 m) above mean sea level.

REMARKS.--Records good. Flow regulated by Searsville Lake 5 mi (8 km) upstream, capacity, 952 acre-ft (1.17 hm^3). Diversions of about 800 acre-ft (986,000 m^3) each year above station to Los Trancos and Lagunita Canals for irrigation on Stanford University campus below station. Low flow affected by waste water from Stanford Linear Accelerator.

AVERAGE DISCHARGE.--37 years, 18.4 ft^3/s (0.521 m^3/s), 13,330 acre-ft/yr (16.4 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,560 ft^3/s (157 m^3/s) Dec. 22, 1955, gage height, 13.60 ft (4.145 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 82 ft^3/s (2.32 m^3/s) Feb. 29, gage height, 1.66 ft (0.506 m), no peak above base of 700 ft^3/s (20 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.36	.91	1.6	.74	.69	5.3	.47	.17	.04	0	.01	.03
2	.58	.67	1.6	.77	.75	16	.58	.18	.02	0	0	.06
3	.68	.61	1.5	.82	.78	5.3	.69	.16	.01	0	0	.07
4	.69	.53	1.5	1.0	.80	.59	1.4	.12	.02	0	.02	.04
5	1.1	.55	1.4	.93	2.0	.36	.61	.14	.02	0	.01	.26
6	.59	.61	1.1	.79	.85	.24	.53	.15	.01	0	.01	.30
7	1.1	.69	1.1	.81	.69	.18	1.2	.21	.02	0	0	.18
8	1.9	.71	1.0	.81	1.6	.18	4.0	.19	.06	0	.07	.29
9	2.1	.65	1.0	1.9	.89	.18	1.6	.10	.02	0	.10	.22
10	2.4	2.1	1.3	1.2	.78	.59	1.5	.04	.04	0	.09	.09
11	2.1	1.3	1.3	.85	.59	.59	1.6	.17	.06	0	.09	.07
12	.63	.71	1.7	.69	.51	.51	2.4	.10	.03	0	.12	.06
13	.48	.35	1.0	.63	.51	.51	1.5	.04	.04	0	.07	.14
14	.39	.22	1.0	.61	.51	.51	1.4	.01	.04	0	.04	.11
15	.38	.45	1.1	.63	.59	.51	1.1	.03	.08	0	.31	.19
16	.42	.67	1.1	.66	.45	.51	1.0	.10	.03	.08	.07	.21
17	.50	.66	1.1	.71	.51	.51	.67	.07	.01	.13	.04	.20
18	.58	.64	1.1	.74	.51	.78	.45	.10	0	.13	.79	.15
19	.57	.58	1.1	.72	.78	.59	.52	.07	0	.15	1.3	.44
20	.51	.96	1.0	.65	.59	.59	.48	.04	0	.02	.28	.33
21	.80	.87	1.0	.65	.59	.59	.58	.02	0	.01	.10	.34
22	.66	.79	1.2	.65	.51	.43	.50	.06	0	0	.10	.28
23	.43	.85	.76	.74	.43	.51	.40	.08	0	0	.25	.21
24	.67	.89	.78	.74	.43	.65	.39	.05	0	.02	.11	.39
25	.63	1.1	.78	.65	.43	.52	.58	.04	0	.02	.38	.33
26	1.9	1.2	.73	.63	.51	.51	.34	.04	0	.02	.11	.22
27	1.2	1.4	.69	.66	.51	.61	.28	.02	0	.04	.03	.14
28	.80	1.7	.65	.66	.59	.48	.23	.02	0	.01	.04	.56
29	.61	1.5	.73	.62	21	.56	.19	0	0	.01	.12	.57
30	4.2	1.5	.68	.69	---	.51	.18	.01	0	0	.25	1.3
31	1.8	---	.70	.77	---	.57	---	.06	---	.03	.08	---
TOTAL	31.76	26.37	33.30	24.12	40.38	40.47	27.37	2.59	.55	.67	4.99	7.78
MEAN	1.02	.88	1.07	.78	1.39	1.31	.91	.084	.018	.022	.16	.26
MAX	4.2	2.1	1.7	1.9	21	16	4.0	.21	.08	.15	1.3	1.3
MIN	.36	.22	.65	.61	.43	.18	.18	0	0	0	0	.03
AC-FT	63	52	66	48	80	80	54	5.1	1.1	1.3	9.9	15

CAL YR 1975 TOTAL 4735.09 MEAN 13.0 MAX 447 MIN .04 AC-FT 9390
WTR YR 1976 TOTAL 240.35 MEAN .66 MAX 21 MIN 0 AC-FT 477

11166000 MATADERO CREEK AT PALO ALTO, CA

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

DRAINAGE AREA.--7.24 mi^2 (18.75 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 22.07 ft (6.727 m) above mean sea level. Prior to Sept. 25, 1958, at site 150 ft (46 m) downstream at different datum.

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

AVERAGE DISCHARGE.--24 years, 1.79 ft^3/s (0.051 m^3/s), 1,300 acre-ft/yr (1.60 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,100 ft^3/s (31.2 m^3/s) Feb. 27, 1973, gage height, 5.57 ft (1.698 m), from rating curve extended above 150 ft^3/s (4.25 m^3/s) on basis of step-backwater computations at gage heights 3.68 ft (1.122 m) and 5.33 ft (1.625 m); maximum gage height, 9.88 ft (3.011 m) Dec. 23, 1955, site and datum then in use (backwater from culvert); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 81 ft^3/s (2.29 m^3/s) Oct. 10, gage height, 1.43 ft (0.436 m), no peak above base of 200 ft^3/s (5.7 m^3/s); minimum daily, 0.07 ft^3/s (0.002 m^3/s) Apr. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.14	.15	.13	.12	.17	3.3	.12	.15	.25	.26	.14	.16
2	.11	.14	.14	.14	.13	13	.12	.14	.19	.24	.14	.14
3	.11	.15	.11	.14	.17	1.9	1.2	.16	.15	.27	.13	.16
4	.10	.14	.13	.14	.22	.21	.54	.19	.19	.25	.14	.18
5	.11	.15	.17	.15	5.8	.12	.12	.20	.12	.22	.16	.16
6	.08	.14	.17	.13	.29	.14	.10	.33	.17	.17	.16	.16
7	.08	.16	.24	.13	.12	.10	1.2	.23	.13	.17	.18	.16
8	.11	.12	.17	.15	3.5	.11	2.1	.18	.12	.19	.14	.16
9	1.5	.23	.19	3.5	.34	.12	.12	.15	.22	.22	.12	.16
10	5.1	1.2	.22	.20	.13	.14	2.0	.13	.33	.18	.13	.16
11	2.8	.09	.14	.13	.13	.13	.20	.16	.20	.22	.14	1.3
12	.13	.11	1.4	.15	.12	.16	.15	.25	.20	.17	.15	.25
13	.28	.12	.14	.13	.22	.17	.08	.23	.19	.19	.14	.15
14	.12	.22	.13	.15	.18	.15	.12	.22	.21	.17	.14	.15
15	.14	.20	.15	.14	.15	.15	.07	.20	.22	.16	.95	.15
16	.12	.44	.17	.13	.13	.15	.09	.21	.25	.17	.11	.16
17	.14	.10	.14	.13	.12	.13	.09	.17	.22	.15	.91	.16
18	.20	.12	.14	.13	.11	.35	.14	.21	.23	.24	2.7	.16
19	.13	.12	.23	.13	.73	.11	.13	.19	.25	.18	2.0	.15
20	.15	.11	.24	.15	.11	.11	.13	.16	.23	.15	.17	.15
21	.17	.15	.23	.16	.11	.15	.11	.19	.23	.16	.12	.15
22	.15	.10	.21	.13	.10	.14	.12	.25	.24	.16	.48	.12
23	.12	.08	.15	.14	.10	.15	.11	.18	.30	.19	.13	.10
24	.15	.09	.13	.17	.15	.22	.12	.20	.28	.15	.10	.10
25	.14	.13	.13	.15	.12	.12	.10	.16	.25	.16	.10	.10
26	2.1	.13	.13	.14	.10	.14	.10	.18	.18	.15	.10	.10
27	.19	.10	.11	.14	.10	.49	.14	.22	.19	.14	.14	.10
28	.17	.13	.10	.20	.13	.44	.17	.25	.19	.13	.14	.50
29	.54	.10	.13	.14	12	.61	.14	.20	.18	.16	.15	2.3
30	4.9	.10	.15	.14	---	.13	.17	.24	.22	.17	.12	2.8
31	.18	---	.12	.14	---	.10	---	.20	---	.17	.15	---
TOTAL	20.46	5.32	6.14	7.82	25.78	23.44	10.10	6.13	6.33	5.71	10.58	10.75
MEAN	.66	.18	.20	.25	.89	.76	.34	.20	.21	.18	.34	.36
MAX	5.1	1.2	1.4	3.5	12	13	2.1	.33	.33	.27	2.7	2.8
MIN	.08	.08	.10	.12	.10	.10	.07	.13	.12	.13	.10	.10
AC-FT	41	11	12	16	51	46	20	12	13	11	21	21

CAL YR 1975 TOTAL 629.88 MEAN 1.73 MAX 58 MIN .04 AC-FT 1250
WTR YR 1976 TOTAL 138.56 MEAN .38 MAX 13 MIN .07 AC-FT 275

11166480 STEVENS CREEK RESERVOIR NEAR MONTE VISTA, CA

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

DRAINAGE AREA.--17.3 mi^2 (44.8 km^2).

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

GAGE.--Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Santa Clara Valley Water District).

REMARKS.--Reservoir is formed by earthfill dam completed in 1936. Capacity, 3,600 acre-ft (4.44 hm^3) between elevations 444.9 ft (135.61 m), invert of outlet tunnel and 534.8 ft (163.01 m), crest of spillway. Water released down Stevens Creek for irrigation and ground-water recharge by percolation.

COOPERATION.--Record of contents furnished by Santa Clara Valley Water District.

EXTREMES (AT 0800) FOR PERIOD OF RECORD.--Maximum contents observed, 4,100 acre-ft (5.06 hm^3) Dec. 26, 1955, elevation, 538.61 ft (164.168 m); maximum elevation, 539.70 ft (164.501 m) Mar. 16, 1967; no contents at times in most years.

EXTREMES (AT 0800) FOR CURRENT YEAR.--Maximum contents observed, 926 acre-ft (1.14 hm^3) Oct. 1, elevation, 495.12 ft (150.913 m); no contents July 22 to Sept. 30.

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY STORAGE ABOVE SPILLWAY CREST), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Contents
Sept. 30, 1975.....	926
Oct. 31.....	802
Nov. 30.....	632
Dec. 31.....	509
Jan. 31, 1976.....	372
Feb. 29.....	366
Mar. 31.....	441
Apr. 30.....	435
May 31.....	355
June 30.....	139
July 31.....	0
Aug. 31.....	0
Sept. 30.....	0

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

RESERVOIRS IN GUADALUPE RIVER BASIN, CA

11166670 ALMADEN RESERVOIR.--Lat 37°09'54", long 121°49'39", in San Vicente Grant, Santa Clara County, at center of dam on Alamitos Creek, 0.7 mi (1.1 km) southwest of New Almaden, and 7 mi (11 km) south of Edenvale. DRAINAGE AREA, 11.9 mi^2 (30.8 km^2). PERIOD OF RECORD, January 1936 to current year. Monthly contents prior to October 1959, published in WSP 1735. GAGE, nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Santa Clara Valley Water District).

Reservoir is formed by earthfill dam completed in 1936. Capacity, 1,780 acre-ft (2.19 hm^3) between elevations 533.1 ft (162.49 m), invert of outlet tunnel and 606.9 ft (184.98 m), crest of spillway. Water released down Alamitos Creek for ground-water recharge by percolation and minor irrigation. Up to 100 ft^3/s (2.83 m^3/s) diverted to Calero Reservoir at times. Record of contents furnished by Santa Clara Valley Water District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 2,150 acre-ft (2.65 hm^3) Jan. 31, 1963, elevation, 610.24 ft (186.001 m) from floodmarks; no contents at times in each year except 1942-43, 1962-63, 1966, 1968-70, 1973-75.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 625 acre-ft (771,000 m^3) Oct. 1, elevation, 580.45 ft (176.921 m); no contents July 10 to Sept. 30.

11166740 CALERO RESERVOIR.--Lat 37°11'00", long 121°47'28", in San Vicente Grant, Santa Clara County, at center of dam on Arroyo Calero, 1.7 mi (2.7 km) northeast of New Almaden, and 6 mi (10 km) southeast of Edenvale. DRAINAGE AREA, 6.96 mi^2 (18.03 km^2). PERIOD OF RECORD, January 1936 to current year. Monthly contents prior to October 1959, published in WSP 1735. GAGE, nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Santa Clara Valley Water District).

Reservoir is formed by earthfill dam completed to crest elevation 482.55 ft (147.081 m) in 1936 and raised to 483.5 ft (147.37 m) in 1962. Capacity, 10,160 acre-ft (12.5 hm^3) between elevations 393.7 ft (120.00 m), center of outlet tunnel and 483.5 ft (147.37 m), crest of spillway. Water released down Arroyo Calero for ground-water recharge by percolation and minor irrigation. Up to 100 ft^3/s (2.83 m^3/s) diverted from Almaden Reservoir to Calero Reservoir at times. Record of contents furnished by Santa Clara Valley Water District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 10,520 acre-ft (13.0 hm^3) Apr. 7, 1967, elevation, 485.21 ft (147.892 m); no contents at times in each year except 1942-45, 1963-76.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 6,780 acre-ft (8.36 hm^3) Oct. 1, elevation, 472.50 ft (144.018 m); minimum observed, 2,580 acre-ft (3.18 hm^3) Sept. 25-30, elevation, 451.15 ft (137.511 m).

11167370 GUADALUPE RESERVOIR.--Lat 37°11'57", long 121°52'42", in Los Capitancillos Grant, Santa Clara County, at center of dam on Guadalupe Creek, 3.6 mi (5.8 km) northwest of New Almaden, and 5.0 mi (8.0 km) southeast of Los Gatos. DRAINAGE AREA, 5.97 mi^2 (15.5 km^2). PERIOD OF RECORD, January 1936 to current year. Monthly contents prior to October 1959, published in WSP 1735. GAGE, nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Santa Clara Valley Water District).

Reservoir is formed by earthfill dam completed in 1936. Capacity, 3,740 acre-ft (4.61 hm^3) between elevations 506.8 ft (154.47 m), invert of outlet tunnel and 617.3 ft (188.15 m), crest of spillway. Water released down Guadalupe Creek for irrigation and ground-water recharge by percolation. Record of contents furnished by Santa Clara Valley Water District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 3,750 acre-ft (4.62 hm^3) Apr. 4, 1974, elevation, 617.38 ft (188.177 m); maximum elevation, 619.26 ft (188.750 m) Feb. 1, 1963, from floodmarks; no contents at times in each year except 1941-43, 1962-63, 1966-67, 1974-76.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 417 acre-ft (514,000 m^3) Oct. 1, elevation, 549.44 ft (167.469 m); minimum observed, 93 acre-ft (115,000 m^3) Sept. 30, elevation, 529.70 ft (161.453 m).

11167950 LAKE ELSMAN.--Lat 37°07'51", long 121°55'47", in SE¼ sec.23, T.9 S., R.1 W., Santa Clara County, at center of Austrian Dam on Los Gatos Creek, and 7.3 mi (11.7 km) southeast of Los Gatos. DRAINAGE AREA, 9.79 mi^2 (25.4 km^2). PERIOD OF RECORD, February 1951 to current year. Monthly contents prior to October 1959, published in WSP 1735. GAGE, nonrecording gage read once daily. Datum of gage is at mean sea level (levels by San Jose Water Works).

Reservoir is formed by earthfill dam completed in 1951; topped by a 2-foot (0.6-m) inflatable surcharge dam since 1956. Usable capacity, 6,280 acre-ft (7.74 hm^3) between elevations 944 ft (287.7 m), elevation of outlet gates and 1,112 ft (338.9 m), top of 2-foot (0.6-m) inflatable surcharge dam. Dead storage, 60 acre-ft (74,000 m^3). Water released down Los Gatos Creek for domestic and industrial use. Record of contents furnished by San Jose Water Works.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 6,640 acre-ft (8.19 hm^3) Jan. 31, 1963, elevation, 1,115.1 ft (339.88 m); no contents Nov. 30, 1968, Nov. 5, 1969, Oct. 31, 1972, Nov. 30, 1974.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 1,430 acre-ft (1.76 hm^3) Oct. 1, elevation, 1,044.0 ft (318.21 m); minimum observed, 68 acre-ft (83,800 m^3) Jan. 4, elevation, 993.4 ft (302.79 m).

11167980 LEXINGTON RESERVOIR.--Lat 37°12'06", long 121°59'17", in SE¼ sec.29, T.8 S., R.1 W., Santa Clara County, at center of dam on Los Gatos Creek, and 1.7 mi (2.7 km) south of Los Gatos. DRAINAGE AREA, 37.0 mi^2 (95.8 km^2). PERIOD OF RECORD, December 1952 to current year. Monthly contents prior to October 1959, published in WSP 1735. GAGE, nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Santa Clara Valley Water District).

Reservoir is formed by earthfill dam completed in 1952. Capacity, 20,210 acre-ft (24.9 hm^3) between elevations 519 ft (158.2 m), invert at outlet tunnel and 649.9 ft (198.09 m), crest of spillway. Dead storage, 31 acre-ft (38,200 m^3). Water released down Los Gatos Creek for irrigation and ground-water recharge by percolation. Record of contents furnished by Santa Clara Valley Water District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 23,190 acre-ft (28.6 hm^3) Mar. 16, 1967, elevation, 654.00 ft (199.339 m); no contents at times in each year except 1963, 1966-74, 1976.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 1,640 acre-ft (2.02 hm^3) May 1, elevation, 563.58 ft (171.779 m); no contents Oct. 1-17.

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY STORAGE ABOVE SPILLWAY CREST), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Almaden Reservoir a	Calero Reservoir a	Guadalupe Reservoir a	Lake Elsman b	Lexington Reservoir a
Sept. 30, 1975.....	625	6780	417	1430	0
Oct. 31.....	591	6580	96	313	730
Nov. 30.....	180	5930	96	261	904
Dec. 31.....	168	5300	96	95	1030
Jan. 31, 1976.....	149	4450	115	95	1130
Feb. 29.....	135	4310	151	132	1290
Mar. 31.....	191	4240	200	292	1510
Apr. 30.....	221	4060	233	417	1640
May 31.....	128	3770	96	525	1360
June 30.....	48	3420	96	445	1010
July 31.....	0	3020	96	430	707
Aug. 31.....	0	2780	96	457	541
Sept. 30.....	0	2580	93	485	452

a Contents at 0800 on first day of following month.
b Contents at 0800 on last day of month.

11169000 GUADALUPE RIVER AT SAN JOSE, CA

LOCATION.--Lat 37°20'04", long 121°53'54", Santa Clara County, on right bank at San Jose, 100 ft (30 km) downstream from Los Gatos Creek.

DRAINAGE AREA.--144 mi^2 (373 km^2).

PERIOD OF RECORD.--October 1929 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to 1945, published as Guadalupe Creek at San Jose.

REVISED RECORDS.--WSP 1315-B: 1943(M), 1945(M), 1949(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 72.00 ft (21.946 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records fair. Flow regulated by Lexington Reservoir 12 mi (19 km) upstream and Calero, Almaden, Guadalupe Reservoirs, and Lake Elsman given elsewhere in this report, with water released during summer for percolation in spreading basins on tributaries. During current year, 2,830 acre-ft (3.49 hm^3) was diverted by San Jose Water Works for urban use and 2,330 acre-ft (2.87 hm^3) was diverted by Santa Clara Valley Water District into Alamitos percolation ponds from Coyote Creek basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,150 ft^3/s (259 m^3/s) Apr. 2, 1958, gage height, 16.55 ft (5.044 m); no flow many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 884 ft^3/s (25.0 m^3/s) Mar. 2, gage height, 3.64 ft (1.109 m); minimum daily, 0.07 ft^3/s (0.002 m^3/s) Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	6.4	2.5	2.0	3.4	17	6.8	6.0	.49	.43	.80	.23
2	7.2	5.8	2.3	2.7	2.6	262	7.4	5.3	.66	.44	.76	.18
3	5.7	5.8	2.0	4.7	2.7	48	14	2.7	.47	.25	.79	.16
4	5.7	4.7	1.7	7.0	5.1	22	17	2.7	.39	.29	.79	.23
5	4.6	1.7	1.5	8.9	63	5.1	7.4	2.0	.34	.33	.79	.10
6	3.7	.59	1.7	8.5	13	2.9	6.8	1.2	.17	.22	.77	.14
7	2.7	.50	2.0	6.6	9.9	2.7	9.1	.79	.18	.26	.46	.20
8	5.5	.42	1.9	6.2	61	2.4	31	.68	.23	.42	.20	.30
9	9.3	.50	3.3	47	15	2.3	11	1.4	.34	.42	.25	.30
10	29	.68	.79	9.6	8.1	1.9	23	1.2	4.0	.26	.34	.25
11	17	2.7	.79	6.0	7.6	1.8	17	1.5	1.9	.34	.34	.25
12	7.6	5.1	6.6	6.2	7.4	1.2	14	1.2	.69	.50	.41	.38
13	3.3	3.0	3.7	6.4	12	1.6	13	1.6	.56	.50	.38	.38
14	8.7	2.5	3.2	6.4	15	2.0	13	1.7	1.3	.34	.41	.17
15	4.9	6.8	3.9	6.6	11	1.7	13	1.3	1.2	.59	2.0	.14
16	2.2	6.8	4.2	6.4	11	1.7	10	2.0	.53	.42	.84	.31
17	.90	2.8	4.7	4.7	13	1.4	11	2.0	.54	.26	1.6	.22
18	.90	1.5	5.3	3.9	11	2.2	12	1.0	.58	.34	6.4	.14
19	.68	1.2	5.7	3.2	20	1.2	11	.84	.33	.50	40	.07
20	1.4	7.0	5.8	3.0	13	1.5	10	.87	.19	.68	3.9	.20
21	1.2	7.0	7.2	2.8	11	1.7	5.5	1.0	.32	.71	1.6	.68
22	1.0	7.2	10	2.8	11	1.7	2.7	1.0	.35	.69	.52	.62
23	.90	6.8	3.0	3.2	11	1.4	2.5	.80	.45	.85	1.1	1.0
24	.79	4.9	1.9	4.9	9.6	1.4	4.4	1.2	.38	.66	.94	1.3
25	.90	2.3	1.9	9.3	6.3	.79	4.2	.86	.46	.70	.31	1.6
26	8.7	1.5	1.7	10	5.4	1.2	5.3	.89	.47	.76	.21	1.9
27	6.4	1.7	1.4	11	4.6	4.4	5.8	.60	.39	.65	.22	2.5
28	2.8	.68	1.5	9.8	4.8	6.4	6.6	.51	.42	1.0	.14	28
29	2.8	.90	1.5	10	75	7.2	6.8	.47	.72	.90	.10	46
30	56	.59	7.0	11	---	7.2	6.8	.42	.83	.82	.16	69
31	8.7	---	3.3	6.6	---	7.0	---	.29	---	.79	.22	---
TOTAL	218.37	100.06	103.98	237.4	443.5	422.99	308.1	46.02	19.88	16.32	67.75	156.95
MEAN	7.04	3.34	3.35	7.66	15.3	13.6	10.3	1.48	.66	.53	2.19	5.23
MAX	56	7.2	10	47	75	262	31	6.0	4.0	1.0	40	69
MIN	.68	.42	.79	2.0	2.6	.79	2.5	.29	.17	.22	.10	.07
AC-FT	433	198	206	471	880	839	611	91	39	32	134	311

CAL YR 1975 TOTAL 9086.71 MEAN 24.9 MAX 1020 MIN .42 AC-FT 18020
WTR YR 1976 TOTAL 2141.32 MEAN 5.85 MAX 262 MIN .07 AC-FT 4250

11169500 SARATOGA CREEK AT SARATOGA, CA

LOCATION.--Lat 37°15'16", long 122°02'18", in Quito Grant, Santa Clara County, on right bank on upstream side of private road bridge, 0.5 mi (0.8 km) southwest of Saratoga, and 0.7 mi (1.1 km) downstream from diversion dam.

DRAINAGE AREA.--9.22 mi^2 (23.88 km^2).

PERIOD OF RECORD.--October 1933 to current year. Prior to October 1951, published as Campbell Creek at Saratoga.

REVISED RECORDS.--WSP 1445: 1940, 1952(M). WSP 1929: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 500 ft (152 m), from topographic map. Prior to Dec. 6, 1968, at site 40 ft (12 m) downstream at different datum.

REMARKS.--Records good. Water is diverted for municipal use by San Jose Water Works at diversion dam above station.

AVERAGE DISCHARGE (adjusted for diversion).--43 years, 9.90 ft^3/s (0.280 m^3/s), 7,170 acre-ft/yr (8.84 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,730 ft^3/s (77.3 m^3/s) Dec. 22, 1955, gage height, 6.40 ft (1.951 m) site and datum then in use, from rating curve extended above 510 ft^3/s (14.4 m^3/s) on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25 ft^3/s (0.71 m^3/s) Feb. 29, gage height, 3.00 ft (0.914 m), no peak above base of 110 ft^3/s (3.1 m^3/s); minimum daily, 0.05 ft^3/s (0.001 m^3/s) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.23	1.9	.41	.36	.28	2.6	.24	.22	.27	.15	.08	.10
2	.20	1.6	.44	.37	.28	7.5	.24	.23	.26	.15	.08	.09
3	.21	1.5	.44	.37	.28	4.4	.25	.20	.24	.15	.10	.09
4	.35	1.4	.53	.37	.26	2.3	.28	.19	.23	.15	.12	.11
5	.55	1.4	.43	.37	.34	1.1	.22	.20	.23	.15	.10	.10
6	.53	1.5	.48	.37	.20	.33	.26	.20	.24	.14	.08	.11
7	.46	5.8	.41	.30	.31	.25	1.7	.19	.27	.13	.10	.10
8	.21	5.8	.38	.32	.80	.24	4.3	.16	.27	.15	.09	.07
9	2.5	3.0	.42	.41	.86	.21	1.3	.15	.31	.14	.08	.05
10	6.3	4.9	.37	.23	.28	.22	1.4	.17	.38	.14	.07	.06
11	2.4	3.8	.34	.28	.25	.18	1.1	.18	.34	.13	.07	.09
12	1.7	3.5	.49	.28	.25	.21	.51	.15	.34	.13	.08	.11
13	.91	3.3	.38	.28	.31	.24	.21	.14	.33	.12	.08	.11
14	.32	3.2	.44	.28	.28	.22	.17	.17	.49	.11	.08	.11
15	.23	2.8	.51	.29	.31	.22	.34	.12	.22	.11	.21	.10
16	.58	1.7	.49	.28	.34	.25	.23	.12	.19	.12	.15	.11
17	.22	1.8	.46	.29	.31	.25	.22	.12	.18	.13	.12	.12
18	.24	2.8	.35	.31	.27	.35	.25	.11	.18	.13	.21	.13
19	.21	7.3	.41	.31	1.4	.42	.25	.13	.18	.14	.40	.14
20	.51	6.3	.41	.31	.97	.29	.23	.13	.22	.12	.24	.15
21	.81	1.3	.43	.27	.33	.29	.30	.08	.22	.12	.19	.14
22	.83	1.0	.86	.28	.41	.24	.22	.17	.20	.12	.18	.12
23	.84	1.4	.28	.30	.31	.23	.28	.28	.19	.11	.18	.11
24	.86	.83	.19	.31	.35	.23	.23	.29	.16	.10	.19	.11
25	.83	.26	.22	.31	.34	.22	.29	.25	.13	.10	.16	.13
26	1.7	.33	.25	.28	.36	.25	.33	.23	.13	.10	.15	.15
27	1.4	.42	.26	.25	.40	.23	.32	.20	.13	.08	.14	.15
28	1.2	.35	.28	.28	.38	.22	.30	.23	.11	.06	.12	.29
29	1.1	.33	.27	.28	6.5	.25	.41	.28	.11	.07	.11	.32
30	5.0	.39	.31	.28	---	.23	.32	.28	.14	.08	.11	.39
31	2.5	---	.29	.28	---	.21	---	.28	---	.09	.10	---
TOTAL	35.93	71.91	12.23	9.50	17.96	24.38	16.70	5.85	6.89	3.72	4.17	3.96
MEAN	1.16	2.40	.39	.31	.62	.79	.56	.19	.23	.12	.13	.13
MAX	6.3	7.3	.86	.41	6.5	7.5	4.3	.29	.49	.15	.40	.39
MIN	.20	.26	.19	.23	.20	.18	.17	.08	.11	.06	.07	.05
AC-FT	71	143	24	19	36	48	33	12	14	7.4	8.3	7.9
(†)	26	22	79	71	57	79	64	28	0	0	0	0

CAL YR 1975 TOTAL 3117.00 MEAN 8.54 MAX 196 MIN .11 AC-FT 6180 † 2020
WTR YR 1976 TOTAL 213.20 MEAN .58 MAX 7.5 MIN .05 AC-FT 423 † 426

† Diversion, in acre-feet, furnished by San Jose Water Works.

11169580 CALABAZAS CREEK TRIBUTARY AT MT. EDEN ROAD, NEAR SARATOGA, CA

LOCATION.--Lat 37°16'09", long 122°03'36", in NE¼NE¼ sec.3, T.8 S., R.2 W., Santa Clara County, on right bank at upstream side of culvert on Mt. Eden Road, 750 ft (229 m) upstream from mouth, and 1.8 mi (2.9 km) northwest of Saratoga Post Office.

DRAINAGE AREA.--0.37 mi^2 (0.96 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to current year.

REVISED RECORDS.--WDR CA-75-2: 1973(P), 1974(M).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 600 ft (183 m), from topographic map. Recording rain gage at Garrod Ranch 0.5 mi (0.8 km) north of gage. Altitude of gage is 950 ft (290 m), from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 107 ft^3/s (3.03 m^3/s) Feb. 1, 1975, gage height, 4.78 ft (1.457 m); no flow many days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4.7 ft^3/s (0.13 m^3/s) Mar. 2, gage height, 2.64 ft (0.805 m), no peak above base of 20 ft^3/s (0.6 m^3/s); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	.04	.01	.01				
2					0	.34	.01	.01				
3					0	.07	.01	.01				
4					.01	.04	.01	0				
5					.01	.03	0	0				
6					.01	.02	0	0				
7					.01	.01	.01	0				
8					.01	.01	.02	0				
9					.01	.01	.01	0				
10					.01	.01	.01	0				
11					0	.01	.01	0				
12					0	.01	.01	0				
13					0	.01	.01	0				
14					0	.01	.01	0				
15					0	.01	.01	0				
16					0	.01	.01	0				
17					0	.01	.01	0				
18					.01	.01	.01	0				
19					.01	.01	.01	0				
20					.01	.01	.01	0				
21					.01	.01	.01	0				
22					.01	.01	.01	0				
23					.01	.01	.01	0				
24					.01	.01	.01	0				
25					.01	.01	.01	0				
26					.01	.01	.01	0				
27					.01	.01	.01	0				
28					.01	.01	.01	0				
29					.04	.01	.01	0				
30					---	.01	.01	0				
31		---			---	.01	---	0	---			---
TOTAL	0	0	0	0	.22	.79	.29	.03	0	0	0	0
MEAN	0	0	0	0	.008	.026	.010	.001	0	0	0	0
MAX	0	0	0	0	.04	.34	.02	.01	0	0	0	0
MIN	0	0	0	0	0	.01	0	0	0	0	0	0
AC-FT	0	0	0	0	.4	1.6	.6	.06	0	0	0	0
(†)	2.60	.37	.18	.22	2.25	1.56	1.34	0	.20	0	.80	.77

CAL YR 1975 TOTAL 121.68 MEAN .33 MAX 27 MIN 0 AC-FT 241
WTR YR 1976 TOTAL 1.33 MEAN .004 MAX .34 MIN 0 AC-FT 2

† Precipitation, in inches, at Garrod Ranch gage.

11169580 CALABAZAS CREEK TRIBUTARY AT MT. EDEN ROAD, NEAR SARATOGA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972 to current year.
CHEMICAL ANALYSES: Water years 1972 to current year.
WATER TEMPERATURES: Water years 1973 to current year.
SEDIMENT RECORDS: Water years 1973 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1972 to current year.
SEDIMENT RECORDS: October 1972 to current year.

REMARKS.--Sediment table omitted for periods of no flow Oct. 1 to Dec. 31, and July 1 to Sept. 30.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,320 mg/L Feb. 1, 1975; minimum daily mean, no flow for many days each year.
SEDIMENT DISCHARGE: Maximum daily, 400 tons (363 tonnes) Feb. 1, 1975; minimum daily, 0 tons (0 tonnes) on many days each year.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 446 mg/L Mar. 2; minimum daily mean, no flow for many days.
SEDIMENT DISCHARGE: Maximum daily, 0.86 ton (0.78 tonne) Mar. 2; minimum daily, 0 tons (0 tonnes) on many days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	PCB IN BOTTOM MATERIAL (UG/KG)	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)
JUN 08...	1030	.00	1	<10	100	<10	.1	0	.0	11

DATE	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)
JUN 08...	1.8	1.8	3.0	.0	.5	.0	.0	.0	.0	.0

DATE	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)
JUN 08...	.0	.0	.0	.0	0	.0	0	0	0

11169580 CALABAZAS CREEK TRIBUTARY AT MT. EDEN ROAD, NEAR SARATOGA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					---	10.5	10.0	16.0				
2					---	5.5	6.0	14.0				
3					---	10.0	10.0	14.5				
4					9.0	6.0	10.0	---				
5					---	---	---	---				
6					---	---	---	---				
7					---	10.0	10.5	---				
8					---	10.5	10.5	---				
9					---	10.5	10.5	---				
10					10.5	10.5	10.5	---				
11					---	10.5	10.5	---				
12					---	10.5	10.5	---				
13					---	10.5	---	---				
14					---	10.5	---	---				
15					---	10.5	---	---				
16					---	15.0	14.0	---				
17					---	10.5	---	---				
18					10.5	10.5	16.5	---				
19					10.5	10.0	16.0	---				
20					10.5	10.5	15.0	---				
21					10.0	10.5	13.0	---				
22					10.0	10.5	16.5	---				
23					10.5	10.5	14.0	---				
24					10.0	10.0	12.0	---				
25					10.5	6.0	15.0	---				
26					10.5	10.5	13.0	---				
27					10.5	10.5	14.5	---				
28					10.0	10.0	14.0	---				
29					10.5	10.5	12.0	---				
30					---	11.0	15.0	---				
31					---	10.0	---	---				
MONTH					---	10.0	12.5	---				

TOTAL-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	0	0	0	0	0	0	.04	25	0
2	0	0	0	0	0	0	.34	446	.86
3	0	0	0	0	0	0	.07	171	.04
4	0	0	0	.01	70	0	.04	106	.01
5	0	0	0	.01	50	0	.03	143	.01
6	0	0	0	.01	50	0	.02	103	.01
7	0	0	0	.01	50	0	.01	80	0
8	0	0	0	.01	70	0	.01	56	0
9	0	0	0	.01	60	0	.01	80	0
10	0	0	0	.01	50	0	.01	80	0
11	0	0	0	0	0	0	.01	65	0
12	0	0	0	0	0	0	.01	51	0
13	0	0	0	0	0	0	.01	30	0
14	0	0	0	0	0	0	.01	46	0
15	0	0	0	0	0	0	.01	39	0
16	0	0	0	0	0	0	.01	38	0
17	0	0	0	0	0	0	.01	30	0
18	0	0	0	.01	38	0	.01	29	0
19	0	0	0	.01	130	0	.01	25	0
20	0	0	0	.01	88	0	.01	35	0
21	0	0	0	.01	70	0	.01	30	0
22	0	0	0	.01	50	0	.01	33	0
23	0	0	0	.01	61	0	.01	22	0
24	0	0	0	.01	50	0	.01	9	0
25	0	0	0	.01	46	0	.01	6	0
26	0	0	0	.01	26	0	.01	20	0
27	0	0	0	.01	31	0	.01	14	0
28	0	0	0	.01	50	0	.01	35	0
29	0	0	0	.04	59	.01	.01	32	0
30	0	0	0	---	---	---	.01	47	0
31	0	0	0	---	---	---	.01	60	0
MONTH	0	---	0	.22	---	.01	.79	---	.93

11169580 CALABAZAS CREEK TRIBUTARY AT MT. EDEN ROAD, NEAR SARATOGA, CA--Continued

TOTAL-SEDIMENT DISCHARGE (TONS/DAYS), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	.01	36	0	.01	11	0	0	0	0
2	.01	46	0	.01	28	0	0	0	0
3	.01	55	0	.01	30	0	0	0	0
4	.01	36	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
7	.01	34	0	0	0	0	0	0	0
8	.02	57	0	0	0	0	0	0	0
9	.01	31	0	0	0	0	0	0	0
10	.01	36	0	0	0	0	0	0	0
11	.01	28	0	0	0	0	0	0	0
12	.01	44	0	0	0	0	0	0	0
13	.01	40	0	0	0	0	0	0	0
14	.01	36	0	0	0	0	0	0	0
15	.01	33	0	0	0	0	0	0	0
16	.01	30	0	0	0	0	0	0	0
17	.01	50	0	0	0	0	0	0	0
18	.01	54	0	0	0	0	0	0	0
19	.01	44	0	0	0	0	0	0	0
20	.01	40	0	0	0	0	0	0	0
21	.01	36	0	0	0	0	0	0	0
22	.01	62	0	0	0	0	0	0	0
23	.01	71	0	0	0	0	0	0	0
24	.01	74	0	0	0	0	0	0	0
25	.01	38	0	0	0	0	0	0	0
26	.01	48	0	0	0	0	0	0	0
27	.01	30	0	0	0	0	0	0	0
28	.01	47	0	0	0	0	0	0	0
29	.01	52	0	0	0	0	0	0	0
30	.01	24	0	0	0	0	0	0	0
31	---	---	---	0	0	0	---	---	---
MONTH	.29	---	0	.03	---	0	0	---	0
YEAR	1.33		.94						

PARTICLE-SIZE DISTRIBUTION OF TOTAL SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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
FEB							
23...	1640	10.5	.01	61	.00	--	--
29...	1505	12.0	.24	156	.10	--	--
MAR							
02...	1130	7.0	.51	565	.78	79	92
02...	1745	5.5	.29	307	.24	85	96

DATE	TOTAL SED. FALL DIAM. % FINER THAN .008 MM	TOTAL SED. FALL DIAM. % FINER THAN .016 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
FEB						
23...	--	--	98	98	98	100
29...	--	--	91	94	96	100
MAR						
02...	97	100	--	--	--	--
02...	99	100	--	--	--	--

11169600 PROSPECT CREEK AT SARATOGA GOLF COURSE, NEAR SARATOGA, CA

LOCATION.--Lat 37°17'09", long 122°03'14", in NE¼NW¼ sec.35, T.7 S., R.2 W., Santa Clara County, on left bank 60 ft (18 m) upstream from culvert at Saratoga Golf Course, 0.2 mi (0.3 km) downstream from small right-bank tributary, and 2.2 mi (3.5 km) northwest of Saratoga Post Office.

DRAINAGE AREA.--0.27 mi^2 (0.70 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 600 ft (183 m), from topographic map.

REMARKS.--No flow since May 16, 1975. No regulation or diversion above station. Discharge for calendar year 1975 as follows: Total, 47.81 ft^3/s (1.35 m^3/s); mean, 0.13 ft^3/s (0.004 m^3/s); maximum, 6.7 ft^3/s (0.19 m^3/s); minimum daily, zero ft^3/s (zero m^3/s); total, 95 acre-ft (117,000 m^3).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 52 ft^3/s (1.47 m^3/s) Feb. 1, 1975, gage height, 4.93 ft (1.503 m); no flow most of each year.

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972 to current year.
CHEMICAL ANALYSES: Water years 1972, 1974 to current year.
WATER TEMPERATURES: Water years 1973 to current year.
SEDIMENT RECORDS: Water years 1973 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1972 to current year.
SEDIMENT RECORDS: October 1972 to current year.

REMARKS.--Sediment table omitted for period of no flow Oct. 1 to Sept. 30.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 6,040 mg/L Jan. 16, 1973; minimum daily mean, no flow for many days each year.
SEDIMENT DISCHARGE: Maximum daily, 319 tons (289 tonnes) Jan. 16, 1973; minimum daily, 0 tons (0 tonnes) on many days each year.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: No flow during year.
SEDIMENT DISCHARGE: No flow during year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	PCB IN BOTTOM MATERIAL (UG/KG)	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)
JUN 08...	0930	.00	3	<10	150	<10	.1	0	.0	2

DATE	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)
JUN 08...	.0	.4	1.6	.0	.0	.0	.0	.0	.0	.0

DATE	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)
JUN 08...	.0	.0	.0	.0	0	.0	0	0	0

11169616 CALABAZAS CREEK AT RAINBOW DRIVE, NEAR CUPERTINO, CA

LOCATION.--Lat 37°18'03", long 122°01'32", Santa Clara County, on right bank 100 ft (30 m) upstream from Rainbow Drive, and 1.6 mi (2.6 km) south of Cupertino.

DRAINAGE AREA.--3.98 mi^2 (10.31 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1973 to current year. October 1966 to September 1973 in files of Santa Clara Valley Water District.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 265 ft (81 m), from topographic map.

REMARKS.--Records good. No diversion above station. During current year, 1,460 acre-ft (1.80 hm^3) imported from South Bay Aqueduct for percolation.

COOPERATION.--Four discharge measurements were furnished by Santa Clara Valley Water District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 650 ft^3/s (18.4 m^3/s) Feb. 1, 1975, gage height, 6.00 ft (1.829 m); no flow many days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 34 ft^3/s (0.96 m^3/s) Oct. 11, gage height, 1.32 ft (0.402 m), no peak above base of 100 ft^3/s (2.8 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	0	1.6	1.8	1.0	.01	1.0	2.4	1.5	0	1.6	.78
2	1.6	0	1.6	1.7	1.0	4.4	1.0	2.4	1.5	.13	1.6	.81
3	1.6	0	1.6	1.6	1.0	.44	1.0	2.4	1.5	2.0	.77	.82
4	1.6	0	1.6	1.6	1.0	.72	.99	2.4	1.6	2.2	1.5	.87
5	1.5	0	1.6	1.6	1.6	1.9	.99	2.4	1.5	2.2	4.3	.89
6	1.5	0	1.6	1.6	.86	1.8	.98	2.4	1.5	2.2	4.3	.86
7	1.5	0	1.6	1.6	1.0	1.8	1.3	2.4	1.5	2.2	1.6	.56
8	1.5	0	1.6	1.7	1.2	1.7	1.4	2.4	1.6	2.2	1.8	.21
9	3.2	0	1.6	1.1	0	1.6	.95	2.3	1.5	2.2	8.1	.14
10	2.0	0	1.6	.47	.79	1.6	1.1	2.0	1.6	2.2	5.4	.15
11	2.7	0	1.6	1.6	2.2	1.7	.94	2.0	1.5	2.2	.78	.17
12	1.6	0	1.7	1.6	2.3	1.7	.90	2.0	1.6	2.2	1.5	.16
13	1.6	.21	1.6	1.6	2.3	1.6	.85	2.0	1.5	2.2	1.6	.08
14	1.6	1.6	1.6	1.5	2.2	1.5	.88	2.0	1.4	2.2	1.5	.08
15	1.6	1.5	1.6	1.5	2.2	1.4	.82	1.9	.84	2.2	1.5	.06
16	1.6	1.6	1.6	1.5	2.1	1.4	.83	1.9	0	2.2	1.3	.05
17	1.5	1.6	1.6	1.5	2.0	1.3	.78	1.9	0	2.0	1.3	.06
18	1.5	1.6	1.6	1.5	2.1	1.3	.74	2.0	0	2.0	1.6	.05
19	1.4	1.6	1.6	1.5	2.2	1.3	.51	2.0	0	2.0	1.6	.06
20	1.5	1.6	1.8	1.5	2.0	1.4	0	1.8	0	2.0	1.1	.05
21	1.4	1.6	2.0	1.5	2.0	1.2	.96	1.8	0	2.0	1.0	.03
22	1.4	1.6	2.0	1.4	2.0	1.2	2.7	1.8	0	1.8	1.0	.03
23	1.3	1.6	2.0	1.5	2.0	1.1	2.6	1.8	0	1.8	.97	.04
24	1.4	1.6	2.0	1.4	2.0	1.1	2.5	1.7	0	1.8	.97	.03
25	1.5	1.5	2.0	1.4	2.0	1.1	2.7	1.8	0	1.8	.90	.04
26	1.7	1.6	2.0	1.4	2.0	1.1	2.6	1.7	0	1.8	.88	.09
27	.99	1.6	2.0	1.4	2.0	1.0	2.6	1.7	0	1.6	.89	.04
28	0	1.6	2.0	1.3	1.9	1.1	2.6	1.7	0	1.6	.99	.25
29	0	1.6	1.9	1.2	3.2	1.0	2.5	1.8	0	1.6	.88	.28
30	.06	1.6	1.8	1.1	---	1.0	2.5	1.6	0	1.6	.82	.52
31	0	---	1.8	1.1	---	1.0	---	1.6	---	1.6	.77	---
TOTAL	43.95	27.21	53.8	44.77	50.15	42.47	42.22	62.0	22.14	57.73	54.82	8.26
MEAN	1.42	.91	1.74	1.44	1.73	1.37	1.41	2.00	.74	1.86	1.77	.28
MAX	3.2	1.6	2.0	1.8	3.2	4.4	2.7	2.4	1.6	2.2	8.1	.89
MIN	0	0	1.6	.47	0	.01	0	1.6	0	0	.77	.03
AC-FT	87	54	107	89	99	84	84	123	44	115	109	16

CAL YR 1975 TOTAL 1031.48 MEAN 2.83 MAX 107 MIN 0 AC-FT 2050
WTR YR 1976 TOTAL 509.52 MEAN 1.39 MAX 8.1 MIN 0 AC-FT 1010

11169616 CALABAZAS CREEK AT RAINBOW DRIVE, NEAR CUPERTINO, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to current year.
CHEMICAL ANALYSES: Water years 1974 to current year.
WATER TEMPERATURES: Water years 1974 to current year.
SEDIMENT RECORDS: Water years 1974 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1973 to current year.
SEDIMENT RECORDS: October 1973 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 7,020 mg/L Feb. 1, 1975; minimum daily mean, no flow for many days each year.
SEDIMENT DISCHARGE: Maximum daily, 4,130 tons (3,750 tonnes) Feb. 1, 1975; minimum daily, 0 tons (0 tonnes) on many days each year.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 251 mg/L Mar. 2; minimum daily mean, no flow for many days.
SEDIMENT DISCHARGE: Maximum daily, 5.5 tons (5.0 tonnes) Mar. 2; minimum daily, 0 tons (0 tonnes) on many days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	PCB IN BOTTOM MATERIAL (UG/KG)	ALDRIN IN BOTTOM MATERIAL (UG/KG)
JUN 08...	1130	1.6	17.5	5	<10	120	<10	.1	0	.0

DATE	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)
JUN 08...	4	.4	.4	.8	.0	.0	.0	.0	.0	.0

DATE	LINDANE IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)
JUN 08...	.0	.0	.0	.0	.0	0	.0	0	0	0

11169616 CALABAZAS CREEK AT RAINBOW DRIVE, NEAR CUPERTINO, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	18.0	---	---	---	---
2	---	---	---	---	---	8.5	19.0	---	21.0	---	26.0	27.0
3	---	---	---	---	12.5	---	---	---	17.0	25.0	---	---
4	17.0	---	11.0	5.0	---	---	---	17.0	---	---	---	---
5	---	---	---	9.0	---	---	---	20.0	22.0	---	---	---
6	---	---	---	---	---	15.0	---	---	---	25.5	---	---
7	16.0	---	---	---	11.5	---	---	---	---	---	---	22.0
8	---	---	---	---	10.0	---	12.0	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	24.5	22.0	---
10	---	---	10.5	---	---	---	---	21.0	---	---	---	---
11	---	---	---	---	---	---	---	---	16.0	---	---	---
12	15.0	---	---	---	13.0	---	15.0	---	---	---	---	---
13	---	---	10.0	---	---	---	---	---	---	26.0	---	22.0
14	---	---	---	10.0	12.0	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	23.0	---	---	---
16	---	12.5	---	---	---	18.0	13.0	---	---	24.0	21.0	---
17	---	---	---	12.0	---	---	---	22.5	---	---	---	---
18	14.5	---	---	---	---	---	---	---	---	---	---	---
19	---	11.0	---	---	12.0	---	21.0	---	---	24.0	19.5	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	18.0	---	9.5	11.5	14.0	---	---	22.5	---	---	---	---
22	---	12.5	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	16.0	---	---	---	---	---	---
24	---	---	11.0	12.0	---	---	---	21.0	---	---	---	---
25	---	12.5	---	---	14.0	---	19.0	---	---	---	---	---
26	15.0	14.0	---	---	---	---	---	---	---	---	---	---
27	---	12.0	---	---	---	---	19.0	---	---	---	---	---
28	---	---	---	---	13.0	---	---	18.0	---	---	---	17.5
29	---	---	10.5	12.0	14.0	18.0	---	---	---	---	28.0	---
30	14.0	8.0	---	---	---	---	---	---	---	---	---	18.0
31	---	---	8.0	14.0	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

TOTAL-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.6	5	.02	0	0	0	1.6	4	.02
2	1.6	5	.02	0	0	0	1.6	4	.02
3	1.6	5	.02	0	0	0	1.6	5	.02
4	1.6	5	.02	0	0	0	1.6	5	.02
5	1.5	4	.02	0	0	0	1.6	5	.02
6	1.5	3	.01	0	0	0	1.6	5	.02
7	1.5	3	.01	0	0	0	1.6	4	.02
8	1.5	3	.01	0	0	0	1.6	4	.02
9	3.2	105	2.9	0	0	0	1.6	4	.02
10	2.0	46	.38	0	0	0	1.6	4	.02
11	2.7	65	1.3	0	0	0	1.6	4	.02
12	1.6	3	.01	0	0	0	1.7	15	.07
13	1.6	3	.01	.21	2	0	1.6	9	.04
14	1.6	3	.01	1.6	6	.03	1.6	6	.03
15	1.6	3	.01	1.5	6	.02	1.6	4	.02
16	1.6	3	.01	1.6	6	.03	1.6	4	.02
17	1.5	2	.01	1.6	5	.02	1.6	4	.02
18	1.5	2	.01	1.6	4	.02	1.6	4	.02
19	1.4	2	.01	1.6	4	.02	1.6	4	.02
20	1.5	3	.01	1.6	4	.02	1.8	4	.02
21	1.4	4	.02	1.6	4	.02	2.0	4	.02
22	1.4	3	.01	1.6	4	.02	2.0	4	.02
23	1.3	2	.01	1.6	4	.02	2.0	3	.02
24	1.4	2	.01	1.6	5	.02	2.0	3	.02
25	1.5	3	.01	1.5	5	.02	2.0	3	.02
26	1.7	11	.10	1.6	5	.02	2.0	3	.02
27	.99	2	.01	1.6	6	.03	2.0	4	.02
28	0	0	0	1.6	5	.02	2.0	4	.02
29	0	0	0	1.6	5	.02	1.9	4	.02
30	.06	5	.01	1.6	4	.02	1.8	5	.02
31	0	0	0	---	---	---	1.8	5	.02
TOTAL	43.95	---	4.98	27.21	---	.37	53.8	---	.70

11169616 CALABAZAS CREEK AT RAINBOW DRIVE, NEAR CUPERTINO, CA--Continued

TOTAL-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.8	5	.02	1.0	10	.03	.01	3	0
2	1.7	5	.02	1.0	8	.02	4.4	251	5.5
3	1.6	8	.03	1.0	6	.02	.44	23	.05
4	1.6	15	.06	1.0	6	.02	.72	10	.02
5	1.6	12	.05	1.6	6	.03	1.9	20	.10
6	1.6	9	.04	.86	5	.01	1.8	20	.10
7	1.6	8	.03	1.0	5	.01	1.8	16	.08
8	1.7	8	.04	1.2	25	.26	1.7	14	.06
9	1.1	16	.13	0	0	0	1.6	12	.05
10	.47	8	.01	.79	6	.01	1.6	11	.05
11	1.6	8	.03	2.2	9	.05	1.7	11	.05
12	1.6	8	.03	2.3	11	.07	1.7	11	.05
13	1.6	8	.03	2.3	9	.06	1.6	11	.05
14	1.5	8	.03	2.2	8	.05	1.5	11	.04
15	1.5	7	.03	2.2	8	.05	1.4	11	.04
16	1.5	6	.02	2.1	8	.05	1.4	11	.04
17	1.5	5	.02	2.0	8	.04	1.3	11	.04
18	1.5	6	.02	2.1	8	.05	1.3	11	.04
19	1.5	7	.03	2.2	20	.12	1.3	10	.04
20	1.5	8	.03	2.0	8	.04	1.4	9	.03
21	1.5	10	.04	2.0	8	.04	1.2	8	.03
22	1.4	9	.03	2.0	8	.04	1.2	7	.02
23	1.5	8	.03	2.0	7	.04	1.1	6	.02
24	1.4	8	.03	2.0	6	.03	1.1	6	.02
25	1.4	9	.03	2.0	5	.03	1.1	5	.01
26	1.4	10	.04	2.0	5	.03	1.1	5	.01
27	1.4	11	.04	2.0	4	.02	1.0	4	.01
28	1.3	12	.04	1.9	4	.02	1.1	3	.01
29	1.2	14	.05	3.2	105	2.4	1.0	3	.01
30	1.1	13	.04	---	---	---	1.0	3	.01
31	1.1	12	.04	---	---	---	1.0	4	.01
TOTAL	44.77	---	1.11	50.15	---	3.64	42.47	---	6.59

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.0	5	.01	2.4	4	.03	1.5	1	0
2	1.0	7	.02	2.4	4	.03	1.5	1	0
3	1.0	7	.02	2.4	4	.03	1.5	4	.02
4	.99	6	.02	2.4	4	.03	1.6	2	.01
5	.99	6	.02	2.4	4	.03	1.5	1	0
6	.98	6	.02	2.4	4	.03	1.5	1	0
7	1.3	15	.08	2.4	4	.03	1.5	1	0
8	1.4	16	.06	2.4	5	.03	1.6	1	0
9	.95	7	.02	2.3	5	.03	1.5	2	.01
10	1.1	11	.04	2.0	5	.03	1.6	2	.01
11	.94	8	.02	2.0	5	.03	1.5	3	.01
12	.90	7	.02	2.0	6	.03	1.6	3	.01
13	.85	5	.01	2.0	6	.03	1.5	3	.01
14	.88	4	.01	2.0	6	.03	1.4	3	.01
15	.82	4	.01	1.9	6	.03	.84	3	.01
16	.83	4	.01	1.9	7	.04	0	0	0
17	.78	4	.01	1.9	7	.04	0	0	0
18	.74	3	.01	2.0	7	.04	0	0	0
19	.51	3	0	2.0	6	.03	0	0	0
20	0	0	0	1.8	5	.02	0	0	0
21	.96	2	.01	1.8	4	.02	0	0	0
22	2.7	5	.04	1.8	4	.02	0	0	0
23	2.6	6	.04	1.8	5	.02	0	0	0
24	2.5	7	.05	1.7	5	.02	0	0	0
25	2.7	8	.06	1.8	4	.02	0	0	0
26	2.6	6	.04	1.7	3	.01	0	0	0
27	2.6	4	.03	1.7	2	.01	0	0	0
28	2.6	4	.03	1.7	1	0	0	0	0
29	2.5	4	.03	1.8	1	0	0	0	0
30	2.5	4	.03	1.6	1	0	0	0	0
31	---	---	---	1.6	1	0	---	---	---
TOTAL	42.22	---	.77	62.0	---	.74	22.14	---	.10

11169616 CALABAZAS CREEK AT RAINBOW DRIVE, NEAR CUPERTINO, CA--Continued

TOTAL-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 to SEPTEMBER 1976

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	0	0	0	1.6	2	.01	.78	4	.01
2	.13	4	0	1.6	2	.01	.81	4	.01
3	2.0	3	.02	.77	1	0	.82	4	.01
4	2.2	4	.02	1.5	4	.02	.87	4	.01
5	2.2	4	.02	4.3	6	.07	.89	4	.01
6	2.2	5	.03	4.3	5	.06	.86	4	.01
7	2.2	5	.03	1.6	3	.01	.56	2	0
8	2.2	5	.03	1.8	4	.02	.21	2	0
9	2.2	5	.03	8.1	20	.44	.14	2	0
10	2.2	5	.03	5.4	10	.15	.15	2	0
11	2.2	5	.03	.78	5	.01	.17	2	0
12	2.2	6	.04	1.5	4	.02	.16	2	0
13	2.2	6	.04	1.6	3	.01	.08	2	0
14	2.2	6	.04	1.5	3	.01	.08	2	0
15	2.2	6	.04	1.5	3	.01	.06	1	0
16	2.2	6	.04	1.3	4	.01	.05	3	0
17	2.0	5	.03	1.3	3	.01	.06	1	0
18	2.0	5	.03	1.6	40	.27	.05	1	0
19	2.0	5	.03	1.6	36	.27	.06	2	0
20	2.0	5	.03	1.1	3	.01	.05	2	0
21	2.0	5	.03	1.0	3	.01	.03	1	0
22	1.8	3	.01	1.0	3	.01	.03	1	0
23	1.8	3	.01	.97	3	.01	.04	1	0
24	1.8	3	.01	.97	3	.01	.03	1	0
25	1.8	3	.01	.90	3	.01	.04	1	0
26	1.8	3	.01	.88	3	.01	.09	3	0
27	1.6	2	.01	.89	3	.01	.04	2	0
28	1.6	2	.01	.99	3	.01	.25	8	.02
29	1.6	2	.01	.88	3	.01	.28	6	.01
30	1.6	2	.01	.82	4	.01	.52	11	.03
31	1.6	2	.01	.77	4	.01	---	---	---
TOTAL	57.73	---	.69	54.82	---	1.53	8.26	---	.12
YEAR	509.52		21.34						

PARTICLE-SIZE DISTRIBUTION OF TOTAL SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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
FEB							
08...	1400	10.0	3.3	53	.47	--	--
29...	1440	13.5	7.7	121	2.5	--	--
29...	1520	14.0	8.6	94	2.2	--	--
MAR							
02...	0730	8.0	4.6	162	2.0	--	--
02...	0820	6.0	9.6	208	5.4	--	--
02...	1330	8.5	6.3	752	13	79	90
02...	1420	8.5	7.7	610	13	77	90

DATE	TOTAL SED. FALL DIAM. % FINER THAN .008 MM	TOTAL SED. FALL DIAM. % FINER THAN .016 MM	TOTAL SED. FALL DIAM. % FINER THAN .031 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .062 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .125 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .250 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .500 MM
FEB							
08...	--	--	--	93	96	100	--
29...	--	--	--	95	98	100	--
29...	--	--	--	96	96	97	100
MAR							
02...	--	--	--	98	99	100	--
02...	--	--	--	90	94	99	100
02...	96	97	99	100	--	--	--
02...	96	96	96	98	99	99	100

11169800 COYOTE CREEK NEAR GILROY, CA

LOCATION.--Lat 37°04'40", long 121°29'36", in NE¼SE¼ sec.11, T.10 S., R.4 E., Santa Clara County, on left bank 0.7 mi (1.1 km) downstream from Bear Creek, 5.0 mi (8.0 km) upstream from Coyote Creek Dam, and 6.4 mi (10.3 km) northeast of Gilroy.

DRAINAGE AREA.--109 mi^2 (282 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 790 ft (241 m), from topographic map. Prior to Nov. 14, 1963, at site 0.4 mi (0.6 km) downstream at different datum.

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

AVERAGE DISCHARGE.--16 years, 44.5 ft^3/s (1.260 m^3/s), 32,240 acre-ft/yr (39.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,100 ft^3/s (286 m^3/s) Jan. 31, 1963, gage height, 12.60 ft (3.840 m) site and datum then in use, from rating curve extended above 3,200 ft^3/s (90.6 m^3/s) on basis of slope-area measurement of maximum flow; no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22 ft^3/s (0.62 m^3/s) Mar. 3, gage height, 3.20 ft (0.975 m), no peak above base of 1,000 ft^3/s (28 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	.13	9.9	1.2	1.1	.43	.12		
2				0	.13	16	1.1	1.0	.43	.12		
3				0	.13	20	1.2	1.0	.43	.12		
4				0	.17	16	1.3	.95	.39	.11		
5				0	.20	12	1.2	.87	.39	.10		
6				.01	.20	8.0	1.2	.87	.39	.08		
7				.05	.23	4.0	1.3	.81	.39	.07		
8				.06	.23	2.3	1.4	.81	.39	.06		
9				.07	.29	1.9	1.0	.81	.43	.05		
10				.07	.29	1.7	1.2	.74	.43	.04		
11				.07	.29	1.4	1.7	.74	.39	.03		
12				.07	.29	1.3	1.9	.68	.43	.03		
13				.09	.36	1.2	2.0	.68	.43	.02		
14				.09	.36	1.0	2.2	.68	.39	.02		
15				.09	.39	1.1	2.0	.62	.39	.02		
16				.09	.39	1.2	1.7	.62	.39	.01		
17				.09	.39	1.1	1.7	.57	.38	.01		
18				.11	.48	1.2	1.9	.57	.37	.01		
19				.11	.48	1.2	1.7	.57	.35	0		
20				.11	.52	1.2	1.6	.57	.34	0		
21				.11	.68	1.4	1.6	.57	.28	0		
22				.11	1.2	1.3	1.6	.57	.27	0		
23				.11	1.4	1.2	1.4	.57	.26	0		
24				.11	1.4	1.2	1.4	.57	.24	0		
25				.11	1.4	1.2	1.3	.57	.24	0		
26				.11	1.3	1.1	1.3	.57	.23	0		
27				.13	1.3	1.1	1.3	.52	.20	0		
28				.13	1.3	1.1	1.2	.48	.18	0		
29				.13	1.9	1.0	1.1	.48	.15	0		
30				.13	---	1.1	1.1	.48	.14	0		
31		---		.13	---	1.1	---	.48	---	0		---
TOTAL	0	0	0	2.49	17.83	116.5	43.8	21.12	10.15	1.02	0	0
MEAN	0	0	0	.080	.61	3.76	1.46	.68	.34	.033	0	0
MAX	0	0	0	.13	1.9	20	2.2	1.1	.43	.12	0	0
MIN	0	0	0	0	.13	1.0	1.0	.48	.14	0	0	0
AC-FT	0	0	0	4.9	35	231	87	42	20	2.0	0	0

CAL YR 1975	TOTAL	16999.34	MEAN 46.6	MAX 1020	MIN 0	AC-FT	33720	
WTR YR 1976	TOTAL	212.91	MEAN .58	MAX 20	MIN 0	AC-FT	422	

11169800 COYOTE CREEK NEAR GILROY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to September 1976 (discontinued).
WATER TEMPERATURES: Water years 1965 to September 1976 (discontinued).
SEDIMENT RECORDS: Water years 1965 to September 1976 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: December 1964 to September 1976 (discontinued).
SEDIMENT RECORDS: December 1964 to September 1976 (discontinued).

REMARKS.--Sediment table omitted for period of no flow during Oct. 1 to Dec. 31.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,220 mg/L Jan. 19, 1969; minimum daily mean, 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.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 15 mg/L Apr. 8, 9, 14; minimum daily mean, no flow for many days.
SEDIMENT DISCHARGE: Maximum daily, 0.11 ton (0.10 tonne) Mar. 3; minimum daily, 0 tons (0 tonnes) on many days.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				---	---	---	---	---	---	---		
2				---	---	7.0	---	---	---	17.5		
3				---	---	6.5	10.5	---	---	---		
4				---	---	6.0	---	---	---	---		
5				---	---	---	---	---	---	---		
6				---	6.0	---	---	---	---	---		
7				---	---	---	---	---	17.0	---		
8				---	---	9.5	11.0	---	---	---		
9				---	---	12.5	---	---	---	---		
10				---	---	---	10.0	---	---	---		
11				---	---	13.0	---	22.0	---	---		
12				---	---	---	10.0	---	---	---		
13				---	7.0	---	---	10.0	---	---		
14				---	---	---	10.5	---	---	---		
15				---	---	15.0	---	---	---	---		
16				---	---	---	---	---	17.0	---		
17				---	---	10.0	---	---	---	---		
18				---	---	---	---	---	---	---		
19				---	---	---	---	---	---	---		
20				---	7.5	14.0	12.0	---	---	---		
21				---	---	---	---	---	---	---		
22				---	---	---	---	---	19.0	---		
23				---	---	---	11.5	---	---	---		
24				---	---	8.5	---	---	---	---		
25				8.0	---	---	---	---	---	---		
26				10.5	---	9.0	10.5	---	---	---		
27				---	---	---	---	12.0	---	---		
28				---	---	---	---	---	---	---		
29				8.0	---	---	11.0	---	---	---		
30				---	---	11.0	---	---	---	---		
31				---	---	---	---	---	---	---		
MONTH				---	---	---	---	---	---	---		

11169800 COYOTE CREEK NEAR GILROY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	0	0	0	.13	3	0	9.9	1	.03
2	0	0	0	.13	3	0	16	1	.04
3	0	0	0	.13	3	0	20	2	.11
4	0	0	0	.17	2	0	16	2	.09
5	0	0	0	.20	2	0	12	2	.06
6	.01	1	0	.20	2	0	8.0	2	.04
7	.05	1	0	.23	2	0	4.0	3	.03
8	.06	1	0	.23	2	0	2.3	3	.02
9	.07	1	0	.29	2	0	1.9	5	.03
10	.07	1	0	.29	2	0	1.7	5	.02
11	.07	1	0	.29	2	0	1.4	6	.02
12	.07	1	0	.29	3	0	1.3	6	.02
13	.09	2	0	.36	3	0	1.2	7	.02
14	.09	2	0	.36	3	0	1.0	7	.02
15	.09	2	0	.39	3	0	1.1	8	.02
16	.09	2	0	.39	4	0	1.2	7	.02
17	.09	2	0	.39	4	0	1.1	6	.02
18	.11	3	0	.48	4	.01	1.2	6	.02
19	.11	3	0	.48	5	.01	1.2	7	.02
20	.11	3	0	.52	5	.01	1.2	8	.03
21	.11	3	0	.68	5	.01	1.4	7	.03
22	.11	4	0	1.2	4	.01	1.3	6	.02
23	.11	4	0	1.4	4	.02	1.2	5	.02
24	.11	4	0	1.4	4	.02	1.2	5	.02
25	.11	4	0	1.4	3	.01	1.2	7	.02
26	.11	4	0	1.3	3	.01	1.1	8	.02
27	.13	4	0	1.3	3	.01	1.1	7	.02
28	.13	4	0	1.3	2	.01	1.1	7	.02
29	.13	4	0	1.9	2	.01	1.0	6	.02
30	.13	4	0	---	---	---	1.1	5	.01
31	.13	3	0	---	---	---	1.1	6	.02
MONTH	2.49	---	0	17.83	---	.14	116.5	---	.90

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.2	7	.02	1.1	3	.01	.43	2	0
2	1.1	8	.02	1.0	3	.01	.43	2	0
3	1.2	10	.03	1.0	3	.01	.43	2	0
4	1.3	11	.04	.95	3	.01	.39	2	0
5	1.2	12	.04	.87	3	.01	.39	2	0
6	1.2	13	.04	.87	3	.01	.39	2	0
7	1.3	14	.05	.81	3	.01	.39	2	0
8	1.4	15	.06	.81	2	0	.39	2	0
9	1.0	15	.04	.81	2	0	.43	2	0
10	1.2	14	.05	.74	2	0	.43	2	0
11	1.7	12	.06	.74	2	0	.39	2	0
12	1.9	10	.05	.68	2	0	.43	2	0
13	2.0	13	.07	.68	2	0	.43	3	0
14	2.2	15	.09	.68	2	0	.39	3	0
15	2.0	13	.07	.62	2	0	.39	3	0
16	1.7	11	.05	.62	2	0	.39	3	0
17	1.7	9	.04	.57	2	0	.38	3	0
18	1.9	7	.04	.57	2	0	.37	4	0
19	1.7	5	.02	.57	2	0	.35	4	0
20	1.6	5	.02	.57	2	0	.34	4	0
21	1.6	4	.02	.57	2	0	.28	4	0
22	1.6	3	.01	.57	2	0	.27	5	0
23	1.4	2	.01	.57	2	0	.26	5	0
24	1.4	2	.01	.57	2	0	.24	5	0
25	1.3	1	0	.57	2	0	.24	4	0
26	1.3	1	0	.57	2	0	.23	4	0
27	1.3	1	0	.52	2	0	.20	4	0
28	1.2	2	.01	.48	2	0	.18	4	0
29	1.1	3	.01	.48	2	0	.15	4	0
30	1.1	3	.01	.48	2	0	.14	3	0
31	---	---	---	.48	2	0	---	---	---
MONTH	43.8	---	.98	21.12	---	.07	10.15	---	0

11169800 COYOTE CREEK NEAR GILROY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	0						
2	.12	3	0						
3	.12	3	0						
4	.11	3	0						
5	.10	2	0						
6	.08	2	0						
7	.07	2	0						
8	.06	2	0						
9	.05	2	0						
10	.04	2	0						
11	.03	1	0						
12	.03	1	0						
13	.02	1	0						
14	.02	1	0						
15	.02	1	0						
16	.01	1	0						
17	.01	1	0						
18	.01	1	0						
19	0	0	0						
20	0	0	0						
21	0	0	0						
22	0	0	0						
23	0	0	0						
24	0	0	0						
25	0	0	0						
26	0	0	0						
27	0	0	0						
28	0	0	0						
29	0	0	0						
30	0	0	0						
31	0	0	0				---	---	---
MONTH	1.02	---	0	0	---	0	0	---	0
YEAR	212.91		2.09						

RESERVOIRS IN COYOTE CREEK BASIN, CA

11169850 COYOTE LAKE.--Lat 37°07'06", long 121°32'55", in SE¼ sec.29, T.9 S., R.4 E., Santa Clara County, at center of dam on Coyote Creek, 3.8 mi (6.1 km) northeast of San Martin. DRAINAGE AREA, 120 mi^2 (311 km^2). PERIOD OF RECORD, February 1936 to current year. Monthly contents prior to October 1959, published in WSP 1735. GAGE, nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Santa Clara Valley Water District).

Reservoir is formed by rock- and earthfill dam completed in 1936. Capacity, 23,700 acre-ft (29.2 hm^3) between elevations 693.3 ft (211.32 m), invert of outlet tunnel and 777.2 ft (236.89 m), crest of spillway. Water released down Coyote Creek for storage in Anderson Lake. Record of contents furnished by Santa Clara Valley Water District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 28,120 acre-ft (34.7 hm^3) Dec. 8, 1950, elevation, 782.5 ft (238.51 m); no contents at times.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 20,780 acre-ft (25.6 hm^3) Oct. 1, elevation, 772.58 ft (235.482 m); minimum observed, 7,810 acre-ft (9.63 hm^3) Sept. 30, elevation, 746.07 ft (227.402 m).

11169920 ANDERSON LAKE.--Lat 37°09'56", long 121°37'42", in southeast corner of La Laguna Seca Grant, Santa Clara County, at center of dam on Coyote Creek, 2.5 mi (4.0 km) northeast of Madrone. DRAINAGE AREA, 195 mi^2 (505 km^2). PERIOD OF RECORD, December 1950 to current year. Monthly contents prior to October 1959, published in WSP 1735. GAGE, nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Santa Clara Valley Water District).

Reservoir is formed by earth- and rockfill dam completed in 1950. Capacity, 91,280 acre-ft (113 hm^3) between elevations 439 ft (133.8 m), invert of outlet tunnel and 625.0 ft (190.50 m), crest of spillway. Water released down Coyote Creek for irrigation and ground-water recharge by percolation. Record of contents furnished by Santa Clara Valley Water District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 95,990 acre-ft (118 hm^3) Apr. 3, 1958, elevation, 628.67 ft (191.619 m), from floodmarks ; no contents at times in 1960-62.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 69,910 acre-ft (86.2 hm^3) Oct. 1, elevation, 606.13 ft (184.748 m); minimum observed, 35,750 acre-ft (44.1 hm^3) Sept. 30, elevation, 565.13 ft (172.252 m).

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY STORAGE ABOVE SPILLWAY CREST), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Coyote Lake	Anderson Lake
Sept. 30, 1975.....	20780	69910
Oct. 31.....	19920	67520
Nov. 30.....	19090	65850
Dec. 31.....	18200	64550
Jan. 31, 1976.....	15120	65220
Feb. 29.....	14280	63450
Mar. 31.....	13210	61620
Apr. 30.....	12280	59050
May 31.....	11170	54560
June 30.....	10290	48560
July 31.....	9410	43030
Aug. 31.....	8590	39530
Sept. 30.....	7810	35750

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

11170000 COYOTE CREEK NEAR MADRONE, CA

LOCATION.--Lat 37°10'06", long 121°38'55", near southeast corner of La Laguna Seca Grant, Santa Clara County, on right bank 1.2 mi (1.9 km) downstream from Anderson Dam, and 1.8 mi (2.9 km) northeast of Madrone.

DRAINAGE AREA.--196 mi^2 (508 km^2).

PERIOD OF RECORD.--October 1902 to September 1912, December 1916 to current year. Records for water years 1917-19 incomplete, yearly estimates published in WSP 1315-B. Published as Coyote River near Madrone 1902-12, 1916-26.

REVISED RECORDS.--WSP 1345: 1932, 1935(M).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 375 ft (114 m), from topographic map. Prior to Mar. 1, 1950, nonrecording gage and water-stage recorders at various sites within 1.4 mi (2.3 km) upstream at different datums.

REMARKS.--Records good. Flow regulated by Coyote (station 11169880) and Anderson (station 11169920) Lakes; water released during summer. Water is diverted to Main Avenue percolation ponds by Santa Clara Valley Water District.

AVERAGE DISCHARGE (unadjusted).--70 years, 64.4 ft^3/s (1.824 m^3/s), 46,660 acre-ft/yr (57.5 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft^3/s (708 m^3/s) probably Mar. 7, 1911 (record furnished by Duryea, Haehl, and Gilman); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 113 ft^3/s (3.20 m^3/s) June 18, gage height, 2.57 ft (0.783 m); minimum daily, 1.1 ft^3/s (0.031 m^3/s) Nov. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	35	32	26	31	38	35	55	78	110	72	57
2	46	35	32	27	34	43	35	53	78	113	69	57
3	44	34	32	24	41	42	35	55	78	113	63	57
4	44	17	32	25	46	40	36	53	79	103	59	57
5	46	1.1	32	26	47	38	36	55	79	85	54	57
6	44	4.6	32	27	47	36	39	61	80	83	54	60
7	44	2.3	31	27	47	36	39	61	80	83	54	59
8	44	9.7	30	27	47	36	39	61	80	85	54	59
9	42	10	30	28	45	36	39	61	80	85	52	61
10	44	7.8	30	29	39	36	38	61	82	85	51	61
11	44	10	30	27	41	36	38	61	86	85	52	61
12	42	7.8	31	28	41	36	38	64	87	85	51	61
13	42	6.7	31	27	41	36	38	64	88	83	51	61
14	41	22	31	29	41	36	39	61	86	80	51	61
15	39	36	31	33	40	36	31	61	85	80	46	59
16	38	38	31	33	40	36	39	64	84	80	20	61
17	38	36	30	34	40	36	41	66	95	80	20	62
18	38	36	30	34	39	38	41	66	109	80	20	61
19	38	36	30	34	39	36	39	57	109	80	20	61
20	38	36	30	34	39	36	39	57	110	80	21	61
21	38	36	30	35	39	36	39	57	110	80	27	59
22	38	36	30	34	39	36	43	57	112	77	27	56
23	38	36	28	32	39	35	51	57	111	77	30	55
24	38	36	26	30	39	35	57	61	111	77	34	53
25	38	36	26	30	39	35	57	71	110	77	34	53
26	38	36	26	29	39	35	55	78	110	75	46	55
27	38	38	25	29	39	35	55	78	111	70	59	54
28	38	38	25	30	39	35	55	78	110	71	59	54
29	38	35	25	31	42	35	55	78	109	75	58	51
30	38	31	25	31	---	35	55	78	110	72	58	51
31	36	---	26	31	---	35	---	78	---	72	58	---
TOTAL	1261	779.0	910	921	1179	1130	1276	1968	2837	2581	1424	1735
MEAN	40.7	26.0	29.4	29.7	40.7	36.5	42.5	63.5	94.6	83.3	45.9	57.8
MAX	49	38	32	35	47	43	57	78	112	113	72	62
MIN	36	1.1	25	24	31	35	31	53	78	70	20	51
AC-FT	2500	1550	1800	1830	2340	2240	2530	3900	5630	5120	2820	3440
(†)	585	381	827	980	988	543	635	720	756	789	716	611

CAL YR 1975 TOTAL 17141.0 MEAN 47.0 MAX 213 MIN 1.1 AC-FT 34000 † 6,560
WTR YR 1976 TOTAL 18001.0 MEAN 49.2 MAX 113 MIN 1.1 AC-FT 35700 † 8,530

† Diversion, in acre-feet, to Main Avenue percolation ponds, furnished by Santa Clara Valley Water District.

11172100 UPPER PENITENCIA CREEK AT SAN JOSE, CA

LOCATION.--Lat 37°23'43", long 121°49'38", on north boundary of San Jose Pala Grant, Santa Clara County, on left bank at downstream side of Dorel Drive bridge, 0.1 mi (0.2 km) upstream from Dutard Creek near northeast limits of San Jose.

DRAINAGE AREA.--21.5 mi^2 (55.7 km^2).

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

GAGE.--Water-stage recorder. Concrete control since Sept. 12, 1963. Datum of gage is 265.30 ft (80.863 m) above mean sea level. Prior to Aug. 3, 1962, at site 0.4 mi (0.6 km) downstream at different datum.

REMARKS.--Records good. Flow partly regulated by Cherry Flat Reservoir 5 mi (8 km) upstream, capacity, 500 acre-ft (616,000 m^3).

AVERAGE DISCHARGE.--15 years, 5.09 ft^3/s (0.144 m^3/s), 3,690 acre-ft/yr (4.55 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,500 ft^3/s (42.5 m^3/s) Jan. 21, 1967, gage height, 6.24 ft (1.902 m) in gage well, 7.8 ft (2.38 m) from outside gage, from rating curve extended above 270 ft^3/s (7.65 m^3/s) on basis of slope-area measurement of maximum flow; no flow at times in some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known since at least 1935, 2,100 ft^3/s (59.5 m^3/s) Apr. 2, 1958, from information furnished by Santa Clara Valley Water District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2.8 ft^3/s (0.079 m^3/s) Mar. 2, gage height, 2.95 ft (0.899 m), no peak above base of 90 ft^3/s (2.5 m^3/s); no flow for several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.42	.77	.42	.47	.52	1.1	.70	.26	.14	.01	.04	.05
2	.22	.70	.47	.47	.51	1.9	.52	.26	.11	.12	.03	.10
3	.47	.64	.33	.47	.50	1.6	.52	.25	.12	.15	0	.14
4	.20	.58	.42	.47	.51	1.5	.52	.24	.11	.03	.02	.22
5	.17	.58	.47	.47	.55	1.2	.56	.21	.12	.02	.01	.23
6	.22	.58	.42	.47	.54	1.0	.52	.20	.13	.01	.03	.18
7	.42	.58	.47	.47	.53	.94	.60	.19	.13	.01	.10	.16
8	.64	.64	.42	.42	.63	.89	.96	.17	.10	.01	.10	.08
9	.70	.58	.42	.46	.59	.92	.78	.17	.17	.01	.06	.09
10	.77	.70	.37	.42	.56	.77	.67	.19	.15	0	.03	.14
11	.77	.64	.42	.84	.46	.77	.63	.14	.14	0	0	.24
12	.64	.64	.37	.84	.46	.70	.57	.10	.13	.01	.01	.27
13	.58	.64	.47	.52	.47	.64	.53	.08	.13	.01	.01	.25
14	.58	.64	.47	.52	.61	.64	.48	.10	.10	0	.02	.20
15	.58	.64	.42	.47	.57	.58	.45	.12	.04	.02	.11	.27
16	.58	.70	.42	.47	.53	.58	.40	.16	.04	.01	.04	.28
17	.52	.64	.42	.47	.52	.58	.40	.15	.03	.01	.07	.22
18	.58	.64	.47	.47	.52	.64	.40	.14	.13	.01	.18	.27
19	.47	.64	.52	.42	.62	.58	.40	.13	.22	.01	.29	.26
20	.47	.42	.52	.42	.59	.58	.39	.14	.08	.02	.12	.24
21	.47	.37	.52	.42	.54	.58	.38	.13	.10	.02	.07	.21
22	.47	.33	.47	.52	.52	.58	.38	.16	.05	.03	.07	.19
23	.47	.37	.42	.58	.51	.58	.36	.21	.03	.02	.07	.20
24	.47	.33	.47	.58	.47	.58	.34	.18	.01	.01	.08	.16
25	.77	.29	.58	.58	.47	.58	.34	.11	0	.01	.06	.16
26	1.5	.37	.52	.52	.47	.58	.40	.08	0	.01	.04	.16
27	1.3	.42	.52	.47	.47	1.1	.37	.08	0	.01	.06	.15
28	1.3	.42	.52	.42	.47	1.6	.27	.12	0	0	.09	.53
29	1.2	.47	.47	.52	.76	1.7	.28	.11	0	.01	.11	.46
30	1.4	.47	.47	.52	---	1.0	.26	.18	0	.01	.08	.28
31	.70	---	.47	.52	---	.70	---	.20	---	.02	.08	---
TOTAL	20.05	16.43	14.14	15.68	15.47	27.69	14.38	4.96	2.51	.62	2.08	6.39
MEAN	.65	.55	.46	.51	.53	.89	.48	.16	.084	.020	.067	.21
MAX	1.5	.77	.58	.84	.76	1.9	.96	.26	.22	.15	.29	.53
MIN	.17	.29	.33	.42	.46	.58	.26	.08	0	0	0	.05
AC-FT	40	33	28	31	31	55	29	9.8	5.0	1.2	4.1	13

CAL YR 1975 TOTAL 2619.02 MEAN 7.18 MAX 199 MIN .06 AC-FT 5190
WTR YR 1976 TOTAL 140.40 MEAN .38 MAX 1.9 MIN 0 AC-FT 278

11173200 ARROYO HONDO NEAR SAN JOSE, CA

LOCATION.--Lat 37°27'42", long 121°46'06", in NE¼NE¼ sec.32, T.5 S., R.2 E., Santa Clara County, on right bank 150 ft (46 m) upstream from road bridge, 3.5 mi (5.6 km) southeast of Calaveras Dam, 3.5 mi (5.6 km) northeast of city limits of San Jose.

DRAINAGE AREA.--77.1 mi^2 (199.7 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 783.86 ft (238.921 m) above mean sea level.

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

AVERAGE DISCHARGE.--8 years, 50.9 ft^3/s (1.441 m^3/s), 36,880 acre-ft/yr (45.5 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,620 ft^3/s (131 m^3/s) Jan. 26, 1969, gage height, 10.94 ft (3.335 m); minimum daily, 0.11 ft^3/s (0.003 m^3/s) July 28-30, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 41 ft^3/s (1.16 m^3/s) Mar. 1, gage height, 4.15 ft (1.265 m), no peak above base of 800 ft^3/s (23 m^3/s); minimum daily, 0.29 ft^3/s (0.008 m^3/s) Aug. 29 to Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	4.7	3.8	3.3	2.9	24	3.4	2.8	.95	.56	.38	.29
2	1.9	3.7	3.7	3.3	2.9	21	3.4	2.8	.89	.56	.38	.31
3	1.9	3.3	3.7	3.3	2.9	19	3.7	2.7	.89	.55	.38	.33
4	1.8	3.2	3.7	3.3	2.9	20	3.9	2.6	.89	.55	.38	.35
5	1.8	3.0	3.7	3.4	3.1	17	3.8	2.5	.89	.55	.36	.37
6	1.9	3.0	3.7	3.4	3.3	20	3.7	2.4	.84	.55	.37	.38
7	2.0	3.0	3.7	3.6	3.4	19	3.7	2.3	.84	.45	.37	.40
8	2.0	3.0	3.6	3.6	3.8	17	5.2	2.2	.89	.45	.35	.39
9	2.1	3.2	3.6	3.8	5.0	15	6.0	2.0	.89	.44	.34	.39
10	2.3	3.7	3.6	4.1	5.2	13	5.6	2.0	.84	.42	.33	.40
11	2.6	4.1	3.4	4.1	4.2	11	5.8	2.0	.84	.41	.32	.43
12	4.5	3.8	3.7	3.8	3.8	9.5	5.8	2.0	.84	.43	.32	.44
13	3.4	3.4	4.5	3.8	3.7	7.8	4.7	1.8	.84	.42	.32	.43
14	3.0	3.3	4.4	3.7	4.4	6.2	4.5	1.7	.84	.41	.35	.43
15	2.7	3.2	4.1	3.6	5.0	5.4	4.4	1.6	.73	.41	.48	.44
16	2.6	3.2	3.8	3.6	4.5	5.0	4.1	1.5	.73	.40	.34	.44
17	2.4	3.1	3.7	3.4	4.4	4.7	3.9	1.5	.70	.40	.34	.44
18	2.3	2.8	3.7	3.3	4.4	4.7	3.8	1.4	.70	.41	.43	.43
19	2.3	3.0	3.6	3.3	4.9	5.2	3.8	1.3	.70	.41	.56	.43
20	2.2	3.0	3.6	3.2	5.8	5.0	3.7	1.2	.67	.39	.40	.44
21	2.2	3.1	3.6	3.2	5.6	4.4	3.6	1.1	.64	.38	.37	.43
22	2.2	3.2	3.8	3.1	4.7	3.9	3.4	1.1	.64	.37	.38	.41
23	2.1	3.2	4.2	3.1	4.2	3.8	3.3	1.1	.58	.36	.37	.40
24	2.0	3.2	3.9	3.1	3.9	3.8	3.2	1.1	.58	.36	.35	.40
25	2.0	3.2	3.8	3.0	3.7	3.7	3.2	1.1	.58	.35	.33	.41
26	2.6	3.2	3.8	3.0	3.7	3.6	3.1	1.0	.58	.34	.31	.41
27	4.2	3.3	3.7	3.0	3.6	3.6	3.0	.95	.58	.33	.30	.41
28	3.9	4.2	3.6	2.9	3.6	3.7	2.9	1.0	.58	.34	.30	.84
29	3.3	5.0	3.6	2.9	5.2	3.6	2.9	1.0	.56	.34	.29	.74
30	6.2	4.1	3.4	2.9	---	3.6	2.8	.95	.56	.35	.29	.64
31	8.1	---	3.4	2.9	---	3.4	---	.95	---	.37	.29	---
TOTAL	86.4	102.4	116.1	104.0	118.7	290.6	118.3	51.65	22.28	13.06	11.08	13.05
MEAN	2.79	3.41	3.75	3.35	4.09	9.37	3.94	1.67	.74	.42	.36	.44
MAX	8.1	5.0	4.5	4.1	5.8	24	6.0	2.8	.95	.56	.56	.84
MIN	1.8	2.8	3.4	2.9	2.9	3.4	2.8	.95	.56	.33	.29	.29
AC-FT	171	203	230	206	235	576	235	102	44	26	22	26

CAL YR 1975 TOTAL 25294.10 MEAN 69.3 MAX 1640 MIN 1.8 AC-FT 50170
WTR YR 1976 TOTAL 1047.62 MEAN 2.86 MAX 24 MIN .29 AC-FT 2080

11176000 ARROYO MOCHO NEAR LIVERMORE, CA

LOCATION.--Lat 37°37'35", long 121°42'13", in NW¼SE¼ sec.36, T.3 S., R.2 E., Alameda County, on right bank 40 ft (12 m), revised , downstream from Mines Road bridge, 2.4 mi (3.9 km) upstream from small right-bank tributary, and 5.2 mi (8.4 km) southeast of Livermore.

DRAINAGE AREA.--38.2 mi^2 (98.9 km^2).

PERIOD OF RECORD.--January 1912 to September 1930, October 1963 to current year. Records for water year 1914 incomplete, yearly estimate and monthly discharge only for some months, published in WSP 1315-B.

GAGE.--Water-stage recorder. Concrete control since Aug. 5, 1964 (ineffective due to gravel fill). Datum of gage is 746.49 ft (227.530 m) above mean sea level. 1912 to October 1914 at present site at different datum. November 1914 to Sept. 30, 1930, at site 1 mi (2 km) upstream at different datum.

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

AVERAGE DISCHARGE.--31 years, 4.32 ft^3/s (0.122 m^3/s), 3,130 acre-ft/yr (3.86 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 1,250 ft^3/s (35.4 m^3/s) Jan. 22, 1967, gage height, 5.90 ft (1.798 m), from rating curve extended above 460 ft^3/s (13.0 m^3/s); maximum daily discharge, 1,000 ft^3/s (28.3 m^3/s) Jan. 25, 1914 (estimated); no flow for parts of most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 23, 1955, discharge 1,880 ft^3/s (53.2 m^3/s), by slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 57 ft^3/s (1.61 m^3/s) Oct. 30, gage height, 5.51 ft (1.679 m), no peak above base of 90 ft^3/s (2.5 m^3/s); no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.08	.97	.44	.75	.44	.98	.35	.18	.04			
2	.08	.77	.44	.77	.44	1.7	.35	.21	.03			
3	.08	.64	.48	.72	.44	1.9	.30	.21	.02			
4	.08	.63	.50	.70	.44	1.3	.34	.19	.02			
5	.08	.57	.50	.70	.47	.87	.34	.16	.02			
6	.06	.57	.50	.65	.54	.67	.34	.15	.02			
7	.06	.54	.50	.62	.61	.55	.36	.15	.02			
8	.06	.50	.50	.60	.70	.50	.40	.13	.02			
9	.06	.50	.50	.58	1.0	.49	.43	.12	.02			
10	.07	.44	.50	.64	1.1	.44	.48	.12	.02			
11	.10	.50	.50	.64	.84	.44	.50	.12	.02			
12	.14	.57	.50	.57	.65	.43	.44	.12	.02			
13	.15	.57	.50	.57	.57	.46	.47	.10	.01			
14	.15	.50	.50	.57	.57	.45	.46	.09	0			
15	.15	.48	.54	.57	.57	.42	.42	.08	0			
16	.15	.48	.57	.57	.57	.44	.40	.07	0			
17	.15	.57	.55	.56	.60	.43	.42	.06	0			
18	.15	.50	.55	.50	.61	.38	.41	.06	0			
19	.15	.50	.50	.44	.78	.38	.40	.07	0			
20	.15	.50	.50	.50	.84	.41	.36	.07	0			
21	.15	.44	.57	.50	.84	.41	.33	.07	0			
22	.15	.44	.68	.50	.70	.38	.31	.06	0			
23	.15	.39	.72	.50	.59	.36	.30	.06	0			
24	.15	.44	.77	.44	.55	.34	.27	.06	0			
25	.17	.44	.78	.44	.44	.34	.22	.05	0			
26	.22	.44	.72	.44	.46	.35	.21	.05	0			
27	.25	.39	.72	.44	.44	.33	.24	.05	0			
28	.25	.39	.72	.44	.46	.31	.21	.04	0			
29	.27	.43	.72	.44	.49	.39	.21	.04	0			
30	2.3	.50	.72	.44	---	.39	.21	.04	0			
31	1.2	---	.72	.44	---	.34	---	.04	---			---
TOTAL	7.41	15.60	17.91	17.24	17.75	17.58	10.48	3.02	.28	0	0	0
MEAN	.24	.52	.58	.56	.61	.57	.35	.097	.009	0	0	0
MAX	2.3	.97	.78	.77	1.1	1.9	.50	.21	.04	0	0	0
MIN	.06	.39	.44	.44	.44	.31	.21	.04	0	0	0	0
AC-FT	15	31	36	34	35	35	21	6.0	.6	0	0	0

CAL YR 1975 TOTAL 2357.41 MEAN 6.46 MAX 284 MIN .04 AC-FT 4680
WTR YR 1976 TOTAL 107.27 MEAN .29 MAX 2.3 MIN 0 AC-FT 213

11176200 ARROYO MOCHO NEAR PLEASANTON, CA

LOCATION.--Lat 37°41'26", long 121°52'20", in Santa Rita Grant, Alameda County, on right bank 0.3 mi (0.5 km) upstream from Santa Rita Road, 0.8 mi (1.3 km) downstream from Arroyo Las Positas, and 2 mi (3 km) north of Pleasanton.

DRAINAGE AREA.--143 mi^2 (370 km^2).

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 319.51 ft (97.387 m) above mean sea level. Prior to Oct. 30, 1967, at site 0.4 mi (0.6 km) downstream at different datum. Dec. 8, 1967, to July 7, 1968, nonrecording gage at bridge 0.3 mi (0.5 km) downstream at different datum.

REMARKS.--Records good. No regulation. Waste water from Livermore sewage disposal plant and gravel operations enters stream about 4 mi (6 km) upstream from gage.

AVERAGE DISCHARGE.--14 years, 5.77 ft^3/s (0.163 m^3/s), 10,220 acre-ft/yr (12.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,760 ft^3/s (49.8 m^3/s) Feb. 1, 1963, gage height, 8.60 ft (2.621 m) site and datum then in use, from rating curve extended above 58 ft^3/s (1.64 m^3/s) on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 62 ft^3/s (1.76 m^3/s) Feb. 29, gage height, 8.79 ft (2.679 m), no peak above base of 250 ft^3/s (7.1 m^3/s); minimum daily, 0.26 ft^3/s (0.007 m^3/s) July 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	11	6.1	12	10	15	5.1	8.0	7.4	2.8	4.6	1.6
2	2.8	6.7	5.1	7.0	6.3	19	5.9	8.6	4.1	3.1	2.0	1.5
3	7.0	6.8	4.1	7.4	5.4	18	5.9	9.9	3.2	2.2	8.6	1.7
4	6.6	6.6	6.3	7.9	2.7	2.9	6.4	11	2.2	3.0	7.4	2.1
5	7.7	5.6	6.1	7.7	6.0	7.2	7.4	1.8	2.3	1.0	.93	2.0
6	6.6	6.4	6.8	7.7	6.9	16	6.6	5.6	3.4	1.2	1.8	2.3
7	6.2	6.4	6.8	6.6	5.8	17	5.8	5.6	5.4	.97	6.8	3.5
8	4.4	9.4	6.9	5.7	2.9	8.8	10	6.4	4.6	1.3	3.6	6.1
9	5.6	11	1.9	8.1	2.4	7.5	7.4	6.9	4.7	1.2	1.4	2.9
10	6.9	8.2	2.9	9.6	5.0	2.3	9.1	8.7	5.3	.76	2.1	4.1
11	16	6.2	5.9	4.8	5.2	9.7	10	4.6	5.8	5.9	4.0	5.2
12	6.1	5.7	7.3	4.7	4.6	3.7	6.7	4.7	6.5	2.4	2.3	5.1
13	5.8	6.5	6.8	4.5	4.7	10	9.8	3.7	5.1	.63	6.1	4.5
14	5.7	7.2	8.4	2.2	5.2	12	4.6	3.5	4.5	.59	4.3	2.7
15	5.9	9.1	6.9	4.3	4.0	5.9	4.0	4.4	3.3	2.2	6.8	2.0
16	2.2	8.3	5.9	6.0	3.4	3.7	5.7	4.0	2.1	.50	7.3	2.7
17	.56	11	6.8	5.6	4.1	4.6	5.4	3.8	1.9	.35	5.5	4.1
18	4.4	5.7	15	5.7	4.8	4.4	5.9	3.2	2.3	1.4	4.8	3.2
19	7.7	5.8	12	5.8	7.1	5.3	5.6	3.5	1.5	1.2	8.8	4.4
20	6.3	5.8	5.9	5.1	6.4	5.9	5.7	2.9	3.7	.42	4.0	.45
21	6.9	6.2	6.2	5.3	7.2	7.2	5.1	4.1	3.1	1.1	7.2	.46
22	7.4	9.2	6.3	9.7	6.8	7.1	4.9	6.0	3.2	.97	8.9	1.7
23	6.5	6.1	5.3	5.7	6.0	5.3	5.0	6.2	4.3	.26	5.6	3.8
24	5.8	6.4	5.4	12	14	4.2	7.8	5.6	3.2	2.6	2.9	4.8
25	6.0	5.8	12	8.6	7.8	4.6	6.5	5.3	2.7	4.8	2.7	3.4
26	8.1	5.8	7.3	4.9	6.5	10	7.1	9.6	1.8	3.3	5.3	3.6
27	7.7	6.3	13	5.1	5.6	13	7.1	9.0	6.9	2.3	3.5	4.9
28	6.3	4.9	9.0	2.8	7.1	11	7.7	6.7	3.5	4.6	2.3	14
29	5.3	5.2	7.2	1.3	24	5.2	9.0	6.0	3.8	2.5	3.4	22
30	14	5.3	6.8	4.7	---	5.9	7.8	6.3	2.7	2.5	3.7	6.8
31	13	---	7.1	14	---	4.6	---	6.5	---	6.5	2.8	---
TOTAL	203.76	210.6	219.5	202.5	187.9	257.0	201.0	182.1	114.5	64.55	141.43	127.61
MEAN	6.57	7.02	7.08	6.53	6.48	8.29	6.70	5.87	3.82	2.08	4.56	4.25
MAX	16	11	15	14	24	19	10	11	7.4	6.5	8.9	22
MIN	.56	4.9	1.9	1.3	2.4	2.3	4.0	1.8	1.5	.26	.93	.45
AC-FT	404	418	435	402	373	510	399	361	227	128	281	253

CAL YR 1975 TOTAL 5378.24 MEAN 14.7 MAX 419 MIN .43 AC-FT 10670
WTR YR 1976 TOTAL 2112.45 MEAN 5.77 MAX 24 MIN .26 AC-FT 4190

11176350 ARROYO DE LA LAGUNA ABOVE ARROYO VALLE, NEAR PLEASANTON, CA

LOCATION.--Lat 37°39'46", long 121°54'19", in Santa Rita Grant, Alameda County, on right bank 250 ft (76 m) upstream from Arroyo Valle, 1.0 mi (1.6 km) downstream from Arroyo Mocho, and 1.8 mi (2.9 km) west of Pleasanton.

DRAINAGE AREA.--224 mi^2 (580 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 300 ft (91 m), from topographic map.

REMARKS.--Records good. Flow partly regulated by South Bay Aqueduct and by waste water from Valley Community Services District (VCSD) sewage disposal plant which enters stream 1.7 mi (2.7 km) upstream from station. Records published for flows of 50 ft^3/s (1.42 m^3/s) or less for water-quality monitoring purposes.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, not determined; minimum daily, 4.0 ft^3/s (0.11 m^3/s) Jan. 17-19, 26, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, not determined; minimum daily, 7.1 ft^3/s (0.20 m^3/s) Jan. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	16	11	16	16	30	12	13	14	9.4	13	8.6
2	9.0	14	12	12	12	45	13	15	12	9.6	10	8.0
3	9.0	13	9.6	11	12	30	11	16	11	9.7	15	11
4	9.0	14	11	13	9.4	12	12	17	9.4	9.2	16	9.7
5	10	13	12	13	16	12	13	7.8	9.1	8.2	9.2	9.3
6	9.0	11	11	13	17	18	13	13	9.0	8.1	8.9	9.7
7	9.0	13	11	11	13	20	15	11	12	7.9	13	12
8	9.5	14	11	13	17	16	27	12	12	8.4	12	14
9	25	16	9.7	17	13	14	13	13	12	7.9	9.7	10
10	30	21	7.7	16	10	9.6	14	15	16	7.6	11	13
11	33	13	12	11	11	14	19	11	14	11	11	13
12	15	10	15	10	10	11	16	11	14	11	11	11
13	12	12	12	10	11	14	16	9.7	12	8.4	14	10
14	12	13	15	8.5	14	18	11	13	12	7.6	13	12
15	12	15	13	9.2	11	14	9.4	11	9.6	9.0	19	9.6
16	9.9	14	13	11	9.8	11	11	10	9.7	9.0	15	9.6
17	8.7	15	11	11	11	10	11	10	7.7	8.1	15	13
18	8.4	12	18	12	10	14	11	9.8	8.4	8.0	18	10
19	13	11	18	13	20	13	12	9.9	7.9	8.0	31	12
20	14	12	12	10	13	12	13	9.2	9.3	8.0	14	8.7
21	13	11	13	11	14	12	11	9.6	9.3	7.3	14	7.6
22	14	13	16	14	13	15	11	12	9.9	9.5	17	8.2
23	14	12	12	12	12	12	10	13	9.3	9.5	15	9.8
24	9.0	12	12	15	17	11	13	12	9.9	9.9	11	12
25	13	12	17	16	15	10	13	11	9.5	15	10	12
26	26	12	13	12	12	16	13	14	8.0	13	12	11
27	15	12	16	10	12	15	14	15	12	12	12	13
28	13	11	14	9.2	13	17	13	13	12	13	11	35
29	12	9.7	14	7.1	50	14	14	12	10	11	11	36
30	31	11	12	8.7	---	12	14	11	10	10	12	15
31	18	---	12	16	---	11	---	12	---	12	12	---
TOTAL	444.5	387.7	396.0	371.7	414.2	482.6	398.4	372.0	321.0	296.3	415.8	373.8
MEAN	14.3	12.9	12.8	12.0	14.3	15.6	13.3	12.0	10.7	9.56	13.4	12.5
MAX	33	21	18	17	50	45	27	17	16	15	31	36
MIN	8.4	9.7	7.7	7.1	9.4	9.6	9.4	7.8	7.7	7.3	8.9	7.6
AC-FT	882	769	785	737	822	957	790	738	637	588	825	741

WTR YR 1976 TOTAL 4674.0 MEAN 12.8 MAX 50 MIN 7.1 AC-FT 9270

11176350 ARROYO DE LA LAGUNA ABOVE ARROYO VALLE, NEAR PLEASANTON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.
CHEMICAL ANALYSES: Water years 1975 to current year.
SPECIFIC CONDUCTANCE: Water years 1975 to current year.
WATER TEMPERATURES: Water years 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 1974 to current year.
WATER TEMPERATURES: December 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since December 1974.

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

COOPERATION.--Chemical-quality samples were collected by Alameda County Water District.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,800 micromhos Jan. 21, 1975; minimum, 233 micromhos Mar. 13, 1975.
WATER TEMPERATURES: Maximum, 33.5°C June 26, 1976; minimum, 4.5°C Jan. 2, 1975.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,590 micromhos Oct. 12; minimum, 536 micromhos Feb. 8.
WATER TEMPERATURES: Maximum, 33.5°C June 26; minimum, 6.0°C Jan. 1.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
NOV									
05...	1055	14	1030	--	10	200	37	26	160
JAN									
21...	1100	12	1060	--	15	190	40	23	160
MAY									
05...	1055	10	1170	--	9	220	42	29	160
JUL									
21...	1100	6.1	1250	7.5	10	240	46	31	190

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
NOV								
05...	617	.84	23.3	13	.18	13	.65	.00
JAN								
21...	620	.84	20.1	6.1	.17	6.3	5.6	.10
MAY								
05...	722	.98	19.5	21	.26	21	.79	.30
JUL								
21...	776	1.06	12.8	19	.04	19	.11	.00

11176350 ARROYO DE LA LAGUNA ABOVE ARROYO VALLE, NEAR PLEASANTON, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1300	1200	1240	1080	961	1020	---	---	---	1000	824	888
2	1290	1130	1210	1160	987	1080	1010	931	969	---	---	---
3	1230	1100	1180	1140	1040	1070	1060	948	1010	---	---	---
4	1170	1070	1130	1190	1050	1100	1040	963	1010	---	---	---
5	1130	1040	1100	1160	990	1070	1100	962	1010	---	---	---
6	1120	1070	1100	1160	926	1050	1090	955	1020	---	---	---
7	1170	1080	1120	1110	1060	1080	1030	935	978	---	---	---
8	1200	1130	1160	1100	1030	1050	1030	954	984	---	---	---
9	1230	708	1120	1060	988	1010	1070	963	1010	---	---	---
10	1250	709	1000	996	826	903	1200	942	1040	878	764	816
11	955	543	815	1080	985	1020	1060	970	999	920	862	896
12	1590	903	1300	1100	968	1040	1020	832	939	950	874	898
13	1340	1160	1230	1100	956	1020	978	888	979	960	902	923
14	1220	1130	1170	1070	984	1010	954	878	916	1010	956	966
15	1210	1120	1160	1010	898	963	1030	898	928	1000	904	956
16	1210	1130	1160	1000	922	956	944	904	917	1050	964	993
17	1270	1200	1220	1020	908	950	1050	910	959	1070	972	1010
18	1290	1150	1250	1040	990	1020	954	824	857	1040	978	1000
19	1150	1070	1110	1040	968	1010	912	812	846	1090	960	1010
20	1140	1070	1100	1040	948	988	946	884	906	1110	1020	1060
21	1150	1090	1120	---	---	---	928	840	898	1100	1000	1050
22	1130	1090	1120	---	---	---	990	744	857	1080	854	956
23	1120	1070	1100	---	---	---	950	900	922	1050	978	1020
24	1110	1030	1090	---	---	---	974	912	943	1010	858	934
25	1120	1070	1100	---	---	---	956	824	876	984	874	909
26	1130	754	911	---	---	---	956	886	910	1040	956	997
27	1030	908	976	---	---	---	956	840	892	1050	970	1010
28	1070	1030	1040	---	---	---	932	874	904	1090	1020	1040
29	1090	978	1040	---	---	---	954	886	913	1110	1020	1070
30	910	554	753	---	---	---	1000	904	942	1090	962	1040
31	1010	879	956	---	---	---	1020	918	952	1070	878	931
MONTH	1590	543	1100	---	---	---	1200	744	943	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1010	878	923	---	---	---	1140	1040	1090	1150	1090	1120
2	1100	978	1010	---	---	---	1080	1010	1060	1120	1070	1100
3	1130	1030	1070	---	---	---	1100	1000	1050	1130	1050	1080
4	1110	980	1060	---	---	---	1080	970	1030	1140	938	1040
5	1060	606	863	---	---	---	1060	988	1010	1210	1020	1120
6	958	778	892	---	---	---	1360	1040	1130	1130	894	987
7	1050	960	1010	---	---	---	1170	750	997	1110	830	1010
8	1110	536	868	---	---	---	928	638	813	1150	846	1010
9	1020	770	909	1130	974	1070	1070	887	983	1140	918	1000
10	1040	892	975	1230	1000	1120	1090	932	1030	1130	1040	1080
11	1050	990	1020	1210	934	1030	965	817	921	1100	1060	1080
12	1030	1000	1020	1130	994	1070	1080	779	920	1100	1050	1070
13	1080	926	984	1070	876	975	1110	940	1020	1120	1050	1090
14	1100	896	954	978	894	926	1150	1080	1130	1150	900	1080
15	1010	896	935	1060	982	1030	1160	1080	1120	1110	910	1040
16	1140	948	999	1140	1060	1080	1140	1070	1110	1120	1070	1090
17	1130	942	1010	1140	1030	1090	1150	1080	1120	1130	1060	1090
18	1030	982	1000	1140	911	1050	1150	1060	1100	1090	1040	1070
19	1020	732	872	1100	979	1050	1160	1070	1120	1110	1070	1090
20	1100	998	1050	1130	1050	1090	1180	1090	1140	1110	1030	1070
21	1120	1040	1100	1100	1040	1070	1200	1140	1170	1100	1040	1050
22	1100	1030	1070	1050	935	984	1220	1130	1180	1080	1040	1070
23	1100	1030	1060	1110	1000	1070	1180	1110	1150	1110	1050	1090
24	1100	934	990	1110	1030	1070	1150	1090	1120	1120	1040	1090
25	---	---	---	1130	1060	1090	1150	1060	1100	1130	1090	1110
26	---	---	---	1070	854	946	1140	1060	1110	1120	994	1070
27	---	---	---	1100	918	986	1150	1080	1120	1130	1010	1050
28	---	---	---	960	824	909	1120	1060	1090	1160	1110	1140
29	---	---	---	1090	936	1020	1120	1040	1080	1170	1120	1160
30	---	---	---	1090	984	1040	1140	1030	1090	1200	1170	1190
31	---	---	---	1130	984	1080	---	---	---	1190	1110	1150
MONTH	1140	536	985	---	---	---	1360	638	1070	1210	830	1080

11176350 ARROYO DE LA LAGUNA ABOVE ARROYO VALLE, NEAR PLEASANTON, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1160	1110	1130	---	---	---	1120	958	1010	1270	1140	1200
2	1200	1140	1160	---	---	---	1150	1110	1130	1250	1150	1200
3	1220	1140	1170	---	---	---	1160	1000	1090	1200	1140	1180
4	1240	1030	1180	---	---	---	1040	906	998	1200	1120	1160
5	1300	1180	1230	---	---	---	1170	1060	1130	1190	1110	1150
6	1280	1210	1240	---	---	---	1180	1010	1120	1180	1070	1130
7	1210	1120	1170	---	---	---	1140	902	1050	1150	1050	1110
8	1210	1150	1180	---	---	---	1090	922	1030	1190	1070	1130
9	1220	1120	1180	---	---	---	1170	1000	1090	1200	1100	1150
10	1190	998	1100	---	---	---	1230	1050	1130	1210	1090	1160
11	1180	1090	1140	---	---	---	1170	1080	1130	1220	1110	1160
12	1220	1100	1170	---	---	---	1190	1090	1150	1160	1080	1110
13	1200	1100	1150	---	---	---	1180	974	1110	1170	1100	1120
14	1200	1100	1150	---	---	---	1170	1080	1130	1180	1110	1150
15	1250	1140	1210	---	---	---	1140	960	1050	1200	1140	1170
16	1270	1180	1230	---	---	---	1090	944	1040	1170	1130	1150
17	1290	1250	1270	---	---	---	1130	1020	1070	1140	1100	1120
18	1260	1150	1210	---	---	---	1130	712	1010	1190	1120	1140
19	1280	1170	1230	---	---	---	1010	730	857	1200	1130	1160
20	1230	1050	1170	---	---	---	1090	974	1030	1210	1150	1170
21	1220	1160	1190	---	---	---	1140	1020	1100	1210	1120	1180
22	1240	1170	1210	---	---	---	1010	920	966	1200	1120	1150
23	1260	1150	1210	1250	1180	1220	1070	954	983	1200	1120	1160
24	1220	1130	1190	1280	1150	1230	1100	1060	1080	1200	1110	1160
25	1270	1160	1210	1150	976	1050	1170	1080	1110	1180	1150	1170
26	1250	1170	1220	1100	970	1040	1190	1100	1150	1180	1100	1140
27	---	---	---	1180	1070	1120	1190	1120	1160	1180	1100	1140
28	---	---	---	1170	964	1090	1210	1140	1170	1180	598	939
29	---	---	---	1170	1050	1140	1200	1110	1150	1280	658	823
30	---	---	---	1150	1100	1130	1190	1090	1140	1310	1190	1230
31	---	---	---	1140	938	1050	1240	1120	1160	---	---	---
MONTH	1300	998	1190	---	---	---	1240	712	1080	1310	598	1140

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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	26.5	-- 17.5		18.5	-- 12.5		-- 17.0	--		11.0	-- 6.0		16.0	-- 10.0		--	--	--
2	25.0	-- 17.0		20.0	-- 13.5		18.0	-- 11.0		--	-- --		17.5	-- 12.0		--	--	--
3	24.0	-- 17.0		20.5	-- 13.5		17.0	-- 10.0		--	-- --		17.0	-- 10.0		--	--	--
4	25.5	-- 16.5		20.0	-- 14.5		15.5	-- 11.5		--	-- --		16.5	-- 11.0		--	--	--
5	25.0	-- 17.5		18.5	-- 15.5		16.5	-- 13.5		--	-- --		11.5	-- 6.5		--	--	--
6	22.5	-- 17.0		19.0	-- 13.5		16.5	-- 11.5		--	-- --		11.5	-- 7.5		--	--	--
7	21.5	-- 16.0		19.5	-- 14.0		17.5	-- 11.0		--	-- --		14.0	-- 8.0		--	--	--
8	22.0	-- 14.5		18.5	-- 14.0		16.5	-- 10.5		--	-- --		13.5	-- 11.0		--	15.5	--
9	19.5	-- 15.0		16.5	-- 11.5		17.0	-- 12.5		--	-- --		17.0	-- 11.0		20.0	--	11.0
10	19.5	-- 15.5		17.0	-- 12.5		15.5	-- 12.5		12.5	-- 9.5		17.5	-- 10.5		20.5	--	12.5
11	19.5	-- 14.5		17.5	-- 11.5		15.5	-- 12.5		14.5	-- 10.0		17.5	-- 9.5		19.5	--	13.0
12	21.0	-- 15.5		17.0	-- 11.5		14.5	-- 11.5		15.5	-- 10.0		18.5	-- 9.5		21.5	--	10.5
13	23.0	-- 15.5		18.0	-- 11.5		14.0	-- 8.5		15.0	-- 10.0		16.5	-- 11.5		19.5	--	10.5
14	23.0	-- 15.0		17.0	-- 13.5		13.0	-- 8.5		17.0	-- 9.5		15.0	-- 12.0		20.0	--	11.5
15	23.0	-- 15.0		19.0	-- 13.5		14.0	-- 7.5		16.0	-- 10.5		17.5	-- 12.0		22.5	--	12.0
16	25.0	-- 15.0		16.5	-- 13.0		14.5	-- 8.0		15.0	-- 8.5		15.5	-- 12.0		24.0	--	14.0
17	24.0	-- 16.5		14.5	-- 11.0		13.5	-- 7.5		16.0	-- 10.0		20.0	-- 14.0		24.0	--	15.5
18	24.5	-- 17.5		14.5	-- 10.5		12.5	-- 7.0		16.0	-- 9.5		20.0	-- 14.0		19.5	--	13.5
19	23.0	-- 15.5		15.0	-- 10.5		12.0	-- 6.5		16.5	-- 10.0		16.0	-- 11.5		20.5	--	11.5
20	23.5	-- 16.0		17.0	-- 12.0		14.0	-- 8.0		16.0	-- 9.0		17.5	-- 10.0		22.0	--	12.0
21	23.0	-- 16.5		--	-- --		13.5	-- 8.5		16.0	-- 9.0		18.5	-- 11.0		24.0	--	11.5
22	20.5	-- 15.5		--	-- --		15.5	-- 11.0		13.0	-- 6.5		16.0	-- 11.0		22.5	--	13.0
23	18.5	-- 12.5		--	-- --		15.0	-- 10.5		14.5	-- 8.5		15.5	-- 11.5		23.0	--	13.0
24	19.5	-- 11.5		--	-- --		15.5	-- 10.0		14.5	-- 10.0		17.0	-- 11.0		22.0	--	12.5
25	18.0	-- 12.5		--	-- --		13.0	-- 9.5		14.0	-- 8.0		--	-- --		22.0	--	11.5
26	17.0	-- 15.5		--	-- --		14.0	-- 10.0		15.5	-- 8.0		--	-- --		19.0	--	10.0
27	19.5	-- 13.5		--	-- --		14.5	-- 11.5		15.5	-- 8.0		--	-- --		18.0	--	10.5
28	20.5	-- 12.5		--	-- --		16.0	-- 9.5		17.5	-- 8.5		--	-- --		20.5	--	12.0
29	18.5	-- 12.0		--	-- --		16.5	-- 11.5		17.5	-- 10.5		--	-- --		23.5	--	12.5
30	18.5	-- 14.5		--	-- --		17.0	-- 10.0		16.0	-- 10.5		--	-- --		24.5	--	13.5
31	18.5	-- 13.0		--	-- --		12.5	-- 7.0		15.0	-- 9.0		--	-- --		21.5	--	13.0
MONTH	26.5	-- 11.5		--	-- --		18.0	-- 6.5		--	-- --		20.0	-- 6.5		--	--	--

11176350 ARROYO DE LA LAGUNA ABOVE ARROYO VALLE, NEAR PLEASANTON, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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	22.5	--	11.0	26.0	--	15.5	27.0	--	16.0	--	--	--	28.5	--	19.0	32.5	--	20.0
2	22.5	--	11.5	25.5	--	15.0	27.0	--	16.5	--	--	--	29.5	--	20.0	31.5	--	18.5
3	17.5	--	12.5	26.0	--	14.5	27.0	--	14.5	--	--	--	23.5	--	20.0	30.5	--	20.0
4	19.5	--	13.0	24.0	--	14.0	27.5	--	14.0	--	--	--	27.5	--	19.0	28.0	--	20.0
5	16.0	--	13.0	26.0	--	12.5	26.0	--	14.5	--	--	--	29.0	--	20.0	29.5	--	20.5
6	21.0	--	12.5	23.5	--	15.0	27.0	--	15.0	--	--	--	27.0	--	19.5	29.0	--	19.5
7	20.0	--	13.0	27.0	--	14.5	24.0	--	15.0	--	--	--	27.5	--	20.0	29.5	--	20.0
8	19.5	--	12.5	27.0	--	16.0	26.0	--	14.5	--	--	--	30.0	--	19.0	28.5	--	19.5
9	23.0	--	11.0	29.0	--	16.5	24.0	--	16.0	--	--	--	31.0	--	19.0	29.0	--	20.0
10	16.5	--	13.0	25.5	--	16.0	24.0	--	16.0	--	--	--	31.0	--	20.0	24.0	--	21.5
11	18.5	--	11.5	29.5	--	15.5	23.5	--	16.0	--	--	--	29.5	--	20.0	24.5	--	20.0
12	21.0	--	13.0	31.5	--	17.0	26.5	--	15.5	--	--	--	30.0	--	19.5	26.5	--	19.0
13	22.0	--	13.0	31.0	--	18.0	28.0	--	16.5	--	--	--	24.0	--	19.5	27.5	--	18.5
14	24.5	--	13.0	28.0	--	17.5	29.0	--	17.0	--	31.5	--	22.5	--	19.5	27.0	--	18.5
15	21.0	--	12.0	29.5	--	17.0	30.0	--	17.5	--	--	--	24.0	--	18.5	26.5	--	19.0
16	20.5	--	11.0	27.5	--	16.5	30.5	--	18.5	--	--	--	26.0	--	18.0	26.5	--	18.0
17	23.5	--	12.0	27.0	--	15.5	31.0	--	18.0	--	--	--	22.5	--	18.5	26.5	--	18.0
18	25.0	--	14.5	26.5	--	15.5	30.0	--	18.0	--	--	--	22.0	--	19.5	27.0	--	17.5
19	26.5	--	13.0	27.0	--	15.0	30.5	--	17.5	--	--	--	24.0	--	19.5	25.5	--	18.5
20	27.0	--	14.5	28.0	--	15.0	28.0	--	17.5	--	21.5	--	28.5	--	20.0	28.0	--	19.5
21	26.0	--	15.0	28.5	--	15.5	27.0	--	17.0	--	23.0	--	29.0	--	21.0	28.5	--	18.5
22	25.0	--	14.5	26.5	--	15.5	29.0	--	17.0	--	--	--	27.0	--	21.0	28.0	--	18.0
23	27.0	--	15.0	26.5	--	15.5	29.0	--	18.0	32.0	--	21.0	30.0	--	20.0	27.5	--	17.5
24	27.0	--	15.5	26.0	--	16.5	32.0	--	19.0	33.0	--	19.5	30.0	--	20.5	26.5	--	17.5
25	24.5	--	14.0	29.0	--	17.5	32.0	--	20.0	31.0	--	20.0	31.5	--	21.0	24.0	--	19.0
26	23.0	--	12.5	28.5	--	17.5	33.5	--	19.5	32.0	--	20.5	29.0	--	19.0	25.5	--	19.0
27	24.0	--	13.0	27.5	--	17.0	--	--	--	32.0	--	21.5	29.5	--	18.5	23.5	--	20.0
28	24.5	--	13.5	24.5	--	15.5	--	--	--	29.5	--	21.0	31.0	--	19.5	21.0	--	19.0
29	25.0	--	13.0	24.5	--	15.0	--	--	--	31.0	--	20.0	31.0	--	20.5	21.5	--	18.5
30	27.0	--	14.0	26.0	--	16.5	--	--	--	29.0	--	19.5	32.0	--	21.0	25.0	--	20.0
31	--	--	--	27.5	--	17.5	--	--	--	24.5	--	19.5	31.0	--	21.0	--	--	--
MONTH	27.0	--	11.0	31.5	--	12.5	33.5	--	14.0	--	--	--	32.0	--	18.0	32.5	--	17.5

11176400 ARROYO VALLE BELOW LANG CANYON, NEAR LIVERMORE, CA

LOCATION.--Lat 37°33'41", long 121°40'58", in NE¼NE¼ sec.30, T.4 S., R.3 E., Alameda County, on left bank 100 ft (30 m) upstream from small left-bank tributary, 1.2 mi (1.9 km) downstream from Lang Canyon, and 9.5 mi (15.3 km) southeast of Livermore.

DRAINAGE AREA.--130 mi^2 (337 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to current year. Prior to October 1974, published as "above Lang Canyon, near Livermore".

GAGE.--Water-stage recorder. Concrete control since June 19, 1975. Altitude of gage is 750 ft (229 m), from topographic map. Prior to June 19, 1975, at site 1.4 mi (2.3 km) upstream at different datum.

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

AVERAGE DISCHARGE.--13 years, 28.8 ft^3/s (0.816 m^3/s), 20,870 acre-ft/yr (25.7 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,340 ft^3/s (151 m^3/s) Jan. 25, 1969, gage height, 8.90 ft (2.713 m) site and datum then in use; no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8.2 ft^3/s (0.23 m^3/s) Mar. 2, gage height, 1.07 ft (0.326 m), no peak above base of 500 ft^3/s (14 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.49	.93	1.3	.93	5.6	.83	.42				
2	0	.22	.93	1.5	.93	6.0	.81	.41				
3	0	.22	.94	.99	.93	6.6	.90	.38				
4	0	.22	1.2	.99	1.0	5.4	.87	.36				
5	0	.22	1.2	1.2	1.2	4.1	.93	.34				
6	0	.22	1.5	1.2	1.2	3.5	.98	.34				
7	0	.27	1.6	1.2	1.2	3.1	.94	.30				
8	0	.34	1.6	1.3	1.6	2.7	1.4	.23				
9	0	.39	1.6	1.5	2.1	2.7	1.6	.21				
10	0	.79	1.2	1.7	2.5	2.2	1.7	.20				
11	0	.70	1.3	1.6	1.9	2.1	1.6	.15				
12	0	.60	2.0	1.6	1.4	1.7	1.4	.07				
13	0	.50	2.1	1.6	1.3	1.6	1.1	.01				
14	0	.49	2.1	1.6	1.6	1.6	.69	0				
15	0	.49	2.1	1.4	1.6	1.2	.54	0				
16	0	.53	2.1	1.3	1.6	1.2	.68	0				
17	0	.44	2.1	1.2	1.5	1.2	.62	0				
18	.01	.54	2.1	1.2	.96	1.2	.70	0				
19	.01	.68	2.1	1.2	1.6	1.2	.61	0				
20	.01	.68	1.9	1.2	1.6	1.5	.55	0				
21	.02	.64	1.8	1.2	1.4	1.3	.42	0				
22	.02	.68	1.6	1.2	1.1	1.2	.44	0				
23	.02	.91	1.6	.93	.93	1.2	.44	0				
24	.02	.93	1.6	.93	.93	1.1	.35	0				
25	.02	.76	1.6	.93	.93	.98	.40	0				
26	.08	.90	1.6	.93	.93	.99	.40	0				
27	.22	.93	1.5	.93	.93	.93	.37	0				
28	.22	.93	1.2	.93	.85	.93	.35	0				
29	.22	.86	1.2	.93	1.8	.93	.38	0				
30	.93	.93	1.2	.93	---	.89	.42	0				
31	.93	---	1.2	.93	---	.87	---	0	---			---
TOTAL	2.73	17.50	48.70	37.55	38.45	67.72	23.42	3.42	0	0	0	0
MEAN	.088	.58	1.57	1.21	1.33	2.18	.78	.11	0	0	0	0
MAX	.93	.93	2.1	1.7	2.5	6.6	1.7	.42	0	0	0	0
MIN	0	.22	.93	.93	.85	.87	.35	0	0	0	0	0
AC-FT	5.4	35	97	74	76	134	46	6.8	0	0	0	0

CAL YR 1975 TOTAL 14196.51 MEAN 38.9 MAX 914 MIN 0 AC-FT 28160
WTR YR 1976 TOTAL 239.49 MEAN .65 MAX 6.6 MIN 0 AC-FT 475

11176400 ARROYO VALLE BELOW LANG CANYON, NEAR LIVERMORE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to current year.
WATER TEMPERATURES: Water years 1974 to current year.
SEDIMENT RECORDS: Water years 1974 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1973 to current year.
SEDIMENT RECORDS: October 1973 to current year.

REMARKS.--Sediment table omitted for period of no flow during July 1 to Sept. 30.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,050 mg/L Apr. 1, 1974; minimum daily mean, no flow for many days each year.
SEDIMENT DISCHARGE: Maximum daily, 2,500 tons (2,270 tonnes) Mar. 8, 1975; minimum daily, 0 tons (0 tonnes) on many days each year.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 25 mg/L Apr. 9; minimum daily mean, no flow for many days.
SEDIMENT DISCHARGE: Maximum daily, 0.34 ton (0.31 tonne) Mar. 2; minimum daily, 0 tons (0 tonnes) on many days.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	---	---	---	---	---	---				
2		---	---	4.5	---	8.5	15.0	---				
3		---	10.0	---	---	10.0	---	---				
4		---	---	---	10.0	7.5	---	---				
5		---	---	---	5.5	---	---	23.0				
6		---	10.5	---	7.0	10.0	12.5	---				
7		14.0	---	7.0	---	---	---	---				
8		---	---	6.5	---	---	---	---				
9		---	10.0	---	---	---	16.0	---				
10		---	---	9.0	---	---	---	---				
11		---	9.0	---	12.0	13.0	---	---				
12		---	---	---	---	---	---	---				
13		---	7.0	---	12.0	---	17.0	---				
14		---	---	---	---	---	---	---				
15		---	---	---	---	---	---	---				
16		---	8.0	---	---	---	---	---				
17		---	---	10.0	---	---	---	---				
18		---	---	---	12.0	14.0	---	---				
19		---	---	---	11.0	---	---	---				
20		---	8.0	10.5	11.0	15.0	---	---				
21		---	---	---	---	---	---	---				
22		---	---	---	---	---	---	---				
23		---	---	10.0	---	---	20.0	---				
24		---	9.0	9.0	12.0	---	20.0	---				
25		---	---	---	---	14.0	---	---				
26		---	---	---	12.5	---	---	---				
27		---	---	---	14.5	---	---	---				
28		---	---	10.0	---	---	18.0	---				
29		---	10.0	---	---	---	---	---				
30		---	---	10.0	---	---	---	---				
31		---	5.5	---	---	14.0	---	---				
MONTH		---	---	---	---	---	---	---				

11176400 ARROYO VALLE BELOW LANG CANYON, NEAR LIVERMORE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	.49	12	.02	.93	15	.04
2	0	0	0	.22	10	.01	.93	15	.04
3	0	0	0	.22	10	.01	.94	15	.04
4	0	0	0	.22	10	.01	1.2	17	.06
5	0	0	0	.22	10	.01	1.2	17	.06
6	0	0	0	.22	10	.01	1.5	20	.08
7	0	0	0	.27	10	.01	1.6	21	.09
8	0	0	0	.34	11	.01	1.6	22	.10
9	0	0	0	.39	12	.01	1.6	23	.10
10	0	0	0	.79	15	.03	1.2	16	.05
11	0	0	0	.70	14	.03	1.3	10	.04
12	0	0	0	.60	14	.02	2.0	9	.05
13	0	0	0	.50	12	.02	2.1	11	.06
14	0	0	0	.49	12	.02	2.1	10	.06
15	0	0	0	.49	12	.02	2.1	10	.06
16	0	0	0	.53	12	.02	2.1	10	.06
17	0	0	0	.44	12	.01	2.1	10	.06
18	.01	3	0	.54	12	.02	2.1	10	.06
19	.01	3	0	.68	13	.02	2.1	9	.05
20	.01	3	0	.68	13	.02	1.9	9	.05
21	.02	5	0	.64	13	.02	1.8	9	.04
22	.02	5	0	.68	13	.02	1.6	8	.03
23	.02	5	0	.91	15	.04	1.6	7	.03
24	.02	5	0	.93	15	.04	1.6	6	.03
25	.02	5	0	.76	15	.03	1.6	7	.03
26	.08	8	0	.90	15	.04	1.6	8	.03
27	.22	10	.01	.93	15	.04	1.5	9	.04
28	.22	10	.01	.93	15	.04	1.2	10	.03
29	.22	10	.01	.86	15	.03	1.2	12	.04
30	.93	15	.04	.93	15	.04	1.2	10	.03
31	.93	15	.04	---	---	---	1.2	7	.02
MONTH	2.73	---	.11	17.50	---	.67	48.70	---	1.56

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.3	6	.02	.93	8	.02	5.6	20	.30
2	1.5	4	.02	.93	8	.02	6.0	21	.34
3	.99	3	.01	.93	9	.02	6.6	13	.23
4	.99	4	.01	1.0	12	.03	5.4	8	.12
5	1.2	5	.02	1.2	13	.04	4.1	8	.09
6	1.2	5	.02	1.2	8	.03	3.5	8	.08
7	1.2	5	.02	1.2	6	.02	3.1	8	.07
8	1.3	5	.02	1.6	9	.04	2.7	8	.06
9	1.5	5	.02	2.1	12	.07	2.7	8	.06
10	1.7	9	.04	2.5	13	.09	2.2	8	.05
11	1.6	5	.02	1.9	10	.05	2.1	7	.04
12	1.6	5	.02	1.4	12	.05	1.7	7	.03
13	1.6	5	.02	1.3	14	.05	1.6	7	.03
14	1.6	4	.02	1.6	12	.05	1.6	7	.03
15	1.4	4	.02	1.6	10	.04	1.2	7	.02
16	1.3	3	.01	1.6	8	.03	1.2	6	.02
17	1.2	2	.01	1.5	6	.02	1.2	6	.02
18	1.2	4	.01	.96	4	.01	1.2	6	.02
19	1.2	4	.01	1.6	9	.04	1.2	6	.02
20	1.2	6	.02	1.6	5	.02	1.5	7	.03
21	1.2	5	.02	1.4	5	.02	1.3	7	.02
22	1.2	6	.02	1.1	4	.01	1.2	7	.02
23	.93	4	.01	.93	4	.01	1.2	6	.02
24	.93	7	.02	.93	4	.01	1.1	6	.02
25	.93	6	.02	.93	4	.01	.98	6	.02
26	.93	5	.01	.93	4	.01	.99	6	.02
27	.93	4	.01	.93	4	.01	.93	6	.02
28	.93	4	.01	.85	4	.01	.93	7	.02
29	.93	6	.02	1.8	14	.07	.93	7	.02
30	.93	8	.02	---	---	---	.89	8	.02
31	.93	8	.02	---	---	---	.87	8	.02
MONTH	37.55	---	.54	38.45	---	.90	67.72	---	1.88

11176400 ARROYO VALLE BELOW LANG CANYON, NEAR LIVERMORE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	.83	9	.02	.42	9	.01			
2	.81	10	.02	.41	10	.01			
3	.90	10	.02	.38	11	.01			
4	.87	10	.02	.36	12	.01			
5	.93	10	.03	.34	12	.01			
6	.98	10	.03	.34	12	.01			
7	.94	10	.03	.30	10	.01			
8	1.4	15	.06	.23	8	0			
9	1.6	25	.11	.21	6	0			
10	1.7	20	.09	.20	4	0			
11	1.6	15	.06	.15	3	0			
12	1.4	11	.04	.07	3	0			
13	1.1	11	.03	.01	2	0			
14	.69	11	.02	0	0	0			
15	.54	11	.02	0	0	0			
16	.68	11	.02	0	0	0			
17	.62	10	.02	0	0	0			
18	.70	10	.02	0	0	0			
19	.61	10	.02	0	0	0			
20	.55	10	.01	0	0	0			
21	.42	10	.01	0	0	0			
22	.44	10	.01	0	0	0			
23	.44	10	.01	0	0	0			
24	.35	11	.01	0	0	0			
25	.40	9	.01	0	0	0			
26	.40	10	.01	0	0	0			
27	.37	8	.01	0	0	0			
28	.35	6	.01	0	0	0			
29	.38	7	.01	0	0	0			
30	.42	8	.01	0	0	0			
31	---	---	---	0	0	0	---	---	---
MONTH	23.42	---	.79	3.42	---	.07	0	---	0
YEAR	239.49		6.52						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM
MAR 02...	1355	8.5	7.0	21	.40	98	100

11176500 ARROYO VALLE NEAR LIVERMORE, CA

LOCATION.--Lat 37°37'24", long 121°45'28", in Valle de San Jose Grant, Alameda County, on right bank 900 ft (274 m) downstream from highway bridge, 1.1 mi (1.8 km) upstream from Dry Creek, 1.3 mi (2.1 km) downstream from Del Valle Dam, 4.1 mi (6.6 km) south of Livermore, and 6.9 mi (11.1 km) southeast of Pleasanton.

DRAINAGE AREA.--147 mi^2 (381 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1912 to September 1930, October 1957 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Published as Arroyo del Valle near Livermore, 1912-29.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 510.44 ft (155.582 m) above mean sea level. Prior to November 1914, at site 900 ft (274 m) upstream at different datum. Nov. 1, 1914, to Sept. 30, 1930, at site 300 ft (91 m) upstream at different datum.

REMARKS.--Records good. Flow regulated by Del Valle Reservoir 1.3 mi (2.1 km) upstream beginning in September 1968, capacity, 77,100 acre-ft (95.1 hm^3). Water from Sacramento-San Joaquin Delta imported through South Bay Aqueduct can be pumped into Del Valle Reservoir for storage and later released into the channel for downstream percolation or returned to the South Bay Aqueduct.

AVERAGE DISCHARGE.--29 years (1912-30, 1957-68), 29.6 ft^3/s (0.838 m^3/s), 21,450 acre-ft/yr (26.4 hm^3/yr).

EXTREMES FOR PERIOD OF REOCRD.--Maximum discharge, 12,200 ft^3/s (346 m^3/s) Apr. 2, 1958, gage height, 10.91 ft (3.325 m); no flow at times. Maximum discharge since construction of Del Valle Dam in 1968, 1,030 ft^3/s (29.2 m^3/s) Feb. 11, 1973, gage height, 5.39 ft (1.643 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 23, 1955, reached a stage of 13.93 ft (4.246 m) from floodmarks, discharge, 18,200 ft^3/s (515 m^3/s), on basis of contracted-opening and slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33 ft^3/s (0.93 m^3/s) Mar. 17, gage height, 2.75 ft (0.838 m); minimum daily, 0.19 ft^3/s (0.005 m^3/s) Dec. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	.45	.50	.49	.35	.55	4.5	6.1	5.6	6.3	4.6	5.7
2	19	.20	.55	.59	.47	.70	5.8	6.3	5.2	5.4	5.2	4.2
3	19	.30	.45	.54	.39	.58	4.6	5.7	5.7	6.6	4.9	5.2
4	19	.33	.40	.60	.39	.55	5.3	5.7	5.2	4.9	5.5	4.2
5	18	.36	.40	.58	.40	.58	4.7	5.3	6.4	5.8	3.4	5.8
6	18	.45	.48	.54	.44	.53	4.9	6.1	3.9	4.4	6.2	3.7
7	18	.40	.33	.54	.43	.40	4.8	5.6	5.5	5.9	.59	5.0
8	13	.38	.24	.44	.46	.42	5.6	5.4	5.4	4.8	.46	3.9
9	.95	.37	.22	.50	.47	.45	4.4	5.5	5.6	5.3	4.1	5.2
10	1.1	.91	.38	4.1	.48	.43	5.7	5.5	5.1	5.0	5.0	3.9
11	.93	.63	.33	8.2	.47	.44	5.5	5.0	5.2	5.6	4.1	4.0
12	.57	.51	.54	8.2	.52	.47	6.4	5.4	5.2	5.4	5.0	5.1
13	.50	.59	.28	8.2	.56	.43	3.5	5.0	5.2	5.9	3.8	5.4
14	.50	.66	.22	8.2	.54	.41	5.3	6.7	4.7	5.2	4.4	4.9
15	.42	.51	.19	8.2	.56	.34	5.4	5.5	5.7	6.7	4.6	5.4
16	.41	.57	.37	8.2	.52	.35	7.3	5.3	5.7	6.0	5.1	4.5
17	.46	.65	.44	4.6	.51	2.0	6.2	5.5	6.4	6.0	4.5	5.3
18	.54	.60	.50	.52	.57	.43	6.5	5.6	4.7	5.8	5.1	5.2
19	.30	.55	.54	.44	.62	.38	5.3	5.4	5.3	5.4	4.3	5.0
20	.31	.55	.43	.40	.40	.42	3.7	6.2	5.4	4.9	5.0	4.4
21	.39	.60	.48	.38	.37	.46	3.7	5.3	5.5	5.7	4.5	5.8
22	.48	.70	.48	.35	.35	.45	6.4	6.2	5.0	4.5	5.1	5.1
23	.21	.80	.48	.35	.38	.42	4.7	4.4	5.7	5.6	4.5	5.6
24	.23	.80	.49	.35	.43	.41	6.7	6.4	4.7	5.3	4.5	3.3
25	.24	.85	.44	.37	.35	.44	5.2	4.9	6.0	4.9	4.5	6.0
26	.47	.85	.43	.35	.46	.47	6.2	6.2	5.8	4.5	4.9	5.0
27	.42	.80	.37	.38	.49	.49	5.6	5.6	5.1	5.2	4.4	5.7
28	.37	.80	.41	.41	.51	.40	5.7	6.2	4.7	4.3	5.4	5.4
29	.35	.70	.46	.40	.56	.38	5.3	6.0	6.0	4.7	4.2	5.6
30	.54	.60	.55	.39	---	.42	5.9	5.7	5.2	4.5	5.4	5.2
31	.55	---	.40	.35	---	.48	---	5.3	---	5.2	4.0	---
TOTAL	154.24	17.47	12.78	68.16	13.45	15.68	160.8	175.0	160.8	165.7	137.25	148.7
MEAN	4.98	.58	.41	2.20	.46	.51	5.36	5.65	5.36	5.35	4.43	4.96
MAX	19	.91	.55	8.2	.62	2.0	7.3	6.7	6.4	6.7	6.2	6.0
MIN	.21	.20	.19	.35	.35	.34	3.5	4.4	3.9	4.3	.46	3.3
AC-FT	306	35	25	135	27	31	319	347	319	329	272	295

CAL YR 1975	TOTAL	7260.06	MEAN	19.9	MAX	371	MIN	.19	AC-FT	14400
WTR YR 1976	TOTAL	1230.03	MEAN	3.36	MAX	19	MIN	.19	AC-FT	2440

11176500 ARROYO VALLE NEAR LIVERMORE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953, 1959 to current year.
CHEMICAL ANALYSES: Water years 1953, 1959-66.
WATER TEMPERATURES: Water years 1960-61, 1963 to current year.
SEDIMENT RECORDS: Water years 1963-67.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1959 to September 1961, October 1962 to current year.
SEDIMENT RECORDS: October 1962 to September 1967.

INSTRUMENTATION.--Temperature recorder since October 1963.

REMARKS.--Recorder stopped Apr. 8, Aug. 5-17, Sept. 27-30; range in temperature, 10.5°C to 17.0°C, 16.5°C to 24.5°C, and 16.5°C to 20.0°C, respectively.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 30.5°C June 14, 1966, June 29, 1974; minimum, 4.0°C Jan. 2, Dec. 28, 1966, Dec. 14, 1967.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 30.0°C June 27; minimum, 4.5°C Jan. 8.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	12.5	13.0	11.5	8.0	7.5	8.0	6.5	11.5	8.0	13.0	11.0
2	14.0	12.5	12.5	11.5	8.0	7.5	7.0	6.0	11.0	7.5	11.5	9.5
3	14.0	12.0	12.0	11.5	8.0	7.5	6.5	6.0	11.5	7.0	13.0	9.5
4	14.0	11.5	12.0	11.5	9.5	7.5	8.0	6.0	11.5	8.5	13.5	9.0
5	13.5	12.0	13.0	12.0	11.5	9.5	9.5	8.0	9.0	5.5	13.5	7.5
6	12.5	12.0	14.0	11.5	11.0	9.5	8.0	7.5	6.0	5.5	15.5	8.0
7	12.0	11.5	13.5	11.0	10.5	8.0	8.0	5.0	7.0	5.0	15.5	9.5
8	12.0	11.0	15.0	11.5	9.5	8.5	8.0	4.5	7.5	7.0	14.0	11.0
9	12.5	11.5	11.5	10.0	9.0	7.5	8.0	6.0	10.0	7.5	17.5	9.0
10	13.0	12.0	11.5	11.0	9.0	8.5	11.5	6.0	9.0	7.5	16.5	12.0
11	14.0	12.5	11.0	9.5	9.0	8.5	9.0	7.0	8.0	6.5	18.0	12.0
12	14.5	12.5	10.0	8.5	9.0	8.5	9.0	7.0	11.0	7.0	17.0	10.0
13	13.5	12.0	9.5	8.5	9.0	7.5	9.0	7.0	9.5	7.5	17.5	9.5
14	13.0	12.0	10.0	9.0	7.5	6.0	9.0	7.0	9.5	9.0	18.5	10.5
15	13.0	12.0	11.0	9.5	6.0	5.5	10.0	8.0	10.5	9.0	17.5	11.0
16	13.5	13.0	13.0	11.0	6.0	5.5	10.0	8.0	10.0	9.0	20.0	13.5
17	15.5	14.0	11.0	9.5	6.0	5.5	11.0	8.0	13.5	9.5	20.5	14.0
18	15.5	15.0	9.5	7.5	6.5	5.5	11.5	7.5	13.0	11.0	16.5	12.0
19	15.5	14.0	8.0	7.0	6.5	5.5	11.0	8.0	12.0	9.0	16.5	10.0
20	16.5	14.5	8.5	7.5	6.5	6.0	10.5	7.0	11.0	7.0	16.0	9.0
21	16.0	15.0	8.5	8.5	7.5	6.0	10.0	6.5	10.5	6.5	18.0	10.5
22	15.5	13.5	8.5	8.0	9.0	7.5	9.5	6.0	11.0	7.5	19.5	12.5
23	14.0	11.5	9.0	8.0	9.5	8.5	10.5	6.0	11.0	9.0	17.5	11.0
24	11.5	10.5	9.0	8.5	9.0	9.0	9.5	6.5	12.5	8.0	16.0	10.5
25	11.0	10.0	9.5	9.0	9.0	8.5	9.0	5.5	14.0	10.0	15.5	9.5
26	12.0	11.0	9.5	9.5	9.0	8.0	8.5	5.0	15.0	10.5	16.0	9.0
27	12.0	11.5	9.5	9.5	10.5	8.5	9.0	5.0	16.5	11.0	15.5	9.0
28	11.5	11.0	9.5	8.5	10.5	9.5	9.0	5.5	17.5	13.5	15.0	10.5
29	12.0	10.5	8.5	7.5	10.5	9.5	8.5	5.5	16.0	13.0	18.5	9.5
30	13.0	12.5	8.0	7.5	10.0	8.5	10.0	7.0	---	---	18.5	10.5
31	12.5	12.0	---	---	9.0	7.5	10.5	7.5	---	---	15.0	10.0
MONTH	16.5	10.0	15.0	7.0	11.5	5.5	11.5	4.5	17.5	5.0	20.5	7.5

11176500 ARROYO VALLE NEAR LIVERMORE, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	7.5	19.5	13.0	22.5	15.0	24.5	18.0	22.0	18.0	26.5	22.0
2	17.5	10.0	19.0	13.5	20.0	12.5	23.0	15.0	23.5	19.0	24.0	19.0
3	13.5	10.0	19.0	11.5	21.5	14.5	24.0	18.0	21.5	18.0	24.5	21.5
4	13.5	11.0	20.0	13.5	20.0	12.5	24.0	16.0	25.0	19.5	22.5	19.0
5	13.0	11.0	19.0	11.5	20.0	14.5	---	---	---	---	24.0	20.5
6	15.5	10.5	19.5	14.5	19.0	12.5	---	---	---	---	22.5	19.0
7	17.0	10.5	20.5	13.5	19.5	15.0	---	---	---	---	25.5	21.5
8	---	---	23.0	16.0	20.0	13.5	---	---	---	---	24.5	19.0
9	17.5	9.0	21.0	14.5	19.0	16.0	---	---	---	---	25.0	22.5
10	13.5	10.5	22.5	15.5	19.0	14.0	---	---	---	---	23.0	20.5
11	15.5	8.5	23.0	14.0	20.0	15.5	---	---	---	---	22.0	20.5
12	16.5	11.0	26.0	17.5	20.5	14.0	---	---	---	---	21.5	18.0
13	18.0	10.0	24.5	17.5	24.5	15.5	---	---	---	---	23.5	20.5
14	18.5	10.5	24.5	18.5	23.0	15.5	24.0	18.0	---	---	21.0	17.5
15	16.5	10.5	24.5	16.5	26.0	17.5	24.5	19.5	---	---	21.0	18.5
16	15.5	10.5	23.0	15.5	23.5	18.0	---	---	---	---	20.0	17.0
17	16.5	9.5	21.5	13.5	25.0	18.0	---	---	---	---	21.0	18.5
18	18.0	12.0	21.0	14.5	23.0	17.0	---	---	19.5	18.5	21.0	17.5
19	18.5	10.5	20.0	13.0	24.5	18.0	---	---	18.5	17.5	21.5	18.5
20	21.5	13.0	22.0	14.5	22.5	17.5	22.5	17.0	22.5	18.5	19.5	17.5
21	19.5	12.0	21.0	15.0	23.0	18.0	23.0	18.5	22.0	20.0	21.5	18.0
22	19.0	13.5	21.5	15.0	23.0	15.0	24.0	16.0	21.5	20.0	20.0	16.5
23	19.0	11.0	18.5	13.0	27.0	19.0	25.0	20.5	22.5	18.5	21.5	18.5
24	19.5	13.0	19.0	15.5	26.0	19.5	24.5	18.5	25.5	20.5	20.0	16.5
25	18.5	11.0	21.0	14.0	27.5	21.0	26.5	20.0	22.0	19.0	20.5	18.5
26	18.5	13.0	23.5	16.5	26.5	19.5	24.5	19.5	25.0	18.5	19.5	18.5
27	18.5	10.5	20.0	15.5	30.0	20.5	---	---	23.5	17.5	---	---
28	18.5	13.0	19.5	14.5	27.0	21.0	---	---	26.0	21.0	---	---
29	19.0	11.0	18.0	12.0	26.5	21.0	---	---	24.5	19.0	---	---
30	21.5	12.5	20.0	15.5	23.0	15.5	---	---	27.5	21.5	---	---
31	---	---	20.5	15.5	---	---	---	---	25.0	20.0	---	---
MONTH	21.5	7.5	26.0	11.5	30.0	12.5	---	---	---	---	26.5	16.5

11176600 ARROYO VALLE AT PLEASANTON, CA

LOCATION.--Lat 37°40'02", long 121°53'02", in Valle de San Jose Grant, Alameda County, on right bank 0.4 mi (0.6 km) northwest of Pleasanton, and 5.8 mi (9.3 km) west of Livermore.

DRAINAGE AREA.--171 mi^2 (443 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Concrete control since Sept. 2, 1970. Datum of gage is 311.80 ft (95.037 m) above mean sea level.

REMARKS.--Records good. Flow regulated by Del Valle Reservoir 10 mi (16 km) upstream beginning in September 1968, capacity, 77,100 acre-ft (95.1 hm^3). Water imported from Sacramento-San Joaquin Delta (see REMARKS for station 11176500). Flow regulated by pumping and gravel operations above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,300 ft^3/s (320 m^3/s) Apr. 3, 1958, gage height, 25.36 ft (7.730 m); no flow at times in most years. Maximum discharge since construction of Del Valle Dam in 1968, 1,060 ft^3/s (30.0 m^3/s) Feb. 13, 1973, gage height, 11.17 ft (3.405 m); maximum gage height, 11.43 ft (3.484 m) Mar. 3, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19 ft^3/s (0.54 m^3/s) Oct. 9, gage height, 7.75 ft (2.362 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0				0	0						
2	9.1				0	.46						
3	9.4				0	.03						
4	9.6				0	0						
5	9.2				0	0						
6	9.0				0	0						
7	9.3				0	0						
8	9.3				0	0						
9	10				0	0						
10	5.7				0	0						
11	2.8				0	0						
12	.68				0	0						
13	.03				0	0						
14	0				0	.39						
15	0				0	.54						
16	0				0	0						
17	0				0	0						
18	0				0	.65						
19	0				0	.80						
20	0				0	.01						
21	0				0	.64						
22	0				0	1.1						
23	0				0	0						
24	0				0	0						
25	0				0	.17						
26	0				0	.08						
27	0				0	0						
28	0				0	1.5						
29	0				.57	1.9						
30	0				---	.05						
31	0	---			---	0	---		---			---
TOTAL	93.11	0	0	0	.57	8.32	0	0	0	0	0	0
MEAN	3.00	0	0	0	.020	.27	0	0	0	0	0	0
MAX	10	0	0	0	.57	1.9	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	185	0	0	0	1.1	17	0	0	0	0	0	0

CAL YR 1975 TOTAL 4618.05 MEAN 12.7 MAX 313 MIN 0 AC-FT 9160
WTR YR 1976 TOTAL 102.00 MEAN .28 MAX 10 MIN 0 AC-FT 202

11176600 ARROYO VALLE AT PLEASANTON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.
CHEMICAL ANALYSES: Water year 1975.
SPECIFIC CONDUCTANCE: Water years 1975 to current year.
WATER TEMPERATURES: Water years 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 1974 to current year.
WATER TEMPERATURES: December 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since December 1974.

REMARKS.--Specific conductance and water temperature tables omitted for periods of no flow June to September and April to September, respectively.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 736 micromhos Mar. 30, 1976; minimum, 82 micromhos Mar. 2, 1976.
WATER TEMPERATURES: Maximum, 30.0°C July 25, 26, 1975; minimum, 3.0°C Jan. 1, 1975.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 736 micromhos Mar. 30; minimum, 82 micromhos Mar. 2.
WATER TEMPERATURES: Maximum, 22.5°C Oct. 4, 5; minimum, 8.0°C Mar. 3.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	377	367	373									
2	381	371	376									
3	384	372	378									
4	388	376	382									
5	390	382	386									
6	389	385	388									
7	395	387	391									
8	401	391	395									
9	399	311	379									
10	385	315	361									
11	383	325	362									
12	395	383	389									
13	395	393	394									
14	---	---	---									
15	---	---	---									
16	---	---	---									
17	---	---	---									
18	---	---	---									
19	---	---	---									
20	---	---	---									
21	---	---	---									
22	---	---	---									
23	---	---	---									
24	---	---	---									
25	---	---	---									
26	---	---	---									
27	---	---	---									
28	---	---	---									
29	---	---	---									
30	---	---	---									
31	---	---	---									
MONTH	---	---	---									

11176600 ARROYO VALLE AT PLEASANTON, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---						
2	---	---	---	156	82	130						
3	---	---	---	156	152	155						
4	---	---	---	---	---	---						
5	---	---	---	---	---	---						
6	---	---	---	---	---	---						
7	---	---	---	---	---	---						
8	---	---	---	---	---	---						
9	---	---	---	---	---	---						
10	---	---	---	---	---	---						
11	---	---	---	---	---	---						
12	---	---	---	---	---	---						
13	---	---	---	---	---	---						
14	---	---	---	692	586	665						
15	---	---	---	696	678	687						
16	---	---	---	---	---	---						
17	---	---	---	---	---	---						
18	---	---	---	698	646	678						
19	---	---	---	672	642	655						
20	---	---	---	660	658	658						
21	---	---	---	676	638	665						
22	---	---	---	680	670	676						
23	---	---	---	---	---	---						
24	---	---	---	---	---	---						
25	---	---	---	666	658	662						
26	---	---	---	672	650	663						
27	---	---	---	---	---	---						
28	---	---	---	716	706	711						
29	121	89	111	734	716	727						
30	---	---	---	736	720	730						
31	---	---	---	---	---	---						
MONTH	---	---	---	---	---	---						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	22.0	18.0							---	---	---	---
2	21.5	18.0							---	---	9.5	8.5
3	22.0	17.5							---	---	8.5	8.0
4	22.5	18.0							---	---	---	---
5	22.5	18.5							---	---	---	---
6	21.0	18.0							---	---	---	---
7	19.5	16.5							---	---	---	---
8	19.5	15.5							---	---	---	---
9	18.5	16.0							---	---	---	---
10	18.5	16.5							---	---	---	---
11	17.5	16.0							---	---	---	---
12	17.0	16.0							---	---	---	---
13	16.0	15.0							---	---	---	---
14	---	---							---	---	17.0	13.0
15	---	---							---	---	18.0	13.5
16	---	---							---	---	---	---
17	---	---							---	---	---	---
18	---	---							---	---	17.5	15.5
19	---	---							---	---	16.5	13.5
20	---	---							---	---	14.0	13.0
21	---	---							---	---	19.5	17.0
22	---	---							---	---	18.0	15.0
23	---	---							---	---	---	---
24	---	---							---	---	---	---
25	---	---							---	---	16.5	14.5
26	---	---							---	---	15.0	13.0
27	---	---							---	---	---	---
28	---	---							---	---	16.5	13.0
29	---	---							13.0	12.5	18.0	13.0
30	---	---							---	---	16.5	14.5
31	---	---							---	---	---	---
MONTH	---	---							---	---	---	---

11177000 ARROYO DE LA LAGUNA NEAR PLEASANTON, CA

LOCATION.--Lat 37°36'55", long 121°52'50", in Valle de San Jose Grant, Alameda County, on right bank 0.3 mi (0.5 km) upstream from small left-bank tributary, 0.8 mi (1.3 km) downstream from highway bridge, and 3.2 mi (5.1 km) south of Pleasanton.

DRAINAGE AREA.--405 mi^2 (1,049 km^2).

PERIOD OF RECORD.--January 1912 to September 1930, October 1969 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 251.40 ft (76.627 m) above mean sea level. January 1912 to September 1917, at site 3.0 mi (4.8 km) upstream at different datum. October 1917 to September 1930, at site 0.8 mi (1.3 km) downstream at different datum.

REMARKS.--Records good. Flow partly regulated by Del Valle Reservoir 15 mi (24 km) upstream, capacity, 77,100 acre-ft (95.1 hm^3). Water imported from Sacramento-San Joaquin Delta (see REMARKS for station 11176500). Water from South Bay Aqueduct at times imported through Vallecitos Creek 1.5 mi (2.4 km) downstream.

AVERAGE DISCHARGE.--17 years (water years 1913-19, 1921-30), 42.5 ft^3/s (1.204 m^3/s), 30,790 acre-ft/yr (38.0 hm^3/yr); 7 years (water years 1970-76), 47.3 ft^3/s (1.340 m^3/s), 34,270 acre-ft/yr (42.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 9,810 ft^3/s (278 m^3/s) Jan. 25, 1914; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 312 ft^3/s (8.84 m^3/s) Feb. 29, gage height, 4.79 ft (1.460 m); minimum daily, 5.9 ft^3/s (0.17 m^3/s) Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	21	13	16	18	47	11	12	13	8.0	13	7.2
2	19	18	13	12	12	67	13	13	12	8.8	9.4	5.9
3	19	13	12	11	12	42	12	15	8.8	8.8	13	7.7
4	21	15	13	14	9.2	16	13	17	8.4	8.7	16	7.5
5	22	16	13	13	15	13	15	8.2	7.9	6.9	9.2	7.5
6	21	12	13	13	17	18	14	10	7.3	6.6	7.3	7.3
7	20	14	14	12	12	22	13	10	10	6.4	11	8.7
8	20	15	13	13	16	18	33	10	11	6.8	13	12
9	10	18	12	17	14	16	15	11	10	6.8	12	8.1
10	45	24	9.4	17	9.9	12	14	16	15	6.7	9.1	9.6
11	43	15	11	12	11	14	20	12	13	8.6	8.8	9.7
12	24	12	16	11	10	12	19	11	12	9.1	11	11
13	15	13	13	11	10	13	16	10	11	7.0	11	10
14	15	14	15	9.8	14	19	11	11	11	6.2	11	9.5
15	15	16	14	9.5	11	14	8.7	12	9.0	6.4	18	7.5
16	14	17	15	12	9.5	11	10	10	8.3	6.6	13	7.7
17	10	17	12	12	11	9.9	11	9.8	6.9	6.0	13	9.6
18	11	14	18	13	9.8	14	11	11	7.3	6.7	14	8.9
19	14	12	19	13	20	14	10	10	7.2	7.2	40	9.9
20	17	13	13	12	12	12	12	9.9	7.9	7.6	12	7.6
21	16	13	13	12	13	12	9.7	10	8.3	6.6	11	6.6
22	15	13	18	15	13	16	10	12	8.3	6.7	15	6.4
23	14	15	13	13	11	11	9.2	13	7.8	8.0	13	7.8
24	14	13	12	14	16	11	11	12	9.0	8.3	9.3	10
25	13	13	18	17	16	9.9	12	11	6.9	14	7.8	9.8
26	28	13	14	12	11	16	11	12	6.5	13	8.6	9.5
27	25	14	16	11	11	16	13	15	8.6	11	9.6	10
28	15	13	15	9.4	12	18	11	12	11	12	8.6	46
29	14	12	14	7.3	84	16	12	11	7.5	9.8	9.3	62
30	30	12	13	8.5	---	12	13	11	8.3	9.6	8.8	17
31	24	---	12	16	---	11	---	12	---	11	8.6	---
TOTAL	601	440	429.4	388.5	440.4	552.8	393.6	359.9	279.2	255.9	374.4	358.0
MEAN	19.4	14.7	13.9	12.5	15.2	17.8	13.1	11.6	9.31	8.25	12.1	11.9
MAX	45	24	19	17	84	67	33	17	15	14	40	62
MIN	10	12	9.4	7.3	9.2	9.9	8.7	8.2	6.5	6.0	7.3	5.9
AC-FT	1190	873	852	771	874	1100	781	714	554	508	743	710

CAL YR 1975 TOTAL 16688.9 MEAN 45.7 MAX 1150 MIN 8.5 AC-FT 33100
WTR YR 1976 TOTAL 4873.1 MEAN 13.3 MAX 84 MIN 5.9 AC-FT 9670

11177200 VALLECITOS CREEK AT SUNOL, CA

LOCATION.--Lat 37°35'42", long 121°52'51", in Valle de San Jose Grant, Alameda County, on right bank at culvert on Sunol Road, 700 ft (213 m) upstream from mouth, and 0.3 mi (0.5 km) east of Sunol.

DRAINAGE AREA.--7.48 mi^2 (19.37 km^2).

PERIOD OF RECORD.--Water years 1975 to current year.
CHEMICAL ANALYSES: Water years 1975 to current year.
SPECIFIC CONDUCTANCE: Water years 1975 to current year.
WATER TEMPERATURES: Water years 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1974 to current year.
WATER TEMPERATURES: November 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since November 1974.

COOPERATION.--Chemical-quality samples were collected by Alameda County Water District.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 770 micromhos Apr. 14, 1975; minimum, 167 micromhos Dec. 19, 1975.
WATER TEMPERATURES: Maximum, 27.5°C Aug. 24, 1975, Aug. 30, 1976; minimum, 2.5°C Jan. 2, 1975.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 698 micromhos Apr. 9; minimum, 167 micromhos Dec. 19.
WATER TEMPERATURES: Maximum, 27.5°C Aug. 30; minimum, 4.0°C Jan. 2.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
JAN 21...	1015	285	--	10	79	18	8.3	29
MAY 05...	1020	360	7.4	10	90	18	11	49
JUL 21...	1015	474	7.4	15	93	16	13	86

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
JAN 21...	174	.24	.91	.02	.93	.04	.00
MAY 05...	204	.28	.76	.01	.77	.02	.10
JUL 21...	261	.36	.75	.01	.76	.02	.00

11177200 VALLECITOS CREEK AT SUNOL, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	439	271	326	226	198	215	235	209	225
2	---	---	---	392	294	352	237	173	211	232	208	219
3	---	---	---	440	342	372	224	196	216	239	215	224
4	---	---	---	439	305	365	227	181	215	247	219	234
5	---	---	---	---	---	---	236	190	217	256	236	243
6	---	---	---	613	471	560	233	199	222	251	225	238
7	483	421	453	---	---	---	238	192	219	259	237	247
8	469	373	422	---	---	---	237	209	224	258	238	248
9	469	365	425	552	468	516	---	---	---	268	248	256
10	425	369	398	555	379	483	---	---	---	269	257	262
11	445	303	387	363	307	327	---	---	---	282	254	262
12	489	433	473	315	275	296	---	---	---	288	260	272
13	523	465	489	289	267	282	---	---	---	293	265	277
14	530	442	500	287	257	280	---	---	---	282	244	272
15	484	420	459	---	---	---	259	207	228	296	268	278
16	482	402	453	291	277	285	235	183	220	289	259	272
17	470	390	437	319	283	296	231	183	217	286	258	271
18	494	426	459	315	297	304	227	201	214	288	256	274
19	508	424	464	308	294	302	229	167	214	285	269	279
20	528	462	505	314	296	305	229	187	214	292	250	271
21	522	480	508	314	298	305	237	197	218	284	234	268
22	530	492	510	312	296	304	233	175	217	277	249	262
23	500	468	483	312	288	303	246	214	238	304	252	268
24	603	505	546	---	---	---	248	212	236	310	272	290
25	607	561	578	---	---	---	244	234	238	301	263	286
26	615	325	469	---	---	---	242	208	234	284	244	259
27	612	500	524	223	199	213	244	212	235	278	242	257
28	560	508	537	220	206	213	250	208	230	271	235	251
29	556	492	528	215	205	209	248	202	234	284	234	253
30	575	359	437	224	210	215	252	228	238	278	238	254
31	433	289	354	---	---	---	233	221	228	273	237	251
MONTH	615	289	472	---	---	---	259	167	224	310	208	259

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	266	242	252	335	299	314	323	289	310	351	323	336
2	---	---	---	551	241	392	333	293	316	341	315	329
3	---	---	---	460	352	397	322	312	316	343	313	330
4	295	267	281	404	334	349	325	313	317	343	317	331
5	269	235	258	353	279	303	332	320	326	342	318	330
6	275	261	266	315	275	297	338	320	331	356	322	334
7	309	253	268	304	282	298	381	329	348	366	324	340
8	305	277	292	366	296	319	556	386	453	370	328	341
9	303	285	295	463	323	386	698	552	615	355	313	332
10	307	275	284	447	355	387	684	400	551	339	309	323
11	293	269	282	442	374	397	604	428	521	354	306	325
12	298	272	286	437	357	392	602	496	535	---	---	---
13	298	278	291	419	363	393	576	334	480	---	---	---
14	304	286	299	428	298	364	358	326	338	---	---	---
15	314	290	303	337	275	312	360	330	343	---	---	---
16	318	294	305	307	285	294	367	331	344	---	---	---
17	330	312	318	302	246	290	381	345	362	---	---	---
18	336	318	323	305	269	288	383	365	370	---	---	---
19	342	314	329	299	243	287	383	347	364	---	---	---
20	352	318	330	306	256	284	445	359	380	---	---	---
21	347	317	331	305	265	291	383	349	369	---	---	---
22	349	323	333	351	255	309	389	349	372	---	---	---
23	334	322	329	416	342	377	381	357	365	---	---	---
24	334	300	325	447	397	413	385	359	367	---	---	---
25	337	319	328	413	297	339	386	354	366	---	---	---
26	339	319	329	316	272	304	388	362	371	---	---	---
27	336	322	329	311	291	304	392	360	373	---	---	---
28	336	320	327	314	284	308	392	368	376	---	---	---
29	412	284	332	326	272	312	398	366	378	---	---	---
30	---	---	---	327	301	316	381	325	358	---	---	---
31	---	---	---	330	294	314	---	---	---	---	---	---
MONTH	412	235	305	551	241	333	698	289	387	---	---	---

11177200 VALLECITOS CREEK AT SUNOL, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	404	372	388	486	474	480	386	366	376
2	---	---	---	404	376	390	483	473	477	376	362	369
3	341	325	330	414	390	402	484	464	469	379	355	364
4	344	302	326	424	400	412	482	464	471	375	361	367
5	334	306	321	430	404	417	475	463	467	396	360	376
6	335	317	325	426	400	414	467	459	461	384	372	379
7	336	316	325	446	412	424	482	454	465	407	371	389
8	344	312	328	436	416	425	482	404	462	431	391	412
9	339	325	332	440	416	428	481	457	469	442	418	429
10	334	316	325	448	422	434	485	467	475	436	424	431
11	364	322	332	440	420	430	484	470	476	439	423	429
12	345	323	334	452	426	438	486	472	478	443	423	433
13	356	322	339	456	414	436	481	473	477	448	420	433
14	374	332	353	456	416	437	481	473	478	450	422	436
15	369	333	352	462	442	452	485	471	477	443	429	437
16	363	331	346	464	448	457	486	462	475	459	433	445
17	372	332	353	469	457	462	480	456	470	478	440	457
18	357	329	342	469	451	459	455	435	448	484	456	469
19	351	325	339	477	457	466	443	419	430	481	463	471
20	350	330	340	477	459	467	426	406	415	491	471	480
21	355	333	344	476	456	465	414	406	410	482	436	468
22	377	333	354	488	452	470	417	399	409	476	454	465
23	408	332	371	484	464	474	403	391	398	488	454	470
24	398	378	388	488	460	475	402	380	391	498	468	476
25	400	376	389	489	467	481	396	372	386	482	466	474
26	404	370	388	499	473	486	381	357	369	478	472	475
27	402	370	388	505	477	490	381	353	367	496	482	491
28	402	376	391	499	477	488	386	358	371	504	410	469
29	398	362	380	492	474	484	386	360	374	478	366	406
30	396	370	383	492	476	483	385	363	374	444	328	388
31	---	---	---	484	476	480	385	365	374	---	---	---
MONTH	408	302	351	505	372	449	486	353	437	504	328	432

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	16.0	9.5	10.5	8.5	7.5	5.5	12.0	7.5	13.0	9.0
2	---	---	16.5	9.5	11.5	9.0	7.0	4.0	---	---	9.0	6.5
3	---	---	16.5	10.0	10.5	9.0	6.5	4.5	---	---	12.5	6.5
4	---	---	16.5	10.5	11.0	9.0	7.0	4.5	11.5	8.5	13.5	5.5
5	---	---	15.0	12.0	11.5	10.0	8.0	6.0	9.0	7.0	13.5	7.0
6	---	---	15.5	11.5	11.5	9.5	7.5	5.5	10.5	7.0	13.5	9.0
7	18.0	13.5	16.0	10.5	11.5	9.5	7.5	5.0	10.0	6.0	14.0	10.0
8	18.5	11.0	16.0	11.5	11.5	9.5	8.0	5.0	9.5	8.0	13.5	9.0
9	15.5	12.5	14.5	8.5	10.5	9.5	8.0	6.5	11.5	8.0	17.5	7.0
10	18.5	14.0	14.5	10.5	11.0	9.5	8.0	6.5	11.5	7.5	13.5	10.0
11	19.0	13.0	13.5	10.5	11.0	9.5	8.0	6.0	12.0	7.0	19.5	10.0
12	18.0	12.5	14.0	12.0	10.5	9.5	8.5	7.0	12.5	8.0	18.5	7.5
13	19.5	11.5	14.0	12.0	10.0	9.0	8.5	6.0	12.5	10.0	18.5	7.5
14	20.5	11.5	14.0	12.5	9.0	8.0	9.0	6.5	11.0	10.0	19.5	9.0
15	20.0	11.5	14.5	12.5	9.0	7.5	9.5	7.0	12.5	10.0	16.5	10.5
16	20.5	12.0	13.5	12.5	9.0	7.5	9.5	6.5	11.5	9.0	17.5	13.0
17	19.0	12.5	13.0	11.5	9.0	7.5	9.5	6.5	14.0	10.5	17.0	13.5
18	21.0	15.0	12.0	10.5	9.0	7.0	9.5	6.0	14.0	10.5	15.5	13.0
19	20.0	12.5	12.0	10.5	8.5	7.0	9.5	7.0	13.5	10.5	16.0	12.0
20	20.0	12.5	12.5	11.0	8.5	7.5	10.0	6.5	13.5	9.0	16.5	11.5
21	18.5	13.5	12.0	10.5	9.0	7.5	10.0	6.5	14.0	8.5	17.5	11.5
22	17.5	12.0	11.5	10.0	9.5	8.0	9.5	6.0	13.0	9.0	19.5	12.5
23	15.0	9.0	12.0	10.0	9.0	8.0	9.5	6.0	12.5	9.5	19.5	9.5
24	16.0	8.0	12.5	10.5	9.5	7.5	10.0	8.0	14.0	9.0	17.5	9.5
25	14.5	8.5	11.5	10.0	9.0	8.0	10.0	6.0	13.5	9.5	16.5	7.5
26	15.5	13.0	11.0	9.5	9.0	8.0	10.0	6.0	15.0	9.5	16.0	11.5
27	16.0	11.0	11.0	10.0	10.0	8.5	10.5	6.0	15.5	10.5	15.0	11.0
28	15.5	9.0	10.5	9.5	10.5	8.0	11.0	6.0	16.5	12.0	15.5	12.0
29	15.0	8.5	10.0	8.5	10.5	8.5	11.0	6.5	13.0	11.5	16.5	11.0
30	17.0	11.5	10.0	8.5	10.0	7.5	11.5	7.0	---	---	17.5	11.5
31	15.5	10.0	---	---	8.0	6.5	11.5	7.0	---	---	15.0	12.0
MONTH	21.0	8.0	16.5	8.5	11.5	6.5	11.5	4.0	16.5	6.0	19.5	5.5

11177200 VALLECITOS CREEK AT SUNOL, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	11.0	---	---	19.5	14.0	23.0	18.5	23.5	19.5	27.0	22.0
2	17.5	11.0	---	---	19.5	14.0	22.5	18.0	23.5	19.5	26.5	22.0
3	14.5	11.5	---	---	18.5	13.5	22.5	18.0	22.5	19.0	25.5	21.5
4	15.0	11.5	---	---	19.0	12.5	23.0	18.0	25.5	19.5	25.0	22.0
5	13.5	12.0	---	---	18.0	12.5	23.0	18.0	23.0	19.0	26.0	22.0
6	16.5	12.0	---	---	18.0	13.0	22.5	18.0	22.0	19.0	25.0	21.0
7	18.5	12.0	---	---	17.0	13.0	24.5	18.0	26.0	18.0	25.0	20.5
8	17.0	11.5	---	---	18.0	12.5	23.0	18.5	22.5	16.0	26.0	21.0
9	20.5	9.5	---	---	17.0	13.5	23.0	18.5	22.5	18.0	25.5	22.0
10	13.0	9.5	---	---	17.5	13.5	23.0	18.5	22.5	18.0	23.5	22.5
11	17.0	7.5	---	---	21.0	13.5	22.5	18.0	22.5	18.5	24.0	22.0
12	19.5	10.0	25.0	17.0	19.0	13.5	23.5	18.5	22.0	18.5	24.0	21.0
13	19.0	10.0	25.5	17.5	19.5	13.5	25.5	18.5	20.5	18.0	24.5	20.5
14	19.0	10.5	24.0	17.0	20.0	14.5	23.0	18.5	19.5	18.0	23.5	20.5
15	16.0	11.5	22.5	18.0	20.5	15.5	23.5	19.0	21.5	18.0	22.5	19.5
16	16.5	10.0	21.5	18.0	20.5	15.0	23.0	19.0	21.5	17.5	22.0	19.0
17	17.5	11.0	20.5	17.0	21.5	15.5	23.5	19.5	20.0	18.0	22.5	19.0
18	18.5	12.0	19.0	15.5	21.0	15.5	22.5	19.0	20.5	19.0	23.0	19.0
19	19.0	11.0	19.0	15.0	21.0	16.0	23.0	18.5	22.5	19.0	22.5	20.0
20	23.0	12.5	19.5	14.0	20.5	16.5	22.5	18.5	24.5	19.5	22.5	19.5
21	19.0	12.5	19.5	14.5	20.0	16.0	22.0	18.0	24.0	20.5	22.0	18.5
22	19.0	12.5	19.5	14.5	21.0	16.0	23.0	18.0	23.5	20.5	21.5	18.0
23	20.5	12.5	18.5	14.0	26.0	16.0	25.5	19.0	24.5	20.5	22.0	18.0
24	20.5	13.0	18.5	14.0	23.0	18.5	23.0	18.0	25.5	21.0	23.0	19.0
25	19.0	11.5	19.5	14.5	23.5	19.5	23.5	19.0	25.0	20.5	22.0	19.0
26	18.5	12.0	20.0	14.5	24.0	19.0	24.0	19.0	24.5	19.5	21.5	19.0
27	20.0	12.0	19.5	14.5	24.5	20.0	24.5	19.5	25.0	20.0	21.5	19.0
28	19.0	12.5	18.5	14.0	24.5	21.0	23.5	19.5	26.0	21.0	20.5	18.5
29	19.5	11.5	17.5	14.0	24.5	19.0	24.0	19.5	26.5	21.5	22.0	18.0
30	---	---	18.5	14.5	23.0	18.5	24.0	19.5	27.5	22.5	23.5	18.0
31	---	---	19.5	15.0	---	---	22.0	19.5	27.0	23.0	---	---
MONTH	23.0	7.5	---	---	26.0	12.5	25.5	18.0	27.5	16.0	27.0	18.0

11179000 ALAMEDA CREEK NEAR NILES, CA

LOCATION.--Lat 37°35'14", long 121°57'35", in NW¼ sec.15, T.4 S., R.1 W., Alameda County, on right bank 0.3 mi (0.5 km) downstream from railroad bridge, and 1.2 mi (1.9 km) northeast of Niles.

DRAINAGE AREA.--633 mi^2 (1,639 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1891 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Published as "at Niles Dam" 1891-1900, and as "at Sunolglen" 1901-21.

REVISED RECORDS.--WSP 1315-B: 1921. WSP 1515: 1951-52, 1956. WSP 1565: 1945.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 85.65 ft (26.106 m) above mean sea level. Prior to 1901, nonrecording gage at site 1 mi (2 km) upstream at different datum. 1901 to Sept. 30, 1914, nonrecording gage and Oct. 1, 1914, to Sept. 30, 1916, water-stage recorder at site 4.5 mi (7.2 km) upstream at different datum. Oct. 1, 1916, to Dec. 17, 1923, water-stage recorder at site 800 ft (244 m) upstream at different datum.

REMARKS.--Records good. Flow regulated by Calaveras Reservoir, usable capacity, 96,800 acre-ft (119 hm^3), most of which is diverted for San Francisco water supply, beginning in 1916 although dam not completed until 1925, by San Antonio Reservoir beginning in February 1965, capacity, 51,000 acre-ft (62.9 hm^3), and by Del Valle Reservoir 23 mi (37 km) upstream beginning in September 1968, capacity, 77,100 acre-ft (95.1 hm^3). Natural flow of stream affected by imported water from Delta-Mendota Canal beginning in 1962. Other diversions from ground-water basin for irrigation of 9,000 acres (36.4 km^2) above station.

AVERAGE DISCHARGE.--71 years (water years 1896-1962), 123 ft^3/s (3.483 m^3/s), 89,050 acre-ft/yr (110 hm^3/yr); 14 years (water years 1963-76), 97.1 ft^3/s (2.750 m^3/s), 70,350 acre-ft/yr (86.7 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,000 ft^3/s (821 m^3/s) Dec. 23, 1955, gage height, 14.9 ft (4.54 m); minimum (water years 1892-1962), no flow at times; minimum daily (water years 1963-76), 1.4 ft^3/s (0.040 m^3/s) Dec. 7, 8, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 340 ft^3/s (9.63 m^3/s) Feb. 29, gage height, 4.13 ft (1.259 m); minimum daily, 10 ft^3/s (0.28 m^3/s) Oct. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	20	44	48	37	88	47	28	58	78	51	41
2	18	18	45	45	30	73	38	29	56	78	43	38
3	20	14	44	43	26	72	34	32	45	67	43	40
4	23	15	44	44	26	26	38	35	45	67	42	41
5	22	15	44	46	29	30	36	30	43	64	53	41
6	23	13	42	44	38	53	38	29	43	63	39	42
7	24	14	44	43	31	60	30	29	44	52	26	42
8	22	14	42	43	32	48	39	27	48	57	29	47
9	22	18	52	47	38	20	21	27	48	59	57	46
10	54	25	57	51	29	17	18	30	51	60	47	44
11	50	25	54	45	30	15	24	29	39	59	50	53
12	27	37	61	43	29	18	26	26	49	61	49	55
13	15	43	60	42	32	14	21	26	48	50	48	54
14	16	46	59	42	35	23	29	24	47	62	46	54
15	14	48	58	40	32	28	28	61	60	62	60	50
16	15	51	61	44	30	45	31	58	60	63	60	52
17	10	47	60	44	31	49	32	62	59	62	61	53
18	11	45	61	45	30	44	32	80	60	62	62	55
19	15	42	64	47	42	48	29	79	59	63	59	56
20	18	42	60	47	37	44	24	61	59	64	42	52
21	15	43	59	41	34	44	27	57	61	63	58	38
22	14	44	62	44	33	41	26	56	65	62	62	36
23	15	47	45	39	32	15	27	58	58	54	63	36
24	14	43	44	44	33	13	27	57	72	62	54	35
25	13	43	49	50	39	19	30	58	77	67	45	39
26	31	44	47	40	30	49	29	56	77	69	45	39
27	26	46	46	28	30	47	32	60	76	61	47	39
28	16	44	49	27	32	55	30	60	84	56	44	45
29	15	43	45	22	95	52	32	57	58	54	45	76
30	36	44	43	21	---	44	32	56	77	45	44	22
31	23	---	43	31	---	46	---	58	---	43	44	---
TOTAL	655	1033	1588	1280	1002	1240	907	1435	1726	1889	1518	1361
MEAN	21.1	34.4	51.2	41.3	34.6	40.0	30.2	46.3	57.5	60.9	49.0	45.4
MAX	54	51	64	51	95	88	47	80	84	78	63	76
MIN	10	13	42	21	26	13	18	24	39	43	26	22
AC-FT	1300	2050	3150	2540	1990	2460	1800	2850	3420	3750	3010	2700

CAL YR 1975 TOTAL 25566 MEAN 70.0 MAX 1770 MIN 10 AC-FT 50710
WTR YR 1976 TOTAL 15634 MEAN 42.7 MAX 95 MIN 10 AC-FT 31010

11179000 ALAMEDA CREEK NEAR NILES, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1906, 1952-73, 1975 to current year.
CHEMICAL ANALYSES: Water years 1906, 1952-67, 1969, 1975 to current year.
SPECIFIC CONDUCTANCE: Water years 1956-57, 1959-62, 1976.
WATER TEMPERATURES: Water years 1956-73, 1976.
SEDIMENT RECORDS: Water years 1957-73.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1956 to July 1957, August 1959 to September 1962, October 1975 to September 1976.
WATER TEMPERATURES: July 1956 to September 1973, October 1975 to September 1976.

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

REMARKS.--Unpublished records of daily specific conductance are included in extremes and are available in files of district office. Where no maximum or minimum is shown, temperature is once-daily reading.

COOPERATION.--The letter "A" following a date indicates chemical-quality samples were collected by Alameda County Water District.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 1,500 micromhos Jan. 8, 1962; minimum daily, 227 micromhos Feb. 16, 1962.
WATER TEMPERATURES: Maximum daily (water years 1957-62, 1965-73, 1976), 31.0°C June 1, 1960; minimum daily, 2.5°C Dec. 12, 1972.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,020 micromhos Nov. 7; minimum, 384 micromhos Dec. 17, 18.
WATER TEMPERATURES: Maximum, 25.0°C Aug. 31; minimum, 4.5°C Jan. 2, 4.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT											
22...	1130	14	961	8.0	15.0	--	--	--	--	--	--
NOV											
05...A	1000	15	1010	--	--	2	--	230	--	45	29
11...	1620	26	716	8.3	11.5	--	--	--	--	--	--
DEC											
15...	1115	58	429	7.2	6.5	--	--	--	--	--	--
JAN											
21...	0800	41	531	7.2	7.0	--	--	--	--	--	--
21...A	0950	40	528	--	--	10	--	130	--	28	14
FEB											
18...	1400	27	678	8.1	13.5	--	--	--	--	--	--
MAR											
08...	1430	51	--	8.1	12.5	--	--	170	61	35	19
APR											
21...	1115	25	--	8.2	16.0	--	--	--	--	--	--
MAY											
05...A	0950	31	816	7.4	--	8	--	180	--	35	23
12...	1145	26	689	8.0	19.0	--	--	--	--	--	--
JUN											
23...	1020	70	497	8.0	18.0	--	--	--	--	--	--
JUL											
14...	0945	63	549	7.7	19.5	--	24	--	--	--	--
21...A	0955	63	494	7.3	--	20	--	120	--	21	16
AUG											
17...	1115	66	610	7.9	18.0	--	33	--	--	--	--
SEP											
20...	1345	55	588	8.1	20.0	--	8	--	--	--	--
20...	1420	55	578	8.1	20.5	9	--	120	35	21	17

11179000 ALAMEDA CREEK NEAR NILES, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)
OCT											
22...	--	--	--	--	--	--	--	--	--	--	--
NOV											
05...	--	--	--	--	--	--	--	--	140	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
DEC											
15...	--	--	--	--	--	--	--	--	--	--	--
JAN											
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	63	--	--
FEB											
18...	--	--	--	--	--	--	--	--	--	--	--
MAR											
08...	59	43	2.0	4.9	128	0	105	65	76	.3	17
APR											
21...	--	--	--	--	--	--	--	--	--	--	--
MAY											
05...	--	--	--	--	--	--	--	--	110	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
JUN											
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
14...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	96	--	--
AUG											
17...	--	--	--	--	--	--	--	--	--	--	--
SEP											
20...	--	--	--	--	--	--	--	--	--	--	--
20...	71	55	2.8	4.4	107	0	88	47	95	.2	17

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
OCT											
22...	--	--	--	--	--	--	11	10	.03	.01	1.6
NOV											
05...	601	--	.82	24.3	12	.08	--	12	--	.14	--
11...	--	--	--	--	--	--	6.5	6.5	.03	.00	2.0
DEC											
15...	--	--	--	--	--	--	3.6	3.5	.08	.04	.87
JAN											
21...	--	--	--	--	--	--	5.3	5.3	.24	.40	1.3
21...	316	--	.43	34.1	5.2	.20	--	5.4	--	.36	--
FEB											
18...	--	--	--	--	--	--	8.5	8.5	.00	.13	1.2
MAR											
08...	380	372	.52	52.3	--	--	6.0	5.7	.04	.09	1.5
APR											
21...	--	--	--	--	--	--	8.2	8.1	.10	.09	1.1
MAY											
05...	457	--	.62	38.3	7.2	.08	--	7.3	--	.01	--
12...	--	--	--	--	--	--	4.2	4.1	.35	.27	1.0
JUN											
23...	--	--	--	--	--	--	2.5	2.2	.01	.03	.60
JUL											
14...	--	--	--	--	--	--	1.6	1.2	.02	.00	.53
21...	322	--	.44	54.8	2.0	.00	--	2.0	--	.01	--
AUG											
17...	--	--	--	--	--	--	2.5	2.4	.05	.00	.64
SEP											
20...	--	--	--	--	--	--	3.1	2.8	.00	.00	.39
20...	332	339	.45	49.3	--	--	--	3.1	--	--	--

11179000 ALAMEDA CREEK NEAR NILES, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	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-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (P04) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT										
22...	1.4	1.6	.20	1.4	13	6.1	5.5	17	9.7	--
NOV										
05...	--	--	--	--	--	--	--	--	--	.00
11...	2.6	2.0	.00	2.6	8.5	2.9	2.9	8.9	13	--
DEC										
15...	.81	.95	.10	.85	4.6	1.6	1.5	4.6	6.1	--
JAN										
21...	1.5	1.5	.00	1.9	6.8	2.5	2.4	7.4	18	--
21...	--	--	--	--	--	--	--	--	--	.10
FEB										
18...	1.8	1.2	.00	1.9	9.7	2.9	2.8	8.6	20	--
MAR										
08...	1.0	1.5	.40	1.1	7.5	2.3	2.1	6.4	6.8	.30
APR										
21...	1.2	1.2	.00	1.3	9.4	3.6	2.8	8.6	6.8	--
MAY										
05...	--	--	--	--	--	--	--	--	--	.20
12...	1.1	1.4	--	1.4	5.6	2.4	2.3	7.1	6.7	--
JUN										
23...	.36	.61	.22	.39	3.1	1.4	.95	2.9	6.0	--
JUL										
14...	.28	.55	.27	.28	2.2	.84	.52	1.6	--	--
21...	--	--	--	--	--	--	--	--	--	.00
AUG										
17...	.48	.69	.21	.48	3.2	1.2	.89	2.7	--	--
SEP										
20...	.38	.39	.01	.38	3.5	1.4	1.2	3.7	--	--
20...	--	--	--	--	--	--	--	--	--	.00

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)
OCT							
22...	1130	--	--	890	--	--	--
DEC							
15...	1115	--	--	300	--	--	--
MAR							
08...	1430	2	0	420	<10	10	20
APR							
21...	1115	--	--	680	--	--	--
JUL							
14...	0945	--	--	190	--	--	--
SEP							
20...	1420	5	0	260	10	0	10

DATE	DIS-SOLVED IRON (FE) (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)
OCT						
22...	--	--	--	--	--	--
DEC						
15...	--	--	--	--	--	--
MAR						
08...	60	<100	.0	0	20	20
APR						
21...	--	--	--	--	--	--
JUL						
14...	--	--	--	--	--	--
SEP						
20...	80	<100	.0	0	<10	0

11179000 ALAMEDA CREEK NEAR NILES, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	812	716	758	496	456	470	534	486	507
2	---	---	---	869	811	845	478	426	457	583	477	544
3	---	---	---	915	863	884	482	442	456	509	475	490
4	---	---	---	967	899	928	504	404	442	542	494	509
5	---	---	---	969	929	943	542	508	526	540	514	523
6	---	---	---	987	917	948	538	504	517	523	507	514
7	---	---	---	1020	959	992	516	480	498	535	515	524
8	---	---	---	1000	896	950	516	494	504	524	506	516
9	---	---	---	992	912	958	502	424	473	544	512	532
10	---	---	---	972	858	919	420	392	401	625	511	582
11	---	---	---	852	722	817	440	408	427	555	499	523
12	---	---	---	770	592	714	470	440	451	520	498	507
13	---	---	---	596	548	575	460	442	448	530	490	519
14	---	---	---	630	572	602	446	410	425	519	497	511
15	---	---	---	672	588	617	428	406	421	519	461	489
16	---	---	---	674	592	639	448	422	433	518	456	496
17	---	---	---	600	554	576	428	384	410	524	516	519
18	---	---	---	646	548	613	456	384	421	520	512	517
19	---	---	---	592	542	570	478	440	459	524	516	521
20	---	---	---	620	558	584	452	402	436	526	518	522
21	---	---	---	610	534	584	444	400	421	525	517	520
22	---	---	---	574	542	557	496	424	451	529	523	525
23	---	---	---	596	554	574	501	451	482	551	531	541
24	---	---	---	560	516	539	529	487	504	567	535	547
25	---	---	---	570	490	546	511	481	490	555	549	552
26	---	---	---	530	500	515	549	493	533	553	539	545
27	---	---	---	564	534	553	515	483	496	557	541	549
28	---	---	---	578	556	570	537	483	511	573	557	567
29	---	---	---	552	454	496	513	475	496	585	573	577
30	720	662	686	482	456	468	507	463	493	626	572	585
31	724	620	667	---	---	---	518	480	498	622	602	609
MONTH	---	---	---	1020	454	694	549	384	466	626	456	532

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	646	616	639	762	730	753	620	600	611	775	763	770
2	650	636	644	876	762	809	616	602	610	774	758	767
3	646	626	638	864	840	851	626	616	619	773	759	767
4	707	621	651	874	856	861	627	615	620	771	763	767
5	635	605	619	924	882	903	625	617	620	770	760	766
6	710	640	679	891	767	842	627	617	623	757	725	736
7	633	563	594	818	744	777	639	617	626	738	712	725
8	625	605	614	811	699	752	738	630	686	728	714	720
9	716	578	656	830	686	767	698	670	681	739	713	722
10	563	515	534	905	839	881	658	644	654	741	713	728
11	605	543	574	920	904	909	706	636	673	750	718	732
12	618	596	603	951	917	934	690	678	684	752	718	734
13	627	601	610	964	912	943	684	670	678	741	717	729
14	629	613	623	960	914	937	690	656	673	733	717	726
15	636	604	622	963	895	929	653	637	645	728	680	698
16	607	581	593	898	746	839	637	623	628	676	634	651
17	623	603	613	843	715	760	623	609	615	631	605	615
18	672	622	648	786	712	748	617	609	613	601	591	594
19	712	674	685	793	719	751	621	611	615	590	576	582
20	726	698	710	770	674	722	624	610	618	576	566	572
21	708	694	700	675	615	640	660	624	644	579	567	573
22	724	708	715	666	622	640	716	640	671	591	577	582
23	736	726	730	769	627	686	754	718	735	590	562	580
24	744	734	738	773	761	767	775	749	762	558	538	547
25	754	742	749	829	777	800	792	772	779	535	511	520
26	752	734	743	823	707	742	793	779	785	519	503	511
27	754	734	741	706	652	682	789	773	782	526	510	516
28	762	748	755	654	642	646	784	776	781	526	518	522
29	808	726	761	644	626	632	781	767	774	523	517	520
30	---	---	---	628	610	619	782	762	772	521	513	517
31	---	---	---	624	608	617	---	---	---	512	506	509
MONTH	808	515	661	964	608	779	793	600	676	775	503	645

11179000 ALAMEDA CREEK NEAR NILES, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	540	488	507	630	620	625	761	751	757	514	504	509
2	553	535	546	625	619	622	768	762	765	512	502	508
3	562	548	555	619	613	616	774	768	772	503	493	500
4	572	542	561	618	612	614	783	761	772	505	497	500
5	577	553	565	614	606	610	781	723	745	511	499	504
6	590	560	575	611	605	608	717	691	702	514	502	508
7	597	571	582	607	603	606	689	675	682	518	506	511
8	605	571	588	604	596	600	693	671	679	526	512	517
9	600	574	586	594	588	591	701	687	692	538	524	528
10	593	571	582	587	577	582	700	690	695	551	533	541
11	606	584	595	577	569	573	698	688	694	567	547	555
12	732	580	660	568	562	566	696	686	692	577	563	567
13	649	619	636	564	552	557	696	688	692	592	572	579
14	644	610	629	555	545	550	702	690	696	602	586	592
15	663	627	647	552	538	544	702	683	692	616	598	606
16	668	620	646	554	546	550	690	658	673	625	611	617
17	678	638	665	557	551	554	658	608	631	623	603	610
18	621	555	596	562	556	559	608	600	603	609	593	603
19	540	490	516	566	558	563	604	594	597	613	603	608
20	547	491	522	573	563	568	606	596	602	618	606	611
21	565	531	550	580	568	573	602	580	589	660	614	632
22	538	468	509	584	574	578	578	568	573	668	640	652
23	538	457	502	617	589	597	574	562	568	698	636	675
24	593	535	575	644	624	631	566	542	554	754	696	731
25	583	569	575	664	648	653	548	540	545	786	738	767
26	582	566	573	679	665	670	542	518	529	796	764	779
27	594	574	580	696	680	687	519	507	515	806	774	789
28	613	589	599	714	698	704	513	497	506	796	680	769
29	625	609	617	729	715	722	511	499	505	790	590	684
30	632	622	625	742	730	737	511	503	507	585	524	554
31	---	---	---	752	746	749	510	502	506	---	---	---
MONTH	732	457	582	752	538	612	783	497	636	806	493	604

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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	--	18.5	--	13.5	--	11.5	10.0	--	9.0	7.0	--	6.0	10.5	--	8.5	13.0	--	11.0
2	--	--	--	13.5	--	11.5	11.0	--	9.5	6.0	--	4.5	10.5	--	8.5	11.0	--	8.0
3	--	--	--	14.0	--	11.5	10.5	--	9.5	6.0	--	5.0	10.5	--	8.0	11.0	--	8.0
4	--	--	--	13.5	--	12.0	11.0	--	9.5	6.5	--	4.5	10.5	--	8.5	11.5	--	8.0
5	--	--	--	14.5	--	13.0	12.0	--	11.0	8.0	--	6.0	9.5	--	7.0	12.0	--	8.5
6	--	17.5	--	14.5	--	13.5	11.5	--	10.5	8.0	--	6.5	8.0	--	6.5	12.0	--	9.0
7	--	--	--	14.0	--	12.5	11.0	--	10.0	7.0	--	6.0	8.5	--	6.5	13.5	--	11.0
8	--	--	--	14.5	--	13.0	11.0	--	10.0	7.5	--	6.0	9.5	--	7.5	13.0	--	11.5
9	--	--	--	13.0	--	11.0	10.5	--	9.5	8.0	--	6.5	11.0	--	8.5	14.0	--	10.5
10	--	--	--	13.0	--	11.5	10.5	--	10.0	8.5	--	7.5	10.5	--	8.0	13.0	--	11.5
11	--	--	--	12.0	--	10.0	11.0	--	10.0	8.0	--	7.0	10.0	--	7.5	15.0	--	12.0
12	--	--	--	12.0	--	10.5	11.0	--	10.0	9.0	--	7.5	10.5	--	8.0	14.5	--	11.0
13	--	--	--	12.5	--	11.5	10.0	--	9.0	8.5	--	7.5	11.5	--	9.0	14.5	--	11.0
14	--	--	--	13.0	--	12.0	9.0	--	7.5	8.5	--	7.0	12.0	--	11.0	15.5	--	12.0
15	--	--	--	13.5	--	12.0	7.5	--	6.5	9.5	--	7.5	12.0	--	10.5	16.5	--	13.0
16	--	--	--	14.0	--	13.0	8.0	--	7.0	9.0	--	7.5	11.0	--	10.0	16.5	--	14.0
17	--	--	--	13.0	--	10.5	8.0	--	7.0	9.0	--	8.0	13.5	--	10.5	17.0	--	14.5
18	--	--	--	10.5	--	9.5	7.5	--	6.5	9.0	--	7.5	14.0	--	11.5	15.5	--	13.0
19	--	--	--	10.0	--	8.5	7.5	--	6.5	9.5	--	8.0	13.0	--	11.5	14.5	--	12.0
20	--	--	--	11.5	--	9.5	7.5	--	6.5	9.5	--	8.0	12.0	--	10.0	14.5	--	11.0
21	--	--	--	10.5	--	9.5	8.5	--	7.5	9.0	--	7.0	11.5	--	8.5	15.5	--	12.0
22	--	15.0	--	10.0	--	9.0	10.0	--	8.5	8.5	--	7.0	11.5	--	9.5	15.5	--	13.0
23	--	--	--	10.5	--	9.0	9.5	--	8.5	8.5	--	7.0	11.0	--	9.5	15.5	--	12.5
24	--	--	--	10.5	--	9.5	9.0	--	8.0	10.0	--	8.0	12.5	--	9.0	14.0	--	12.5
25	--	--	--	11.5	--	10.0	9.0	--	8.0	8.5	--	7.0	12.5	--	10.5	14.0	--	11.0
26	--	--	--	11.0	--	10.0	9.5	--	8.0	8.5	--	7.0	13.5	--	11.0	14.0	--	11.5
27	--	--	--	11.5	--	11.0	10.5	--	9.0	8.5	--	6.5	15.0	--	11.5	13.5	--	11.0
28	--	--	--	11.0	--	9.0	9.5	--	8.5	8.5	--	6.5	16.0	--	12.5	15.0	--	11.5
29	--	17.5	--	9.0	--	8.0	10.5	--	9.0	8.5	--	6.5	13.5	--	13.0	15.0	--	11.5
30	18.5	--	13.5	10.0	--	8.5	10.5	--	8.5	9.5	--	7.0	--	--	--	15.5	--	12.0
31	14.0	--	9.5	--	--	--	8.5	--	7.0	10.0	--	7.5	--	--	--	14.0	--	11.5
MONTH	--	--	--	14.5	--	8.0	12.0	--	6.5	10.0	--	4.5	16.0	--	6.5	17.0	--	8.0

11179000 ALAMEDA CREEK NEAR NILES, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	APR			MAY			JUN			JUL			AUG			SEP		
	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN
1	14.0	--	10.5	19.0	--	15.5	18.5	--	15.5	21.0	--	18.0	22.0	--	19.5	23.5	--	21.5
2	14.5	--	11.0	18.5	--	16.0	18.5	--	16.0	21.0	--	18.0	22.0	--	19.5	23.5	--	20.5
3	13.0	--	12.0	18.5	--	14.5	18.5	--	15.5	21.0	--	18.5	20.5	--	19.5	23.0	--	20.5
4	13.0	--	11.5	18.5	--	15.5	18.5	--	15.0	22.0	--	18.5	22.0	--	19.0	22.5	--	20.5
5	12.5	--	12.0	17.0	--	15.0	17.5	--	15.0	22.0	--	19.0	21.5	--	19.5	23.0	--	20.5
6	14.5	--	12.0	18.5	--	14.5	18.0	--	15.0	22.0	--	18.5	20.0	--	18.5	22.5	--	20.0
7	14.5	--	13.0	19.5	--	15.0	17.0	--	14.5	21.5	--	19.0	21.5	--	18.5	23.0	--	19.5
8	15.0	--	12.5	20.5	--	16.0	18.0	--	14.5	22.5	--	19.5	22.5	--	18.0	23.0	--	20.0
9	15.5	--	11.5	20.5	--	16.0	17.5	--	15.5	22.0	--	19.5	21.5	--	18.5	23.0	--	21.0
10	14.5	--	12.5	19.0	--	16.5	16.0	--	15.0	22.0	--	18.5	22.0	--	19.0	22.5	--	21.5
11	13.5	--	11.0	21.0	--	15.5	17.0	--	15.0	21.5	--	18.5	21.5	--	19.0	21.5	--	20.5
12	15.0	--	12.0	23.0	--	17.0	19.0	--	16.0	22.5	--	19.0	21.0	--	19.0	21.5	--	19.5
13	16.0	--	12.5	23.0	--	18.5	20.0	--	16.0	22.5	--	19.0	19.5	--	18.5	22.0	--	19.0
14	16.5	--	12.5	22.0	--	18.5	21.0	--	17.0	22.0	--	19.0	18.5	--	18.0	21.0	--	19.5
15	15.5	--	13.0	21.5	--	18.0	21.0	--	17.5	22.0	--	19.0	19.5	--	18.0	20.5	--	19.0
16	14.5	--	11.0	20.5	--	18.0	21.0	--	18.5	22.0	--	19.5	20.0	--	17.5	20.0	--	18.5
17	15.5	--	11.5	19.5	--	16.5	21.5	--	18.0	22.0	--	19.5	19.0	--	18.0	20.5	--	18.0
18	17.0	--	13.5	18.0	--	16.0	21.0	--	18.5	21.0	--	19.0	19.0	--	18.0	21.0	--	18.5
19	17.5	--	13.0	18.0	--	15.5	21.0	--	18.0	21.0	--	18.5	20.0	--	18.5	20.5	--	19.0
20	19.0	--	14.0	18.5	--	15.0	20.5	--	18.0	21.5	--	18.5	21.5	--	19.0	20.5	--	19.0
21	18.0	--	14.5	19.0	--	16.0	19.0	--	17.0	20.5	--	18.0	22.5	--	20.5	20.0	--	18.5
22	17.5	--	14.0	19.0	--	16.0	21.0	--	16.5	22.0	--	18.0	22.5	--	20.5	19.5	--	18.0
23	18.5	--	14.0	18.0	--	15.5	22.0	--	18.0	22.5	--	19.5	22.5	--	19.5	19.5	--	17.0
24	19.0	--	14.5	18.0	--	15.5	23.0	--	19.5	22.5	--	19.5	23.0	--	20.0	20.0	--	17.5
25	17.5	--	13.5	19.5	--	16.0	23.0	--	20.0	23.0	--	19.5	23.0	--	21.0	19.0	--	17.5
26	17.0	--	13.5	20.5	--	16.5	23.0	--	19.5	23.0	--	20.0	22.5	--	19.5	19.0	--	18.0
27	17.0	--	13.0	19.5	--	17.0	24.0	--	19.5	23.0	--	20.5	22.5	--	19.5	19.5	--	18.5
28	17.5	--	14.0	17.6	--	15.5	24.0	--	21.0	23.0	--	20.5	23.5	--	20.5	19.0	--	18.5
29	17.5	--	13.5	17.0	--	15.0	22.5	--	20.5	22.5	--	20.0	24.0	--	21.0	19.5	--	18.5
30	18.5	--	14.0	18.5	--	15.5	21.0	--	19.0	22.5	--	20.0	24.5	--	21.5	19.5	--	18.0
31	--	--	--	19.0	--	16.0	--	--	--	21.0	--	20.0	25.0	--	22.0	--	--	--
MONTH	19.0	--	10.5	23.0	--	14.5	24.0	--	14.5	23.0	--	18.0	25.0	--	17.5	23.5	--	17.0

11180500 DRY CREEK AT UNION CITY, CA

LOCATION.--Lat 37°36'22", long 122°01'22", in Arroyo de la Alameda Grant, Alameda County, on right bank 900 ft (274 m) downstream from bridge on State Highway 238 in Decoto District in Union City, and 1.7 mi (2.7 km) upstream from mouth.

DRAINAGE AREA.--9.39 mi^2 (24.32 km^2), revised.

PERIOD OF RECORD.--October 1916 to September 1919 (published as "near Decoto"), April 1959 to current year.

REVISED RECORDS.--WSP 1929: Drainage area. WSP 2129: 1962(M), 1968(P), 1965(P).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 85.12 ft (25.945 m) above mean sea level. Prior to Apr. 1, 1959, at site 1.4 mi (2.3 km) downstream at different datum.

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

AVERAGE DISCHARGE.--20 years, 2.05 ft^3/s (0.058 m^3/s), 1,490 acre-ft/yr (1.84 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 930 ft^3/s (26.3 m^3/s) Oct. 13, 1962, gage height, 5.27 ft (1.606 m) from outside gage, from rating curve extended above 140 ft^3/s (3.96 m^3/s) on basis of slope-area measurement of maximum flow; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3.8 ft^3/s (0.11 m^3/s) Oct. 29, gage height, 1.72 ft (0.524 m), no peak above base of 40 ft^3/s (1.1 m^3/s); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	.27	0				0	0
2	0	0	0	0	0	.61	0				0	0
3	0	0	0	0	0	.67	0				0	0
4	0	0	0	0	0	.24	0				0	0
5	0	0	0	0	0	.07	0				0	0
6	0	0	0	0	0	.01	0				0	0
7	0	0	0	0	0	0	.04				0	0
8	0	0	0	0	.02	0	.05				0	0
9	.03	.02	0	.01	0	0	0				0	0
10	.06	0	0	0	0	0	0				0	0
11	0	0	0	0	0	0	0				0	0
12	0	0	0	0	0	0	0				0	0
13	0	0	0	0	.01	0	0				0	0
14	0	0	0	0	0	0	0				0	0
15	0	0	0	0	0	0	0				.01	0
16	0	0	0	0	0	0	0				0	0
17	0	0	0	0	0	0	0				0	0
18	0	0	0	0	0	.01	0				.02	0
19	0	0	0	0	0	0	0				.01	0
20	0	0	0	0	0	0	0				0	0
21	0	.10	.01	0	0	0	0				0	0
22	0	0	0	0	0	0	0				0	0
23	0	0	0	0	0	0	0				0	0
24	0	0	0	0	0	0	0				0	0
25	0	0	0	0	0	0	0				0	0
26	.13	0	0	0	0	0	0				0	0
27	0	0	0	0	0	0	0				0	0
28	0	0	0	0	0	0	0				0	.05
29	.08	0	0	0	.33	0	0				0	0
30	.08	0	0	0	---	0	0				0	.01
31	0	---	0	0	---	0	---		---		0	---
TOTAL	.38	.12	.01	.01	.36	1.88	.09	0	0	0	.04	.06
MEAN	.012	.004	.0003	.0003	.012	.061	.003	0	0	0	.001	.002
MAX	.13	.10	.01	.01	.33	.67	.05	0	0	0	.02	.05
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	.8	.2	.02	.02	.7	3.7	.2	0	0	0	.08	.1

CAL YR 1975 TOTAL 660.87 MEAN 1.81 MAX 73 MIN 0 AC-FT 1310
WTR YR 1976 TOTAL 2.95 MEAN .008 MAX .67 MIN 0 AC-FT 5

11180700 PATTERSON CREEK AT UNION CITY, CA

LOCATION.--Lat 37°55'09", long 122°02'50", in Potrero de Los Cerritos Grant, Alameda County, on right bank 0.1 mi (0.2 km) downstream from effluence from Alameda Creek, 0.2 mi (0.3 km) upstream from bridge on State Highway 17 (Nimitz Freeway), and 2.0 mi (3.2 km) southwest of Decoto District in Union City.

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

GAGE.--Water-stage recorder. Datum of gage is 4.13 ft (1.259 m) above mean sea level. Prior to Oct. 26, 1966, at site 0.2 mi (0.3 km) downstream at same datum.

REMARKS.--Records fair. This stream is a distributary of Alameda Creek. (See REMARKS for Alameda Creek near Niles). Diversion by Alameda County Water District to percolation ponds between station near Niles and this station; additional percolation to ground water by placing check dams in channel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,500 ft^3/s (297 m^3/s) Feb. 1, 1963, gage height, 20.4 ft (6.22 m) from floodmarks; no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 998 ft^3/s (28.3 m^3/s) Mar. 2, gage height, 7.93 ft (2.417 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	.02	.01	.09	67	.05		0	.52		0
2	0	0	.02	.01	.05	186	.05		0	.55		0
3	0	0	.03	.01	.05	77	.11		0	.55		0
4	0	0	.03	.01	.09	.62	.04		0	.57		0
5	0	0	.03	.02	.14	.09	.03		0	.64		0
6	0	0	.02	.02	.07	.08	1.6		0	.67		0
7	0	0	.02	.02	.09	0	3.9		0	.54		0
8	0	0	.02	.02	1.3	.72	8.9		0	.13		0
9	0	0	.03	.13	.42	8.7	7.0		0	.02		0
10	0	.30	.03	.13	.11	.56	.88		0	0		0
11	0	.09	.03	6.6	.14	.08	.25		0	0		0
12	0	.02	.05	2.0	.14	.02	.04		0	0		0
13	0	.01	.03	1.4	.55	.01	.04		0	0		0
14	0	.01	.02	3.4	.44	0	.01		0	0		0
15	0	.03	.02	.82	.20	0	0		0	0		0
16	0	.07	.03	.17	.07	.04	0		0	0		0
17	0	.02	.03	.28	.05	.04	.01		0	0		0
18	0	.01	.04	2.0	.05	.37	.05		0	0		0
19	0	.02	.04	2.6	.38	.09	.01		0	0		0
20	0	.02	.03	6.6	.09	.03	.03		.08	0		0
21	0	.03	.03	2.8	.07	0	.02		.19	0		0
22	0	.02	.08	1.7	.03	0	.02		.23	0		0
23	0	.02	.02	4.6	.03	.01	.01		.26	0		0
24	.80	.01	.01	3.0	.05	0	0		.33	0		0
25	.02	.02	.01	6.8	.05	.04	0		.40	0		0
26	.35	.02	.01	9.6	.11	.04	0		.44	0		0
27	.09	.02	0	2.4	.24	.01	0		.47	0		0
28	.04	.02	0	.33	.38	.02	0		12	0		21
29	.02	.02	0	.11	15	.02	0		.50	0		58
30	.28	.02	.01	.07	---	.03	0		.49	0		0
31	.01	---	.01	.09	---	.03	---		---	0		---
TOTAL	1.61	.80	.75	57.75	20.48	341.65	23.05	0	15.39	4.19	0	79
MEAN	.052	.027	.024	1.86	.71	11.0	.77	0	.51	.14	0	2.63
MAX	.80	.30	.08	9.6	15	186	8.9	0	12	.67	0	58
MIN	0	0	0	.01	.03	0	0	0	0	0	0	0
AC-FT	3.2	1.6	1.5	115	41	678	46	0	31	8.3	0	157

CAL YR 1975 TOTAL 16359.74 MEAN 44.8 MAX 1910 MIN 0 AC-FT 32450
WTR YR 1976 TOTAL 544.67 MEAN 1.49 MAX 186 MIN 0 AC-FT 1080

11181000 SAN LORENZO CREEK AT HAYWARD, CA

LOCATION.--Lat 37°41'11", long 122°03'44", in San Lorenzo Grant, Alameda County, on right bank at bridge on B Street, just outside city limits of Hayward, 0.5 mi (0.8 km) downstream from Crow Creek, and 0.9 mi (1.4 km) downstream from Don Castro Dam.

DRAINAGE AREA.--37.5 mi^2 (97.1 km^2).

PERIOD OF RECORD.--October 1939 to September 1940, October 1946 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1315-B: 1947(M), 1949(M). WSP 1345: 1940(M). WSP 1715: 1947.

GAGE.--Water-stage recorder and concrete control (control ineffective since 1952 due to gravel fill). Datum of gage is 133.16 ft (40.587 m) above mean sea level. January to September 1940, nonrecording gage on bridge at present site and datum.

REMARKS.--Records fair. Flow partly regulated by Cull Creek Reservoir beginning in October 1962, capacity, 310 acre-ft (382,000 m^3) and Don Castro Reservoir 0.9 mi (1.4 km) upstream beginning in Janaury 1965, capacity, 380 acre-ft (469,000 m^3). A few very small diversions above station for irrigation.

AVERAGE DISCHARGE.--31 years, 14.7 ft^3/s (0.416 m^3/s), 10,650 acre-ft/yr (13.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,460 ft^3/s (211 m^3/s) Oct. 13, 1962, gage height, 19.73 ft (6.014 m) from floodmarks, from rating curve extended above 2,700 ft^3/s (76.5 m^3/s) on basis of slope-area measurement of maximum flow; maximum gage height, 20.82 ft (6.346 m), from floodmarks, Dec. 22, 1955; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 179 ft^3/s (5.07 m^3/s) Oct. 29, gage height, 6.50 ft (1.981 m), no peak above base of 350 ft^3/s (9.9 m^3/s); maximum gage height, 8.03 ft (2.448 m) Sept. 28, backwater from temporary dam and culvert 500 ft (152 m) downstream; no flow July 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.87	.97	.97	3.9	1.5	6.3	1.2	.26	.10	.02	.06	.03
2	1.3	.66	1.7	2.4	1.4	18	1.2	.26	.08	.01	.01	.03
3	.96	.60	1.8	1.8	1.7	5.5	1.4	.23	.08	0	.01	.05
4	1.0	1.1	1.4	.60	3.1	2.6	1.4	.23	.08	.12	.01	.03
5	.70	.54	8.3	.73	7.1	1.9	1.3	.30	.13	.06	.01	.04
6	1.7	.43	28	.73	5.1	1.5	1.6	.34	.13	.04	.03	.06
7	3.9	1.2	13	.73	3.9	1.4	2.7	.30	.13	.04	.03	.05
8	1.5	1.5	5.5	.73	12	1.5	5.6	.26	.13	.04	.04	.02
9	6.7	2.0	6.5	7.1	5.1	1.4	2.2	.23	.11	.03	.04	.02
10	14	4.3	4.5	.88	1.2	1.4	2.5	.19	.37	.04	.04	.03
11	14	.97	.88	.48	.43	1.3	2.5	.16	.17	.03	.04	.03
12	1.8	.39	3.4	.43	.43	1.3	3.4	.10	.14	.06	.04	.03
13	3.2	.39	.97	.66	4.8	1.1	1.9	.08	.11	.06	.10	.03
14	1.8	.34	.80	.73	11	1.2	1.3	.01	.08	.03	.15	.03
15	2.3	.66	1.1	.88	9.6	1.3	1.2	.06	.05	.03	2.6	.03
16	1.9	.97	1.9	.97	6.0	1.2	1.1	.04	.03	.04	.16	.04
17	1.3	.48	.66	.66	5.5	1.4	1.1	.03	.06	.03	.22	.04
18	2.0	.26	2.8	1.7	5.1	2.0	1.4	.01	.05	.06	4.4	.04
19	1.6	.43	.66	2.1	15	1.8	1.1	.03	.08	.08	2.8	.06
20	1.1	.26	.73	1.2	7.1	1.4	.66	.01	.05	.06	.23	.39
21	1.6	.16	1.2	1.1	5.1	1.2	.60	.04	.07	.06	.10	1.4
22	1.0	.23	1.9	1.2	4.3	1.1	.66	.04	.08	.06	1.2	.02
23	1.6	.39	.88	1.5	4.5	1.2	.66	.03	.07	.10	.37	.03
24	.54	.34	.88	1.7	4.7	1.1	.48	.03	.14	.08	.07	.03
25	1.1	.48	.88	1.7	4.3	1.2	.48	.04	.04	.04	.06	.03
26	10	.60	.80	1.8	5.8	1.1	.43	.06	.04	.03	.05	.68
27	2.2	1.1	.80	1.7	5.1	1.1	.34	.08	.06	.01	.44	2.1
28	1.4	1.1	.73	1.8	5.3	1.2	.34	.06	.06	.01	.09	19
29	7.3	1.1	.88	1.8	40	1.1	.30	.06	.09	.03	.05	2.3
30	26	.88	4.7	1.7	---	1.0	.66	.06	.05	.01	.05	3.2
31	2.0	---	4.7	1.5	---	1.2	---	.23	---	.13	.04	---
TOTAL	118.37	24.83	103.92	46.91	186.16	68.0	41.71	3.86	2.86	1.44	13.54	29.87
MEAN	3.82	.83	3.35	1.51	6.42	2.19	1.39	.12	.095	.047	.44	1.00
MAX	26	4.3	28	7.1	40	18	5.6	.34	.37	.13	4.4	19
MIN	.54	.16	.66	.43	.43	1.0	.30	.01	.03	0	.01	.02
AC-FT	235	49	206	93	369	135	83	7.7	5.7	2.9	27	59

CAL YR 1975 TOTAL 4570.14 MEAN 12.5 MAX 337 MIN .01 AC-FT 9060
WTR YR 1976 TOTAL 641.47 MEAN 1.75 MAX 40 MIN 0 AC-FT 1270

11181008 CASTRO VALLEY CREEK AT HAYWARD, CA

LOCATION.--Lat 37°40'48", long 122°04'46", in San Lorenzo (Castro) Grant, Alameda County, on left bank at Hayward, 700 ft (213 m) upstream from mouth, and 700 ft (213 m) downstream from small left-bank tributary.

DRAINAGE AREA.--5.51 mi^2 (14.27 km^2).

PERIOD OF RECORD.--October 1971 to current year (seasonal records only, water years 1975 to current year).

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 100 ft (30 m), from topographic map. Recording rain gages at Sydney School, altitude, 400 ft (122 m) at site 2.2 mi (3.5 km) northwest of gaging station and at Proctor School, altitude, 420 ft (128 m) at site 2.6 mi (4.2 km) north of gaging station.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 665 ft^3/s (18.8 m^3/s) Feb. 27, 1973, gage height, 7.15 ft (2.179 m), from rating curve extended above 53 ft^3/s (1.50 m^3/s) on basis of slope-area measurements at gage heights 3.92 ft (1.195 m) and 6.02 ft (1.835 m); minimum daily, 0.10 ft^3/s (0.003 m^3/s) Oct. 1-3, 11, 15-20, 1971.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft^3/s (11 m^3/s) and maximum (*), from rating curve extended as explained above:

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 10	2130	403	11.4	4.83	1.472
Oct. 29	2330	*541	15.3	5.92	1.804

Minimum daily discharge, 0.21 ft^3/s (0.006 m^3/s Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.27	.76	.39	.23	.39	6.2	.48					
2	.27	1.1	.38	.24	.36	30	.51					
3	.82	.55	.39	.31	.33	2.1	.65					
4	.81	1.2	.38	.34	5.4	.94	.56					
5	.31	.48	.40	.43	1.8	.70	.58					
6	.30	.42	.43	.28	.39	.65	1.5					
7	.25	.48	.42	.27	.30	.65	3.9					
8	.21	.46	.40	.25	9.0	.66	9.4					
9	21	7.2	.39	7.8	.54	.55	3.3					
10	32	7.5	.37	.37	.33	.52	4.8					
11	1.9	.64	.36	.31	.30	.47	3.0					
12	.51	.55	4.3	.30	.27	.49	5.0					
13	.41	.48	.36	.29	6.1	.51	.90					
14	.37	.46	.33	.27	3.2	.54	.56					
15	.34	2.6	.33	.27	4.2	.48	.56					
16	.33	3.8	.33	.28	.54	.46	.50					
17	.33	.52	.33	.33	.46	.50	.52					
18	.33	.48	.33	.34	.51	4.2	.70					
19	.31	.43	.33	.27	6.7	.54	.42					
20	.31	.47	.45	.25	.40	.60	.33					
21	.28	.43	2.5	.46	.37	.50	.31					
22	.28	.42	1.5	.27	.36	.46	.35					
23	.25	.42	.30	.24	.34	.46	.35					
24	.23	.42	.30	.27	.34	.46	.30					
25	.27	.42	.30	.30	.30	.46	.27					
26	36	.43	.30	.27	.31	.46	.25					
27	.80	.46	.29	.24	.31	.46	.23					
28	.45	.41	.30	.33	.31	.46	.23					
29	26	.39	.32	.33	46	.46	.24					
30	27	.38	.27	.30	---	.46	.40					
31	1.2	---	.25	.36	---	.48	---					
TOTAL	154.14	34.76	18.03	16.80	90.16	56.88	41.10					
MEAN	4.97	1.16	.58	.54	3.11	1.83	1.37					
MAX	36	7.5	4.3	7.8	46	30	9.4					
MIN	.21	.38	.25	.23	.27	.46	.23					
AC-FT	306	69	36	33	179	113	82					
(†)	--	.56	.32	.33	2.23	1.11	1.12					
(‡)	--	.68	.22	.27	2.27	1.13	1.16					

† Precipitation, in inches at Proctor School.
‡ Precipitation, in inches at Sydney School.
NOTE.--No gage-height record Mar. 21 to Apr. 30.

11181040 SAN LORENZO CREEK AT SAN LORENZO, CA

LOCATION.--Lat 37°41'03", long 122°08'20", in San Lorenzo (Soto) Grant, Alameda County, on left bank 400 ft (122 m) downstream from Washington Avenue bridge in San Lorenzo, and 1.6 mi (2.6 km) upstream from mouth.

DRAINAGE AREA.--44.6 mi^2 (115.5 km^2).

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 6.13 ft (1.868 m) above mean sea level (levels by Alameda County Flood Control and Water Conservation District).

REMARKS.--Records fair. Flow partly regulated by Cull Creek Reservoir beginning in October 1962, capacity, 310 acre-ft (382,000 m^3) and Don Castro Reservoir 7 mi (11 km) upstream beginning in January 1965, capacity, 380.acre-ft (469,000 m^3). A few very small diversions above station.

AVERAGE DISCHARGE.--9 years, 21.8 ft^3/s (0.617 m^3/s), 15,790 acre-ft/yr (19.5 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,960 ft^3/s (112 m^3/s) Apr. 1, 1974, gage height, 8.22 ft (2.505 m), from rating curve extended above 1,200 ft^3/s (34.0 m^3/s); minimum daily, 0.05 ft^3/s (0.001 m^3/s) Oct. 23, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 891 ft^3/s (25.2 m^3/s) Oct. 29 (2300 hrs), gage height, 5.30 ft (1.615 m), peak above base of 850 ft^3/s (24 m^3/s); minimum daily, 0.26 ft^3/s (0.007 m^3/s) July 23, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	6.6	1.7	3.6	3.1	28	1.1	1.4	.64	.59	.55	1.1
2	4.8	5.3	1.8	3.1	2.6	53	1.1	1.8	.64	.69	.50	1.1
3	3.4	3.8	1.8	3.0	2.3	18	1.8	1.6	.64	.69	.55	1.0
4	2.6	5.1	1.9	2.8	9.7	4.0	1.1	1.7	.64	.64	.55	1.0
5	2.0	3.8	2.2	3.0	5.7	3.8	1.2	1.7	.75	.75	.55	1.0
6	2.8	3.1	11	3.1	2.0	2.3	1.5	2.0	.81	.93	.69	.93
7	6.1	3.4	8.5	4.2	1.8	2.3	6.6	1.9	.81	.87	.69	.93
8	3.0	4.4	5.5	3.3	14	2.4	11	2.1	1.0	.93	.75	.87
9	50	13	6.3	14	2.6	2.3	1.7	2.0	.81	1.0	.81	.93
10	80	18	4.6	2.4	1.9	2.3	5.5	2.0	1.2	1.1	.81	.93
11	25	1.1	2.1	2.0	1.7	2.4	2.2	2.0	.59	1.1	.72	.93
12	2.2	1.1	10	2.0	1.7	2.3	5.5	1.8	.59	1.1	.69	1.1
13	3.8	1.4	2.0	2.2	12	2.3	1.5	1.7	.64	1.1	.64	1.1
14	2.1	1.5	2.0	2.2	9.9	2.4	1.1	1.6	.69	1.2	2.0	1.1
15	2.6	4.4	2.2	2.3	11	2.3	1.1	1.5	.87	1.4	5.3	1.0
16	1.8	5.4	2.0	2.2	2.6	2.2	.93	1.6	1.2	1.2	1.1	.93
17	2.2	1.0	2.0	2.0	2.4	2.4	.93	1.6	1.1	.75	2.0	.93
18	4.2	1.2	2.4	2.3	2.3	8.5	2.2	1.6	1.0	1.1	8.2	.93
19	1.7	1.4	2.0	2.4	14	2.3	.81	1.7	.93	.81	6.1	1.3
20	3.4	1.5	2.2	2.3	2.6	1.9	.81	2.0	.93	.64	1.1	1.4
21	1.9	1.4	2.8	2.3	2.3	1.7	.93	1.9	.87	.35	.87	1.4
22	2.0	1.5	6.8	2.3	2.2	1.7	1.4	1.8	1.1	.32	2.1	1.5
23	1.5	1.6	2.0	2.3	2.2	1.5	1.2	1.8	1.0	.26	1.1	1.7
24	1.7	1.6	2.0	2.4	2.3	1.5	1.2	2.0	1.1	.26	1.1	1.8
25	1.1	1.6	2.0	2.6	2.3	1.5	1.2	2.0	1.4	.29	1.1	1.9
26	65	1.5	2.0	2.8	2.4	1.3	1.1	1.6	1.5	.29	1.1	2.0
27	4.4	1.7	2.2	2.8	2.3	1.2	1.1	1.6	1.5	.46	1.1	5.0
28	1.6	1.7	2.2	2.8	2.4	1.4	1.2	1.6	1.7	.46	1.2	30
29	52	1.7	2.4	2.8	142	1.2	1.3	1.5	1.0	.64	1.2	5.2
30	75	1.7	2.8	2.8	---	1.1	1.7	1.4	.55	.59	1.2	6.1
31	8.5	---	3.8	3.0	---	1.6	---	1.3	---	.50	1.2	---
TOTAL	424.7	102.5	105.2	93.3	266.3	163.1	62.01	53.8	28.20	23.01	47.57	77.11
MEAN	13.7	3.42	3.39	3.01	9.18	5.26	2.07	1.74	.94	.74	1.53	2.57
MAX	80	18	11	14	142	53	11	2.1	1.7	1.4	8.2	30
MIN	1.1	1.0	1.7	2.0	1.7	1.1	.81	1.3	.55	.26	.50	.87
AC-FT	842	203	209	185	528	324	123	107	56	46	94	153

CAL YR 1975 TOTAL 7471.09 MEAN 20.5 MAX 385 MIN .50 AC-FT 14820
WTR YR 1976 TOTAL 1446.80 MEAN 3.95 MAX 142 MIN .26 AC-FT 2870

11181390 WILDCAT CREEK AT VALE ROAD, AT RICHMOND, CA

LOCATION.--Lat 37°57'12", long 122°20'14", in San Pablo Grant, Contra Costa County, on left bank, at upstream side of Vale Road bridge at Richmond, 3.6 mi (5.8 km) upstream from mouth.

DRAINAGE AREA.--7.79 mi^2 (20.18 km^2).

PERIOD OF RECORD.--October 1975 to September 1976.

GAGE.--Water-stage recorder. Datum of gage is 65.56 ft (19.983 m) above mean sea level.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Minor storage in Lake Anza and Jewel Lake. No diversion above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26 ft^3/s (0.74 m^3/s) Feb. 29, gage height, 2.63 ft (0.802 m), no peak above base of 150 ft^3/s (4.2 m^3/s); minimum, 0.05 ft^3/s (0.001 m^3/s) May 28, June 16, 18-21, Sept. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.18	.55	.28	.18	.21	4.5	.36	.41	.06	.07	.15	.12
2	.19	.48	.28	.18	.20	10	.35	.17	.06	.08	.13	.13
3	.21	.32	.28	.18	.16	4.8	.30	.12	.06	.10	.10	.14
4	.23	.24	.32	.18	.23	1.2	.31	.10	.07	.09	.10	.14
5	.25	.20	.35	.23	.41	.81	.31	.10	.06	.09	.10	.14
6	.50	.18	.35	.25	.30	.58	.37	.11	.07	.07	.13	.16
7	.30	.15	.35	.26	.22	.54	2.2	.12	.06	.07	.10	.19
8	.40	.18	.31	.18	.28	.50	1.5	.10	.08	.07	.16	.12
9	9.0	.18	.35	.76	.26	.49	.63	.09	.09	.08	.14	.06
10	8.0	1.7	.35	.40	.25	.52	1.6	.09	.09	.06	.18	.05
11	4.5	.30	.29	.26	.21	.44	1.3	.08	.08	.08	.17	.06
12	1.7	.20	2.0	.23	.22	.43	.72	.09	.07	.07	.13	.07
13	.58	.15	.33	.23	.35	.37	.50	.09	.08	.10	.16	.08
14	.35	.15	.23	.23	.69	.41	.42	.06	.08	.07	.13	.08
15	.32	.15	.17	.23	.49	.41	.41	.07	.07	.07	1.7	.07
16	.25	1.2	.15	.22	.36	.46	.40	.07	.05	.08	.06	.07
17	.28	.64	.15	.20	.30	.53	.44	.07	.06	.10	.07	.07
18	.18	.25	.15	.21	.48	.85	.36	.07	.05	.11	1.9	.07
19	.20	.18	.16	.20	.91	.55	.36	.10	.05	.09	.12	.06
20	.26	.20	.18	.18	.44	.50	.39	.10	.05	.07	.09	.07
21	.17	.23	1.2	.20	.30	.43	.35	.09	.05	.06	.09	.07
22	.20	.23	1.1	.17	.25	.40	.35	.10	.06	.08	.13	.08
23	.17	.25	.46	.18	.24	.39	.39	.09	.06	.08	.14	.07
24	.22	.32	.25	.20	.23	.39	.38	.08	.06	.09	.13	.09
25	.50	.30	.23	.19	.24	.36	.37	.06	.07	.12	.10	.10
26	3.0	.29	.19	.18	.27	.37	.32	.06	.08	.10	.12	.12
27	.80	.21	.18	.22	.27	.35	.24	.07	.08	.08	.12	.16
28	.60	.29	.18	.22	.30	.35	.29	.05	.09	.08	.11	1.1
29	3.2	.29	.18	.23	9.5	.34	.20	.06	.09	.08	.10	.07
30	4.5	.28	.18	.53	---	.31	.59	.06	.08	.08	.11	.07
31	1.5	---	.18	.25	---	.28	---	.06	---	.09	.11	---
TOTAL	42.74	10.29	11.36	7.56	18.57	32.86	16.71	2.99	2.06	2.56	7.08	3.88
MEAN	1.38	.34	.37	.24	.64	1.06	.56	.097	.069	.083	.23	.13
MAX	9.0	1.7	2.0	.76	9.5	10	2.2	.41	.09	.12	1.9	1.1
MIN	.17	.15	.15	.17	.16	.28	.20	.05	.05	.06	.06	.05
AC-FT	85	20	23	15	37	65	33	5.9	4.1	5.1	14	7.7

WTR YR 1976 TOTAL 158.66 MEAN .43 MAX 10 MIN .05 AC-FT 315

NOTE.--No gage-height record Oct. 1 to Nov. 5.

11182030 RHEEM CREEK AT SAN PABLO, CA

LOCATION.--Lat 37°58'38", long 122°21'10", in San Pablo Grant, Contra Costa County, on left bank 50 ft (15 m) downstream from Santa Fe Railway bridge at San Pablo, and 0.7 mi (1.1 km) upstream from mouth.

DRAINAGE AREA.--1.49 mi^2 (3.86 km^2).

PERIOD OF RECORD.--December 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 13.63 ft (4.154 m) above mean sea level (Corps of Engineers bench mark). Prior to Aug. 13, 1965, at site 0.2 mi (0.3 km) upstream at datum 7.74 ft (2.359 m) higher.

REMARKS.--Records good except those below 10 ft^3/s (0.28 m^3/s), which are fair. Low flow affected by return flow from industrial waste, leakage, and infrequent releases from off-stream North Reservoir.

AVERAGE DISCHARGE.--15 years (water years 1962-76),1.40 ft^3/s (0.040 m^3/s), 1,010 acre-ft/yr (1.25 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 477 ft^3/s (13.5 m^3/s) Dec. 20, 1969, gage height, 6.95 ft (2.118 m), from rating curve extended above 150 ft^3/s (4.25 m^3/s); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 99 ft^3/s (2.80 m^3/s) Oct. 9, gage height, 3.86 ft (1.177 m), no peak above base of 150 ft^3/s (4.2 m^3/s); no flow several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.37	.06	0	.29	2.1	1.5	1.2	.33	.52	.01	.05
2	.01	.30	.10	0	.29	18	1.4	1.4	.60	.26	.01	.13
3	.03	.23	.15	0	.23	1.1	.17	1.5	.64	.12	.36	.03
4	.04	.18	.04	0	.10	.29	.97	1.5	.83	.04	.01	.70
5	1.4	.15	.05	.01	5.2	.11	.86	1.7	.07	.02	0	.08
6	.54	.09	.03	.01	1.9	.10	.36	1.6	.23	.31	.09	.02
7	.06	.12	.01	.03	.08	.07	6.5	.73	.40	.12	.01	.32
8	0	.12	.07	.01	1.3	.06	3.6	.40	.58	.30	.02	.42
9	19	.28	.01	4.1	.23	.05	.11	.37	.98	.23	.32	.12
10	10	2.7	.25	.16	.13	.09	5.2	.31	.01	.02	.05	.38
11	2.7	.14	.03	.25	.05	.11	2.1	.29	.26	.01	.03	.09
12	1.1	.11	2.8	.12	.16	.03	.30	.87	.32	0	1.1	.06
13	.44	.06	.04	.02	2.9	.05	.04	.65	.12	.20	1.1	.05
14	.30	.07	.01	.05	3.7	.06	.01	.54	.46	.05	1.9	.02
15	.30	2.1	.01	.03	1.9	.10	.01	.39	.54	.14	5.7	.15
16	.21	2.2	.01	.03	.89	.14	.01	.75	.78	0	.87	.41
17	.33	.09	.16	.07	.25	.10	.52	.56	.39	.01	1.2	.66
18	.16	.01	.01	.09	.72	2.9	.61	.14	.46	.07	6.1	.35
19	.26	.01	.14	.25	4.5	.20	.71	.37	.63	.32	1.6	.07
20	.30	.01	.03	.07	.28	.06	.65	.20	.26	.07	.01	.05
21	.10	.06	3.7	.11	.20	.06	.08	.84	.34	.64	0	.27
22	.13	.02	2.4	.24	.22	.07	.01	.44	.37	.85	.06	.05
23	.03	.09	.55	.18	.31	.02	.14	.27	.91	0	0	.06
24	.11	.07	.05	.25	.29	.27	.08	.62	2.0	.11	.01	.03
25	.18	.16	.01	.39	.24	.78	.05	.85	1.4	0	.03	.16
26	5.3	.14	.02	.55	.05	.23	.09	.75	1.7	.34	.17	.10
27	.48	.03	.01	.13	.07	1.0	.18	.59	1.2	0	.03	.60
28	.29	.03	.01	.11	.36	1.1	.13	.55	1.1	.30	.06	8.7
29	4.0	.01	.13	.15	15	1.4	.27	.50	1.1	0	.02	.39
30	8.6	.01	.07	.39	---	1.4	1.1	.10	.68	0	.01	.32
31	.57	---	.06	.25	---	1.4	---	.06	---	.01	.28	---
TOTAL	56.99	9.96	11.02	8.05	41.84	33.45	27.76	21.04	19.69	5.06	21.16	14.84
MEAN	1.84	.33	.36	.26	1.44	1.08	.93	.68	.66	.16	.68	.49
MAX	19	2.7	3.7	4.1	15	18	6.5	1.7	2.0	.85	6.1	8.7
MIN	0	.01	.01	0	.05	.02	.01	.06	.01	0	0	.02
AC-FT	113	20	22	16	83	66	55	42	39	10	42	29

CAL YR 1975 TOTAL 455.70 MEAN 1.25 MAX 40 MIN 0 AC-FT 904
WTR YR 1976 TOTAL 270.86 MEAN .74 MAX 19 MIN 0 AC-FT 537

11182100 PINOLE CREEK AT PINOLE, CA

LOCATION.--Lat 37°58'21", long 122°14'43", in Pinole Grant, Contra Costa County, on left bank 0.2 mi (0.3 km) downstream from county bridge on Pinole Valley Road, 0.8 mi (1.3 km) upstream from Pinole city boundary.

DRAINAGE AREA.--10.0 mi^2 (25.9 km^2).

PERIOD OF RECORD.--December 1938 to 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.

REMARKS.--No storage or diversion above station except for minor stock ponds; some inflow from ground-water withdrawals during irrigation season.

COOPERATION.--Records furnished by East Bay Municipal Utility District and reviewed by Geological Survey.

AVERAGE DISCHARGE.--37 years (water years 1940-76), 3.81 ft^3/s (0.108 m^3/s), 2,760 acre-ft/yr (3.40 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,660 ft^3/s (47.0 m^3/s) Apr. 2, 1958, gage height, 11.63 ft (3.545 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5.7 ft^3/s (0.16 m^3/s) Feb. 29, gage height, 1.86 ft (0.567 m), no peak above base of 200 ft^3/s (5.7 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.14	.16	.17	.36	.55	.08	.01				
2	.02	.12	.17	.17	.36	2.1	.08	0				
3	.12	.12	.17	.18	.36	.67	.08	0				
4	.19	.14	.17	.19	.37	.34	.10	0				
5	.10	.14	.17	.19	.44	.27	.12	0				
6	.10	.14	.14	.19	.53	.25	.14	0				
7	.21	.14	.17	.19	.32	.23	.14	0				
8	.23	.19	.17	.19	.27	.23	.25	0				
9	.31	.14	.17	.32	.32	.23	.17	0				
10	.63	.17	.17	.29	.25	.21	.19	0				
11	.21	.14	.19	.25	.21	.21	.23	0				
12	.17	.12	.25	.25	.21	.19	.16	0				
13	.14	.10	.23	.23	.21	.17	0	0				
14	.12	.10	.19	.23	.27	.17	.09	0				
15	.08	.12	.17	.21	.27	.17	.06	0				
16	.06	.17	.17	.21	.23	.17	.04	0				
17	.06	.14	.17	.23	.23	.17	.04	0				
18	.06	.12	.17	.23	.21	.17	.04	0				
19	.06	.12	.17	.21	.30	.18	.04	0				
20	.03	.17	.17	.19	.25	.17	.04	0				
21	.01	.17	.19	.19	.21	.24	.02	0				
22	.01	.17	.32	.19	.21	.29	.02	0				
23	0	.19	.23	.19	.19	.27	.03	0				
24	.01	.14	.21	.19	.19	.23	.02	0				
25	.02	.14	.21	.19	.17	.23	0	0				
26	.27	.10	.21	.19	.17	.31	0	0				
27	.19	.14	.21	.21	.17	.34	0	0				
28	.14	.14	.21	.21	.17	.24	0	0				
29	.13	.12	.19	.21	1.7	.21	0	0				
30	.44	.14	.19	.23	---	.19	.01	0				
31	.19	---	.17	.31	---	.13	---	0	---			---
TOTAL	4.31	4.19	5.88	6.63	9.15	9.53	2.19	.01	0	0	0	0
MEAN	.14	.14	.19	.21	.32	.31	.073	.0003	0	0	0	0
MAX	.63	.19	.32	.32	1.7	2.1	.25	.01	0	0	0	0
MIN	0	.10	.14	.17	.17	.13	0	0	0	0	0	0
AC-FT	8.5	8.3	12	13	18	19	4.3	.02	0	0	0	0

CAL YR 1975 TOTAL 853.77 MEAN 2.34 MAX 208 MIN 0 AC-FT 1690
WTR YR 1976 TOTAL 41.89 MEAN .11 MAX 2.1 MIN 0 AC-FT 83

11182400 ARROYO DEL HAMBRE AT MARTINEZ, CA

LOCATION.--Lat 38°00'12", long 122°07'44", in Las Juntas Grant, Contra Costa County, on right bank 40 ft (12 m) upstream from D Street Bridge in Martinez.

DRAINAGE AREA.--15.1 mi^2 (39.1 km^2).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 48.33 ft (14.731 m) above mean sea level (levels by Contra Costa County Flood Control District).

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

AVERAGE DISCHARGE.--12 years, 4.17 ft^3/s (0.118 m^3/s), 3,020 acre-ft/yr (3.72 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,960 ft^3/s (55.5 m^3/s) Jan. 18, 1973, gage height, 10.93 ft (3.331 m), from rating curve extended above 540 ft^3/s (15.3 m^3/s) on basis of slope-area measurement at gage height 9.62 ft (2.932 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 47 ft^3/s (1.33 m^3/s) Feb. 29, gage height, 2.73 ft (0.832 m), no peak above base of 150 ft^3/s (4.2 m^3/s); no flow Aug. 25-27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	.15	.15	.15	.23	2.7	.19	.18	.09	.04	.04	.07
2	.12	.19	.19	.15	.23	10	.19	.22	.07	.05	.05	.05
3	.12	.21	.19	.12	.23	2.5	.23	.22	.08	.04	.07	.05
4	.12	.14	.15	.07	.85	1.3	.23	.18	.08	.02	.06	.05
5	.11	.15	.15	.21	2.5	.95	.23	.12	.09	.02	.09	.05
6	.14	.15	.14	.39	1.3	.68	.23	.13	.07	.03	.11	.02
7	.13	.45	.15	.39	.39	.60	.46	.14	.07	.04	.07	.01
8	.19	.24	.15	.53	2.2	.68	1.6	.14	.06	.06	.06	.02
9	.33	.12	.19	1.8	.65	.60	.33	.16	.06	.10	.05	.02
10	4.0	.41	.19	.36	.33	.53	1.7	.18	.15	.12	.04	.03
11	2.3	.17	.19	.28	.28	.44	.46	.24	.18	.27	.04	.06
12	.90	.26	1.1	.28	.28	.49	.39	.23	.07	.21	.04	.08
13	.35	.44	.33	.28	.61	.40	.33	.23	.07	.15	.08	.10
14	.20	.15	.39	.28	.73	.47	.28	.24	.06	.19	.09	.07
15	.15	.19	.68	.26	.57	.51	.23	.19	.06	.24	.15	.06
16	.13	.17	1.1	.25	.39	.46	.19	.20	.06	.31	.03	.06
17	.14	.13	1.2	.26	.33	.46	.19	.19	.06	.38	.07	.05
18	.11	.12	1.3	.28	.29	1.1	.20	.17	.07	.19	.95	.05
19	.09	.12	.39	.24	1.7	.39	.17	.17	.08	.11	.23	.05
20	.08	.15	.28	.23	.46	.28	.16	.17	.08	.22	.07	.05
21	.23	.15	.60	.24	.33	.28	.14	.18	.07	.40	.05	.03
22	.23	.15	1.3	.22	.33	.28	.13	.18	.06	.31	.05	.05
23	.23	.12	.23	.23	.33	.28	.17	.10	.05	.34	.02	.03
24	.23	.12	.19	.23	.33	.28	.12	.10	.05	.23	.02	.03
25	.19	.12	.19	.23	.28	.23	.12	.09	.05	.35	0	.03
26	2.1	.12	.19	.23	.28	.23	.12	.09	.02	.38	0	.05
27	.46	.14	.19	.23	.28	.23	.12	.11	.01	.05	0	.05
28	.39	.15	.19	.23	.28	.23	.17	.09	.02	.05	.01	2.7
29	.59	.12	.19	.23	8.2	.23	.17	.10	.01	.09	.01	.15
30	2.2	.14	.12	.23	---	.23	.19	.09	.04	.06	.03	.07
31	.21	---	.15	.23	---	.19	---	.10	---	.03	.03	---
TOTAL	16.90	5.44	12.15	9.34	25.19	28.23	9.44	4.93	1.99	5.08	2.61	4.19
MEAN	.55	.18	.39	.30	.87	.91	.31	.16	.066	.16	.084	.14
MAX	4.0	.45	1.3	1.8	8.2	10	1.7	.24	.18	.40	.95	2.7
MIN	.08	.12	.12	.07	.23	.19	.12	.09	.01	.02	0	.01
AC-FT	34	11	24	19	50	56	19	9.8	3.9	10	5.2	8.3

CAL YR 1975 TOTAL 1080.86 MEAN 2.96 MAX 187 MIN .08 AC-FT 2140
WTR YR 1976 TOTAL 125.49 MEAN .34 MAX 10 MIN 0 AC-FT 249

11182500 SAN RAMON CREEK AT SAN RAMON, CA

LOCATION.--Lat 37°46'23", long 121°59'37", in sec.8, T.2 S., R.1 W., Contra Costa County, on right bank 0.2 mi (0.3 km) downstream from Bollinger Creek, and 1.0 mi (1.6 km) southwest of San Ramon.

DRAINAGE AREA.--5.89 mi^2 (15.26 km^2).

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

REVISED RECORDS.--WSP 1445: 1953-54(P).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 530 ft (162 m), from topographic map.

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

AVERAGE DISCHARGE.--24 years, 2.86 ft^3/s (0.081 m^3/s), 2,070 acre-ft/yr (2.55 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,600 ft^3/s (45.3 m^3/s) Oct. 13, 1962, gage height, 16.98 ft (5.176 m), from rating curve extended above 90 ft^3/s (2.55 m^3/s) on basis of indirect measurements of maximum flow through culvert at gage heights 12.09 ft (3.685 m) and 16.98 ft (5.176 m); no flow for parts of most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16 ft^3/s (0.45 m^3/s) Feb. 29, gage height, 2.28 ft (0.695 m), no peak above base of 100 ft^3/s (2.8 m^3/s); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.27	.44	.22	.21	.80	.16	.04				
2	.05	.24	.47	.21	.17	1.6	.15	.04				
3	.05	.22	.49	.25	.17	.77	.15	.04				
4	.05	.22	.44	.32	.17	.42	.16	.05				
5	.03	.22	.39	.42	.25	.34	.16	.05				
6	.05	.22	.39	.25	.29	.31	.17	.06				
7	.14	.24	.39	.23	.25	.29	.25	.03				
8	.14	.28	.39	.23	.44	.29	.66	.02				
9	.44	.25	.41	.35	.50	.29	.46	.01				
10	1.3	.66	.44	.34	.25	.25	.30	.01				
11	.89	.27	.44	.25	.21	.25	.34	0				
12	.29	.22	.53	.25	.21	.24	.47	0				
13	.21	.23	.27	.23	.21	.23	.25	0				
14	.15	.24	.24	.22	.39	.25	.20	0				
15	.13	.25	.21	.21	.34	.22	.19	0				
16	.13	.39	.25	.22	.39	.21	.16	0				
17	.14	.28	.25	.25	.34	.21	.22	0				
18	.14	.25	.25	.25	.25	.33	.30	0				
19	.07	.28	.25	.25	.44	.30	.16	0				
20	.03	.33	.25	.26	.29	.23	.14	0				
21	.05	.34	.47	.29	.25	.19	.12	0				
22	.05	.34	.36	.29	.21	.17	.12	0				
23	.05	.34	.26	.27	.21	.21	.13	0				
24	.05	.33	.25	.25	.21	.19	.10	0				
25	.08	.33	.24	.39	.21	.18	.08	0				
26	1.9	.34	.24	.21	.21	.17	.06	0				
27	.41	.44	.24	.21	.21	.18	.05	0				
28	.24	.44	.22	.21	.21	.20	.05	0				
29	.30	.43	.22	.21	3.0	.18	.06	0				
30	2.4	.44	.23	.21	---	.17	.06	0				
31	.38	---	.25	.21	---	.16	---	0	---			---
TOTAL	10.37	9.33	10.17	7.96	10.49	9.83	5.88	.35	0	0	0	0
MEAN	.33	.31	.33	.26	.36	.32	.20	.011	0	0	0	0
MAX	2.4	.66	.53	.42	3.0	1.6	.66	.06	0	0	0	0
MIN	.03	.22	.21	.21	.17	.16	.05	0	0	0	0	0
AC-FT	21	19	20	16	21	19	12	.7	0	0	0	0

CAL YR 1975 TOTAL 1022.94 MEAN 2.80 MAX 75 MIN 0 AC-FT 2030
WTR YR 1976 TOTAL 64.38 MEAN .18 MAX 3.0 MIN 0 AC-FT 128

11183000 SAN RAMON CREEK AT WALNUT CREEK, CA

LOCATION.--Lat 37°52'38", long 122°02'52", in San Ramon Grant, Contra Costa County, on left bank 600 ft (183 m) upstream from Rudgear Road, near south city limits of town of Walnut Creek.

DRAINAGE AREA.--47.9 mi^2 (124.1 km^2).

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

REVISED RECORDS.--WSP 1395: 1953(M).

GAGE.--Water-stage recorder. Concrete control since Dec. 4, 1962. Datum of gage is 146.4 ft (44.62 m) above mean sea level (levels by Corps of Engineers). Prior to Dec. 8, 1971, at site 0.6 mi (1.0 km) downstream at different datum.

REMARKS.--Records good. No regulation; pumping for irrigation above station during periods of low flow.

AVERAGE DISCHARGE.--24 years, 15.7 ft^3/s (0.445 m^3/s), 11,370 acre-ft/yr (14.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,980 ft^3/s (226 m^3/s) Jan. 31, 1963, gage height, 14.40 ft (4.389 m) site and datum then in use, from rating curve extended above 2,200 ft^3/s (62.3 m^3/s) on basis of computed discharge at gage height 13.16 ft (4.011 m); maximum gage height, 14.55 ft (4.435 m) Dec. 23, 1955, site and datum then in use; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 292 ft^3/s (8.27 m^3/s) Feb. 29, gage height, 2.93 ft (0.893 m), no peak above base of 500 ft^3/s (14 m^3/s); minimum daily, 1.3 ft^3/s (0.037 m^3/s) many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	4.8	3.2	2.6	3.2	17	3.1	2.4	3.2	2.8	1.7	1.3
2	1.3	4.4	3.1	2.6	3.4	34	3.1	2.5	2.8	2.6	1.7	1.3
3	1.3	4.0	3.1	2.6	3.2	12	3.1	2.7	2.3	2.4	1.6	1.3
4	1.3	4.0	2.9	2.6	3.1	3.6	3.1	2.9	2.3	2.3	1.6	1.3
5	1.3	4.0	2.9	2.6	3.8	2.8	3.2	2.8	2.3	2.2	1.6	1.3
6	1.3	4.0	2.9	2.5	3.6	2.3	3.2	3.0	2.3	2.1	1.6	1.4
7	1.3	4.4	2.9	2.3	3.6	2.0	4.0	3.2	2.2	2.2	1.6	1.3
8	1.3	4.6	2.9	2.3	9.5	2.0	18	3.4	2.2	1.7	1.6	1.3
9	13	4.8	3.2	7.4	6.6	2.2	5.2	3.5	2.0	1.7	1.6	1.3
10	30	17	3.2	4.8	3.1	2.2	6.6	4.0	2.0	1.7	1.6	1.3
11	29	5.5	3.2	3.8	3.1	2.2	7.2	4.0	1.9	1.8	1.7	1.3
12	7.5	4.0	3.4	3.6	2.8	2.2	9.5	4.0	2.7	2.0	1.6	1.3
13	3.8	3.8	4.0	3.2	2.5	2.0	4.8	4.0	2.6	2.0	1.3	1.3
14	3.4	3.6	3.2	3.2	2.8	2.3	3.1	4.1	2.4	2.0	1.3	1.3
15	3.2	3.2	3.1	3.1	2.9	2.3	2.0	4.6	2.1	2.0	1.9	1.4
16	3.1	3.2	3.1	3.1	2.6	2.9	1.7	4.6	2.0	1.9	2.6	1.5
17	3.1	3.2	2.9	3.1	2.6	3.6	1.7	4.6	1.9	1.7	2.2	1.6
18	2.9	3.2	2.9	3.1	2.3	7.7	1.7	4.6	1.8	1.7	3.3	1.9
19	2.9	3.2	2.9	3.1	5.8	6.6	1.6	4.6	1.7	1.7	15	2.1
20	2.9	3.1	2.9	3.1	3.1	4.0	1.6	4.6	1.7	1.7	4.0	2.2
21	3.3	3.1	2.9	3.1	2.3	3.4	1.6	4.7	1.7	1.7	2.5	2.3
22	3.1	3.1	6.6	3.1	2.3	3.4	1.9	4.9	1.8	1.7	2.4	2.2
23	2.9	3.1	3.6	3.6	2.3	4.0	2.3	4.9	1.8	1.7	2.3	2.0
24	2.9	3.1	3.1	3.2	2.3	3.4	2.3	5.1	1.9	1.7	2.2	1.9
25	2.8	4.4	2.9	3.1	2.3	3.4	2.3	5.1	2.0	1.7	2.1	1.9
26	22	3.8	2.6	3.1	2.3	3.4	2.6	4.9	2.2	1.6	1.9	1.8
27	8.6	3.8	2.6	3.1	2.2	3.5	2.6	4.8	2.2	1.6	1.9	1.8
28	4.0	3.6	2.6	3.1	2.2	3.8	2.5	4.6	2.3	1.6	1.9	19
29	3.6	3.2	2.6	3.1	59	3.4	2.4	4.5	2.6	1.6	1.8	13
30	49	3.6	2.6	3.1	---	3.4	2.3	4.2	2.8	1.7	1.7	3.9
31	8.8	---	2.6	3.1	---	3.2	---	3.6	---	1.7	1.5	---
TOTAL	226.2	126.8	96.6	99.4	150.8	154.2	110.3	125.4	65.7	58.5	73.3	78.8
MEAN	7.30	4.23	3.12	3.21	5.20	4.97	3.68	4.05	2.19	1.89	2.36	2.63
MAX	49	17	6.6	7.4	59	34	18	5.1	3.2	2.8	15	19
MIN	1.3	3.1	2.6	2.3	2.2	2.0	1.6	2.4	1.7	1.6	1.3	1.3
AC-FT	449	252	192	197	299	306	219	249	130	116	145	156

CAL YR 1975 TOTAL 6084.2 MEAN 16.7 MAX 689 MIN 1.3 AC-FT 12070
WTR YR 1976 TOTAL 1366.0 MEAN 3.73 MAX 59 MIN 1.3 AC-FT 2710

11183600 WALNUT CREEK AT CONCORD, CA

LOCATION.--Lat 37°56'43", long 122°02'55", in Arroyo de las Nueces y Bolbones Grant, Contra Costa County, on right bank at southwest city limits of Concord, 0.2 mi (0.3 km) upstream from Southern Pacific Railroad bridge, and 3.8 mi (6.1 km) downstream from confluence of San Ramon and Las Trampas Creeks.

DRAINAGE AREA.--85.1 mi^2 (220.4 km^2).

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 35.44 ft (10.802 m) above mean sea level (Corps of Engineers bench mark).

REMARKS.--Records good. Flow slightly regulated by Lafayette Reservoir 10 mi (16 km) upstream, capacity, 4,240 acre-ft (5.23 hm^3). Some small diversions for irrigation above station.

AVERAGE DISCHARGE.--8 years, 43.6 ft^3/s (1.235 m^3/s), 31,590 acre-ft/yr (39.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,000 ft^3/s (227 m^3/s) Feb. 27, 1973, gage height, 14.0 ft (4.27 m), estimated, from rating curve extended above 2,500 ft^3/s (70.8 m^3/s) on basis of computed discharge at gage height 13.7 ft (4.18 m); minimum daily, 3.0 ft^3/s (0.085 m^3/s) Oct. 27, 28, Oct. 30 to Nov. 1, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 720 ft^3/s (20.4 m^3/s) Feb. 29, gage height, 4.84 ft (1.475 m), no peak above base of 850 ft^3/s (24 m^3/s); minimum daily, 5.0 ft^3/s (0.14 m^3/s) Apr. 16, 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	12	7.8	8.0	9.2	44	8.6	8.7	11	7.8	8.3	6.7
2	8.1	10	7.8	7.7	9.7	116	9.2	8.3	11	8.3	7.8	6.7
3	8.6	26	8.2	7.9	9.7	31	8.6	8.3	11	8.1	8.2	6.2
4	7.6	15	7.8	8.3	12	14	9.2	8.5	10	8.4	8.1	5.8
5	7.6	18	7.7	8.3	19	12	9.2	9.5	9.0	8.7	8.1	5.8
6	7.6	11	7.6	8.2	13	11	9.2	9.7	8.9	9.1	9.2	6.2
7	8.6	10	7.8	8.3	9.2	10	14	9.1	9.0	8.7	9.2	8.1
8	8.1	9.7	7.9	8.1	35	10	40	8.7	9.1	9.2	8.6	7.1
9	59	10	8.6	27	18	10	7.6	8.4	8.0	7.6	9.0	7.6
10	111	31	8.3	14	8.8	11	23	8.8	8.0	7.6	8.0	7.1
11	53	12	8.3	10	8.5	11	13	8.6	7.5	7.6	8.8	7.1
12	16	9.7	13	9.7	8.2	8.6	15	8.6	10	8.1	6.8	7.1
13	10	9.7	10	9.2	11	10	7.6	9.0	8.1	8.1	7.5	6.7
14	9.7	9.2	8.6	8.6	14	9.2	5.8	7.9	8.8	7.1	7.3	7.1
15	8.1	9.2	8.1	8.6	14	9.2	6.2	7.9	8.4	7.1	14	6.7
16	8.6	9.7	8.6	8.6	10	10	5.0	7.3	7.7	7.1	8.3	6.7
17	8.1	9.2	8.1	8.6	9.1	11	5.8	7.1	8.6	7.6	7.6	6.7
18	8.1	9.2	8.6	8.6	8.6	19	5.0	7.7	7.9	6.6	19	6.2
19	8.1	8.6	8.1	8.6	19	16	5.8	9.0	7.8	8.1	34	6.2
20	8.1	8.6	8.6	9.2	11	10	6.7	8.4	7.9	8.1	11	5.8
21	9.7	7.6	9.2	9.2	9.2	9.2	6.7	9.1	8.1	8.1	7.8	5.8
22	8.2	7.5	19	9.2	9.2	9.7	6.7	8.7	8.4	8.6	9.6	5.8
23	7.1	7.4	10	10	8.6	9.7	7.1	8.6	8.2	11	7.1	5.8
24	23	7.4	10	9.2	9.1	9.7	7.1	9.1	9.4	9.7	7.0	5.4
25	10	10	8.7	9.2	9.1	9.7	7.1	9.6	8.8	7.6	6.9	5.4
26	88	9.5	8.6	9.2	9.7	9.7	7.1	9.1	8.5	8.1	6.0	5.8
27	20	8.9	8.5	9.2	9.2	9.2	7.6	8.8	8.5	8.6	6.5	5.8
28	12	8.4	8.4	9.2	8.6	9.2	7.7	9.5	8.9	7.6	7.1	64
29	10	7.8	8.3	9.2	154	9.7	8.3	8.9	7.7	8.1	6.2	27
30	100	8.6	8.4	9.7	---	9.2	7.7	8.0	7.9	8.1	6.7	11
31	17	---	8.1	9.2	---	9.2	---	9.0	---	8.1	7.1	---
TOTAL	676.6	330.9	276.7	298.0	483.7	487.2	287.6	267.9	262.1	252.6	286.8	275.4
MEAN	21.8	11.0	8.93	9.61	16.7	15.7	9.59	8.64	8.74	8.15	9.25	9.18
MAX	111	31	19	27	154	116	40	9.7	11	11	34	64
MIN	7.1	7.4	7.6	7.7	8.2	8.6	5.0	7.1	7.5	6.6	6.0	5.4
AC-FT	1340	656	549	591	959	966	570	531	520	501	569	546

CAL YR 1975 TOTAL 14360.2 MEAN 39.3 MAX 1370 MIN 7.1 AC-FT 28480
WTR YR 1976 TOTAL 4185.5 MEAN 11.4 MAX 154 MIN 5.0 AC-FT 8300

11183700 LITTLE PINE CREEK NEAR ALAMO, CA

LOCATION.--Lat 37°53'06", long 121°58'36", in Arroyo de las Nueces y Bolbones Grant, Contra Costa County, on right bank 200 ft (61 m) downstream from road ford, 1.2 mi (1.9 km) upstream from mouth, and 3.8 mi (6.1 km) northeast of Alamo.

DRAINAGE AREA.--1.22 mi^2 (3.16 km^2), revised.

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 520 ft (158 m), from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44 ft^3/s (1.25 m^3/s) Mar. 21, 1975, gage height, 2.12 ft (0.646 m), from rating curve extended above 2.2 ft^3/s (0.062 m^3/s) on basis of weir discharge computations; no flow for long periods in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.74 ft^3/s (0.021 m^3/s) Feb. 29, gage height, 1.01 ft (0.308 m), no peak above base of 30 ft^3/s (0.8 m^3/s); no flow for long periods.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			.01	.01	.01	.09	0					
2			.01	.01	.01	.22	0					
3			.01	.01	.01	.08	0					
4			.01	.01	.01	.04	0					
5			.01	.02	.04	.03	0					
6			.01	.02	.06	.03	0					
7			.01	.02	.05	.02	0					
8			.02	.02	.09	.02	.01					
9			.02	.07	.05	.02	0					
10			.02	.05	.02	.02	0					
11			.03	.04	.04	.02	.01					
12			.05	.04	.01	.01	.01					
13			.03	.04	.01	.01	.01					
14			.02	.02	.04	.01	.01					
15			.03	.02	.02	.01	.01					
16			.04	.02	.02	.01	0					
17			.04	.02	.02	.01	0					
18			.04	.02	.02	.01	0					
19			.04	.02	.04	.01	0					
20			.03	.01	.02	.01	0					
21			.03	.04	.02	.01	0					
22			.03	.04	.02	0	0					
23			.02	.04	.02	0	0					
24			.02	.04	.01	0	0					
25			.02	.01	.01	0	0					
26			.02	.01	.01	0	0					
27			.02	.01	.02	0	0					
28			.02	.01	.02	0	0					
29			.02	.01	.17	0	0					
30			.02	.01	---	0	0					
31		---	.02	.01	---	0	---		---			---
TOTAL	0	0	.72	.72	.89	.69	.06	0	0	0	0	0
MEAN	0	0	.023	.023	.031	.022	.002	0	0	0	0	0
MAX	0	0	.05	.07	.17	.22	.01	0	0	0	0	0
MIN	0	0	.01	.01	.01	0	0	0	0	0	0	0
AC-FT	0	0	1.4	1.4	1.8	1.4	.1	0	0	0	0	0

CAL YR 1975 TOTAL 96.07 MEAN .26 MAX 4.9 MIN 0 AC-FT 191
WTR YR 1976 TOTAL 3.08 MEAN .008 MAX .22 MIN 0 AC-FT 6

11455900 NAPA RIVER AT CALISTOGA, CA

LOCATION.--Lat 38°34'38", long 122°34'49", in Carne Humana Grant, Napa County, on right bank at end of Pine Street in Calistoga, 200 ft (61 m) downstream from bridge on State Highway 29, and 0.6 mi (1.0 km) downstream from Cyrus Creek.

DRAINAGE AREA.--21.9 mi^2 (56.7 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to September 1976.

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

REMARKS.--Records fair except those above 20 ft^3/s (0.57 m^3/s), which are poor. Flow slightly regulated by Kimball Creek Reservoir 3.7 mi (6.0 km) upstream, capacity, 344 acre-ft (424,000 m^3). No diversion above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 172 ft^3/s (4.87 m^3/s) Feb. 29, gage height, 4.76 ft (1.451 m), from rating curve extended above 15 ft^3/s (0.42 m^3/s), no peak above base of 1,000 ft^3/s (28 m^3/s); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.67	1.2	1.4	1.2	15	1.1	1.7	.14	.02	0	.06
2	.01	.81	1.0	1.4	1.1	12	.81	1.4	.13	.02	0	.03
3	.01	.81	.63	1.4	1.0	12	.87	1.4	.18	.02	0	.02
4	.01	.71	.40	1.4	1.1	11	.55	1.4	.20	.01	0	.02
5	.01	.63	2.3	1.4	1.0	6.6	.71	1.3	.25	.01	0	.02
6	.02	.75	2.7	1.4	1.0	4.9	.94	1.2	.20	.01	0	.02
7	.04	1.0	1.7	.94	1.0	4.1	5.5	1.0	.12	.01	0	.01
8	.14	.94	1.7	1.2	1.1	3.8	9.0	.94	.12	.02	0	.01
9	1.1	.94	1.7	2.3	1.2	3.0	4.9	.81	.18	.01	0	.01
10	1.8	1.1	1.7	1.5	1.1	2.4	4.9	.81	.21	.01	0	.01
11	.59	.94	2.5	1.3	.71	2.3	7.2	.63	.14	.01	0	.01
12	.40	.94	2.2	1.3	.75	2.3	17	.40	.10	.01	0	.01
13	.46	.94	1.9	1.2	1.6	2.0	7.9	.59	.09	.01	0	.01
14	.46	.94	1.7	1.2	1.9	2.2	6.1	.63	.05	.01	0	0
15	.46	2.9	1.8	1.2	1.7	2.0	4.9	.52	.04	.01	.18	0
16	.42	10	2.0	1.1	2.3	1.7	4.1	.40	.04	.01	.11	0
17	.42	1.2	1.8	1.1	1.4	1.7	3.9	.45	.03	.01	.08	0
18	.42	.59	1.7	1.1	1.3	2.2	3.6	.52	.04	.01	.09	.01
19	.42	.40	1.5	1.2	2.6	1.9	3.4	.52	.03	.01	.12	.01
20	.42	.37	1.7	1.5	1.3	1.7	2.9	.42	.03	.01	.08	.01
21	.34	.55	2.6	1.7	1.0	1.8	2.9	.42	.04	.01	.06	.01
22	.46	.75	3.8	1.5	1.5	1.7	2.6	.40	.03	.01	.13	0
23	.46	.71	2.2	1.3	1.5	1.8	2.4	.32	.03	.01	.09	0
24	.46	.81	2.0	1.2	1.4	1.8	2.4	.29	.03	.01	.09	0
25	.75	1.2	1.8	1.2	1.3	1.8	2.0	.32	.02	0	.08	0
26	2.8	1.3	1.7	1.1	1.5	1.4	2.0	.40	.02	0	.07	0
27	.63	1.2	1.7	1.1	1.5	1.2	2.0	.40	.02	0	.07	.01
28	.34	1.1	1.6	1.1	1.9	1.2	1.9	.32	.02	0	.06	.06
29	.82	1.1	1.5	1.2	47	.94	1.8	.34	.02	0	.06	.01
30	2.2	1.0	1.6	1.3	---	1.0	1.8	.13	.02	0	.06	.01
31	.87	---	1.6	1.3	---	1.1	---	.11	---	0	.06	---
TOTAL	17.75	37.30	55.93	40.54	84.96	110.54	112.08	20.49	2.57	.28	1.49	.37
MEAN	.57	1.24	1.80	1.31	2.93	3.57	3.74	.66	.086	.009	.048	.012
MAX	2.8	10	3.8	2.3	47	15	17	1.7	.25	.02	.18	.06
MIN	.01	.37	.40	.94	.71	.94	.55	.11	.02	0	0	0
AC-FT	35	74	111	80	169	219	222	41	5.1	.6	3.0	.7

WTR YR 1976 TOTAL 484.30 MEAN 1.32 MAX 47 MIN 0 AC-FT 961

11455900 NAPA RIVER AT CALISTOGA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1976.

COOPERATION.--The letter "A" following a date indicates chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
OCT									
14...A	1445	--	.52	817	18.5	--	94	0	21
NOV									
17...A	1420	--	1.0	212	10.0	--	49	0	11
JAN									
12...A	1300	1.3	--	350	15.0	--	64	0	14
MAR									
02...	1455	--	14	179	8.5	15	45	0	9.7
08...A	1020	--	3.8	202	10.5	--	51	0	12
APR									
08...	1130	--	11	269	11.5	3	43	0	8.8
MAY									
10...A	1020	--	.71	255	15.0	--	65	0	14
JUL									
12...A	1210	--	.01	500	26.5	--	99	0	20

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT									
14...	10	120	71	5.4	9.8	141	--	116	65
NOV									
17...	5.2	22	48	1.4	2.2	66	--	54	19
JAN									
12...	7.0	38	55	2.1	2.8	91	0	75	23
MAR									
02...	5.0	18	45	1.2	2.0	61	--	50	14
08...	5.0	19	44	1.2	2.1	71	--	58	17
APR									
08...	5.1	36	62	2.4	3.5	77	--	63	12
MAY									
10...	7.2	28	47	1.5	2.8	99	--	81	15
JUL									
12...	12	57	54	2.5	5.5	195	--	160	8.0

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
OCT									
14...	130	2.9	54	488	.66	.69	.67	3000	50
NOV									
17...	20	.7	36	150	.20	.40	.15	800	100
JAN									
12...	35	1.2	44	212	.29	.74	.01	1500	130
MAR									
02...	16	.7	27	125	.17	4.96	.28	610	180
08...	15	.6	38	145	.20	1.49	.14	510	160
APR									
08...	37	1.4	36	181	.25	5.38	.21	1600	220
MAY									
10...	21	.7	42	181	.25	.35	.04	800	160
JUL									
12...	44	1.1	48	293	.40	.01	--	1100	130

11455900 NAPA RIVER AT CALISTOGA, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL SELENIUM IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)	PCB IN BOTTOM MATERIAL (UG/KG)
JUN 30...	1300	13	<10	10	<10	<10	440	.5	0	30	0

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)
JUN 30...	.0	0	.2	.4	.4	.0	.0	.0	.0	.0	.0

DATE	LINDANE IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)
JUN 30...	.0	.0	.0	.0	.0	0	.0	0	0	0

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
Aug. 4	36	1.9	0.54	0.59	0.09	2300	Polyethylene strip

11456000 NAPA RIVER NEAR ST. HELENA, CA

LOCATION.--Lat 38°29'52", long 122°25'37", in Carne Humana Grant, Napa County, on right bank 0.2 mi (0.3 km) upstream from highway bridge, 1.3 mi (2.1 km) northeast of Zinfandel, and 2.5 mi (4.0 km) east of St. Helena.

DRAINAGE AREA.--81.4 mi^2 (210.8 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1929 to September 1932, October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 170.12 ft (51.853 m) above mean sea level. Prior to Nov. 22, 1958, at datum 3.00 ft (0.914 m) higher. Nov. 22, 1958, to July 22, 1976, at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records good except those for June to September, which are fair. Some regulation by Bell Canyon Reservoir since 1959, capacity, 2,530 acre-ft (3.12 hm^3). Small diversions above station for irrigation of about 1,500 acres (6.07 km^2).

AVERAGE DISCHARGE.--40 years, 94.3 ft^3/s (2.671 m^3/s), 68,320 acre-ft/yr (84.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft^3/s (357 m^3/s) Dec. 22, 1955, gage height, 18.17 ft (5.538 m) present datum; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 203 ft^3/s (5.75 m^3/s) Feb. 29, gage height, 4.57 ft (1.393 m) present datum, no peak above base of 4,200 ft^3/s (119 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	6.7	4.9	5.5	5.5	53	3.0	4.4	1.6	.10	0	.10
2	1.2	4.9	5.2	5.9	5.5	36	2.2	4.3	1.0	.08	0	.12
3	1.1	4.3	6.3	5.9	4.9	34	2.9	5.0	1.4	.05	0	.14
4	.91	4.3	6.3	6.3	4.9	24	3.5	3.7	1.9	.02	0	.16
5	1.1	4.3	6.3	6.3	5.2	18	3.6	2.9	2.3	.02	0	.17
6	1.7	4.3	9.0	6.7	5.2	14	4.0	4.4	2.6	.02	0	.18
7	1.8	4.6	7.1	6.7	5.2	12	11	4.3	2.3	.02	0	.19
8	2.2	5.2	6.3	6.7	5.5	11	67	4.7	1.5	.01	0	.18
9	4.1	5.5	6.7	9.0	5.9	9.3	27	4.4	1.4	0	0	.18
10	16	6.3	5.9	10	5.5	7.8	19	4.1	1.0	0	0	.18
11	12	6.3	5.5	7.6	4.9	6.6	20	4.0	1.3	0	0	.21
12	8.0	5.5	7.1	7.1	3.6	5.8	29	3.1	2.6	0	0	.23
13	4.9	4.9	6.7	6.7	4.1	5.8	22	2.3	2.5	0	0	.23
14	4.1	4.9	5.9	6.3	4.9	5.7	15	2.0	2.0	0	0	.23
15	3.8	6.3	6.3	6.3	7.6	5.7	11	3.3	1.7	0	0	.22
16	3.8	20	6.7	6.3	6.7	5.8	11	3.7	1.3	0	0	.22
17	3.8	14	6.7	6.7	7.6	6.1	8.7	3.8	.92	0	0	.22
18	3.8	17	5.9	6.7	5.9	5.9	8.4	3.7	.79	0	0	.22
19	3.8	17	5.5	6.7	8.5	5.9	7.7	3.8	.71	.02	0	.21
20	3.8	16	5.9	6.7	8.5	4.8	6.3	3.7	.64	.03	0	.22
21	3.6	14	5.9	7.6	6.3	4.2	6.3	3.2	.64	.02	0	.22
22	3.6	6.7	9.0	7.6	4.9	4.6	7.1	3.8	.62	0	0	.22
23	3.4	5.5	7.1	5.5	4.9	4.6	7.0	3.8	.57	0	0	.23
24	3.0	5.5	6.3	5.2	4.9	4.2	6.4	3.8	.48	0	0	.23
25	3.6	12	6.3	5.5	4.3	4.1	6.3	3.6	.31	0	0	.24
26	14	7.1	6.3	5.2	3.4	3.5	5.9	3.2	.26	0	0	.24
27	9.0	5.2	6.3	5.2	3.4	3.1	5.5	2.9	.23	0	0	.25
28	5.9	5.2	6.3	4.9	3.6	3.8	5.4	2.0	.19	0	.02	.30
29	5.5	4.9	5.9	5.5	67	4.1	5.4	1.9	.17	0	.05	.33
30	29	4.9	5.9	5.9	---	3.4	4.7	2.2	.13	0	.07	.31
31	12	---	5.9	5.9	---	3.5	---	2.3	---	0	.08	---
TOTAL	176.01	233.3	197.4	200.1	218.3	320.3	342.3	108.3	35.06	.39	.22	6.38
MEAN	5.68	7.78	6.37	6.45	7.53	10.3	11.4	3.49	1.17	.013	.007	.21
MAX	29	20	9.0	10	67	53	67	5.0	2.6	.10	.08	.33
MIN	.91	4.3	4.9	4.9	3.4	3.1	2.2	1.9	.13	0	0	.10
AC-FT	349	463	392	397	433	635	679	215	70	.8	.4	13

CAL YR 1975 TOTAL 35277.19 MEAN 96.6 MAX 3260 MIN .37 AC-FT 69970
WTR YR 1976 TOTAL 1838.06 MEAN 5.02 MAX 67 MIN 0 AC-FT 3650

11456000 NAPA RIVER NEAR ST. HELENA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952 to current year.
CHEMICAL ANALYSES: Water years 1952-66, 1976.
WATER TEMPERATURES: Water years 1958 to current year.
SEDIMENT RECORDS: Water years 1957-62.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1957 to current year.
SEDIMENT RECORDS: December 1956 to June 1962.

INSTRUMENTATION.--Temperature recorder since October 1957.

COOPERATION.--Chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1962-63, 1965, 1967-69, 1971-76), 33.5°C July 18, 1968; minimum (water years 1962-63, 1966-76), 3.5°C Dec. 14, 15, 1967, Dec. 11, 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 22.5°C June 28, 29; minimum, 5.5°C Jan. 2-4.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT 14...	1200	4.1	405	14.0	120	18	27	13
NOV 17...	1015	14	411	8.5	92	0	21	9.6
JAN 12...	1045	7.1	390	--	96	0	22	10
MAR 08...	0945	11	311	10.5	87	0	20	8.9
MAY 10...	0945	4.1	379	19.0	100	0	21	12
JUL 12...	1235	.00	410	--	140	0	28	17

DATE	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT 14...	32	36	1.3	3.2	126	--	103	22	49
NOV 17...	42	49	1.9	3.9	114	--	94	23	49
JAN 12...	43	48	1.9	3.9	121	0	99	26	40
MAR 08...	27	39	1.3	3.1	117	--	96	21	22
MAY 10...	38	44	1.6	3.5	131	--	107	20	38
JUL 12...	29	31	1.1	1.6	182	--	149	9.8	31

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
OCT 14...	.6	33	246	.33	2.72	.75	1200	10
NOV 17...	1.1	36	245	.33	9.26	.40	1800	70
JAN 12...	.9	36	249	.34	4.77	1.3	1300	20
MAR 08...	.7	35	201	.27	5.97	1.0	750	110
MAY 10...	.8	31	231	.31	2.56	.23	1300	40
JUL 12...	.5	19	227	.31	.00	--	1200	40

11456000 NAPA RIVER NEAR ST. HELENA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

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

11458000 NAPA RIVER NEAR NAPA, CA

LOCATION.--Lat 38°22'06", long 122°18'08", in Yajome Grant, Napa County, on left bank at downstream side of Oak Knoll Avenue bridge, 0.4 mi (0.6 km) downstream from Dry Creek, and 5 mi (8 km) north of Napa.

DRAINAGE AREA.--218 mi^2 (565 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1929 to September 1932, October 1959 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1315-B: 1930(M).

GAGE.--Water-stage recorder. Datum of gage is 24.74 ft (7.541 m) above mean sea level.

REMARKS.--Records fair. Flow slightly regulated by Bell Canyon Reservoir beginning in 1959, capacity, 2,530 acre-ft (3.12 hm^3) and Lake Hennessey beginning in December 1945, capacity, 31,000 acre-ft (38.2 hm^3). Diversions for irrigation of about 10,000 acres (40.5 km^2) above station.

AVERAGE DISCHARGE.--20 years, 181 ft^3/s (5.126 m^3/s), 131,100 acre-ft/yr (162 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,900 ft^3/s (479 m^3/s) Jan. 31, 1963, gage height, 27.59 ft (8.409 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 321 ft^3/s (9.09 m^3/s) Mar. 1, gage height, 4.10 ft (1.250 m), no peak above base of 5,000 ft^3/s (142 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	17	11	8.9	7.5	159	.94	6.1	.95	0	0	0
2	4.2	15	9.9	10	6.9	101	.46	3.7	.68	0	0	0
3	3.3	11	9.2	11	5.6	102	.25	3.6	.35	0	0	0
4	2.9	9.4	11	11	5.1	56	.17	3.7	.21	0	0	0
5	2.4	9.3	11	11	5.6	35	.14	3.2	.03	0	0	0
6	2.7	9.6	11	11	6.6	22	.14	2.1	.21	0	0	0
7	3.3	9.8	13	11	6.6	20	.17	2.4	.30	0	0	0
8	3.8	10	12	11	6.7	18	69	4.6	.21	0	0	0
9	5.1	11	11	15	7.8	14	68	2.8	.14	0	0	0
10	24	11	11	16	6.1	13	32	2.4	.11	0	.04	0
11	19	11	11	16	4.6	11	29	2.1	0	0	.25	0
12	15	11	11	13	3.7	7.1	26	2.1	0	0	.21	0
13	12	10	13	11	3.2	5.6	36	1.4	0	0	.30	0
14	9.0	10	11	12	2.8	4.6	26	.95	0	0	.30	0
15	5.7	11	11	11	4.1	2.9	18	1.2	0	0	.35	0
16	17	14	11	11	7.1	3.2	17	.76	0	0	.03	0
17	19	27	11	11	5.6	4.6	14	1.4	0	0	0	0
18	5.9	19	11	11	6.1	8.3	12	1.9	0	0	0	0
19	6.4	21	11	10	6.6	9.6	13	1.5	0	0	0	0
20	5.8	21	10	9.9	9.0	7.7	11	1.2	0	0	0	0
21	5.6	20	11	10	8.0	3.8	9.1	1.5	0	0	0	0
22	5.4	18	13	10	6.6	1.9	9.0	1.2	0	0	0	0
23	5.4	14	14	10	6.1	3.2	8.2	.68	0	0	0	0
24	5.7	13	13	8.2	6.1	3.2	9.0	2.0	0	0	0	0
25	5.1	12	12	8.1	5.1	3.2	8.3	2.4	0	0	0	.07
26	13	17	11	9.5	4.1	1.8	8.3	2.8	0	0	0	0
27	17	14	10	8.6	3.2	.95	6.1	3.3	0	0	0	.33
28	12	12	10	8.5	2.1	.47	6.6	7.7	0	0	0	.99
29	9.6	12	10	7.4	30	.60	4.6	3.7	0	.06	0	3.0
30	33	11	9.6	7.8	---	1.4	5.6	.85	0	.03	0	.84
31	35	---	9.2	7.6	---	1.2	---	.68	---	.01	0	---
TOTAL	318.0	411.1	343.9	327.5	188.6	626.32	448.07	75.92	3.19	.10	1.48	5.23
MEAN	10.3	13.7	11.1	10.6	6.50	20.2	14.9	2.45	.11	.003	.048	.17
MAX	35	27	14	16	30	159	69	7.7	.95	.06	.35	3.0
MIN	2.4	9.3	9.2	7.4	2.1	.47	.14	.68	0	0	0	0
AC-FT	631	815	682	650	374	1240	889	151	6.3	.2	2.9	10

CAL YR 1975 TOTAL 71087.40 MEAN 195 MAX 6920 MIN 1.8 AC-FT 141000
WTR YR 1976 TOTAL 2749.41 MEAN 7.51 MAX 159 MIN 0 AC-FT 5450

11458000 NAPA RIVER NEAR NAPA, CA--Continued

PERIOD OF RECORD.--Water years 1971, 1973 to current year.
CHEMICAL ANALYSES: Water years 1973 to current year.
SEDIMENT RECORDS: Water year 1971.

COOPERATION.--Chemical-quality samples were collected by Napa County Flood Control and Water Conservation District except when the letter "A" following a date indicates chemical-quality data were furnished by California Department of Water Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT										
14...	1030	9.6	393	--	14.5	--	--	150	15	26
NOV										
17...	0920	30	435	--	8.5	--	--	150	14	28
17...A	1330	47	446	7.8	10.5	0	11.8	150	19	24
JAN										
08...A	0915	11	378	7.4	11.5	4	11.2	150	19	24
12...	1020	12	440	--	15.0	--	--	140	9	25
MAR										
04...A	1100	55	285	7.4	8.0	10	11.1	100	2	17
08...	0900	18	343	--	10.0	--	--	110	1	21
MAY										
05...A	1215	3.6	390	8.0	21.0	3	11.2	140	1	24
10...	0920	2.7	413	--	16.5	--	--	140	0	24
JUL										
12...	1335	.00	440	--	--	--	--	150	0	25

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT										
14...	21	23	24	.8	3.0	166	--	136	23	26
NOV										
17...	20	27	27	1.0	3.0	169	--	139	24	35
17...	--	28	--	--	--	160	0	131	--	53
JAN										
08...	--	28	--	--	--	160	0	131	--	29
12...	19	30	31	1.1	2.9	160	0	131	27	28
MAR										
04...	--	20	--	--	--	120	0	98	--	17
08...	15	23	30	.9	2.6	138	--	113	28	19
MAY										
05...	--	33	--	--	--	170	0	139	--	26
10...	20	29	30	1.1	3.0	190	--	156	22	24
JUL										
12...	21	30	30	1.1	3.3	199	--	163	19	23

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
OCT									
14...	.3	30	--	241	.33	6.25	1.3	600	10
NOV									
17...	.3	30	--	259	.35	21.0	1.6	870	30
17...	--	--	255	--	.35	32.4	--	--	--
JAN									
08...	--	--	279	--	.38	8.29	--	--	--
12...	.4	29	--	250	.34	8.10	2.0	820	30
MAR									
04...	--	--	198	--	.27	29.4	--	--	--
08...	.4	29	--	213	.29	10.4	1.4	550	80
MAY									
05...	--	--	226	--	.31	2.20	--	--	--
10...	.4	23	--	241	.33	1.76	.36	640	70
JUL									
12...	.4	34	--	255	.35	.00	--	680	30

11458000 NAPA RIVER NEAR NAPA, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL SELENIUM IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)	PCB IN BOTTOM MATERIAL (UG/KG)
JUN 30...	1100	11	<10	20	<10	30	330	.2	0	20	0

DATE	TIME	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)
JUN 30...	1100	.0	0	.0	.1	.0	.0	.0	.0	.0	.0

DATE	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)
JUN 30...	.0	.0	.0	.0	.0	.0	0	.0	0	0	0

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
Aug. 4	36	16	8.7	6.8	4.1	1100	Polyethylene strip

11458100 MILLIKEN CREEK NEAR NAPA, CA

LOCATION.--Lat 38°20'19", long 122°16'06", in Yajome Grant, Napa County, on right bank at upstream side of Hedgeside Road bridge, 3.0 mi (4.8 km) northwest of town of Napa.

DRAINAGE AREA.--17.3 mi^2 (44.8 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 37.68 ft (11.485 m) above mean sea level (levels by county of Napa).

REMARKS.--Records good. Flow regulated by Milliken Reservoir, capacity, 2,000 acre-ft (2.47 km^3) and by several small lakes and diversion dams on the Silverado Golf Course; diversions above station for irrigation of about 500 acres (2.02 km^2).

AVERAGE DISCHARGE.--6 years, 19.4 ft^3/s (0.549 m^3/s), 14,060 acre-ft/yr (17.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,840 ft^3/s (222 m^3/s) Mar. 21, 1975, gage height, 7.89 ft (2.405 m), from rating curve extended above 1,100 ft^3/s (31.2 m^3/s); maximum gage height, 8.38 ft (2.554 m) Jan. 16, 1973 (backwater from debris); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 67 ft^3/s (1.90 m^3/s) Oct. 8, gage height, 2.17 ft (0.661 m), no peak above base of 600 ft^3/s (17 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.83	4.7	.80	.92	5.3	4.3	4.8	.35	0	.19	.61	1.3
2	.82	3.8	.85	.86	4.8	24	1.3	1.2	.05	.14	.51	.75
3	.55	3.1	.70	.80	3.8	17	.70	.11	1.5	.13	.58	.95
4	.55	2.4	.70	.78	4.8	12	.56	.70	.09	.32	.75	.70
5	.85	2.7	.75	1.0	5.3	7.3	1.2	.47	0	.47	.56	1.0
6	1.0	2.3	.70	.85	4.8	2.4	4.3	.11	1.6	.32	.56	.90
7	1.7	3.4	.65	.74	1.1	1.8	5.3	.02	3.0	.47	.56	1.2
8	9.3	3.0	.70	.66	1.2	2.7	5.3	0	.19	.56	.23	1.4
9	3.0	3.0	4.1	1.1	1.3	5.3	1.9	0	.26	.51	.32	1.4
10	17	3.4	.90	.90	1.4	6.8	4.3	.30	0	.90	.26	.23
11	9.0	3.0	1.1	.85	5.0	6.6	6.6	.17	1.2	1.6	.70	.16
12	3.7	3.0	1.3	.80	4.8	5.3	5.3	0	1.4	.32	.61	.47
13	2.5	2.4	1.2	.85	4.8	1.4	2.7	0	1.1	1.2	.61	.61
14	1.9	1.6	1.1	.80	6.6	.95	2.7	0	1.1	.26	.56	1.4
15	1.7	1.6	.95	.75	6.6	1.1	1.5	0	.70	1.3	1.4	1.2
16	1.5	1.5	.85	.85	6.6	4.3	.32	.67	.56	.32	.80	1.2
17	1.5	1.8	.75	.75	4.8	4.3	1.3	.17	.61	0	.80	.29
18	1.4	1.4	.85	.75	4.3	4.8	1.4	.19	.47	0	2.2	.80
19	1.3	.95	.70	.95	7.3	4.3	1.4	.07	1.0	0	1.9	.35
20	1.3	.85	.70	1.1	6.6	1.1	.90	0	.47	0	1.5	.11
21	1.2	.85	1.4	.85	1.4	.70	1.0	0	.23	0	1.2	0
22	1.2	1.6	2.2	1.0	1.1	1.3	.90	0	.17	0	.95	.26
23	1.2	1.2	1.9	.80	1.6	4.3	.80	0	.26	0	.85	.95
24	1.2	.80	1.9	.61	5.3	4.3	.80	0	1.6	0	.51	1.2
25	1.3	.85	1.9	.61	5.3	4.8	.85	0	1.1	0	.04	1.0
26	11	.90	1.8	.70	1.1	4.3	.80	0	.17	.83	0	.02
27	6.0	1.0	1.8	.75	.85	1.4	.56	0	.26	.09	.13	.26
28	3.0	1.1	2.2	5.0	.95	1.2	.80	1.4	.95	.21	.16	1.4
29	2.5	1.2	1.6	5.3	7.3	1.3	1.1	1.1	.38	.19	.13	1.1
30	14	.70	1.2	4.3	---	2.7	.85	0	.17	1.6	.17	1.0
31	8.0	---	1.0	4.8	---	4.3	---	0	---	.38	.29	---
TOTAL	112.00	60.10	39.25	41.78	116.10	148.35	62.24	7.03	20.59	12.31	20.45	23.61
MEAN	3.61	2.00	1.27	1.35	4.00	4.79	2.07	.23	.69	.40	.66	.79
MAX	17	4.7	4.1	5.3	7.3	24	6.6	1.4	3.0	1.6	2.2	1.4
MIN	.55	.70	.65	.61	.85	.70	.32	0	0	0	0	0
AC-FT	222	119	78	83	230	294	123	14	41	24	41	47

CAL YR 1975 TOTAL 9441.89 MEAN 25.9 MAX 1530 MIN 0 AC-FT 18730
WTR YR 1976 TOTAL 663.81 MEAN 1.81 MAX 24 MIN 0 AC-FT 1320

11458300 NAPA CREEK AT NAPA, CA

LOCATION.--Lat 38°18'07", long 122°18'10", in Napa Grant, Napa County, on left bank 150 ft (46 m) upstream from bridge on State Highway 29 in town of Napa, 0.6 mi (1.0 km) downstream from confluence of Redwood and Browns Creeks.

DRAINAGE AREA.--14.9 mi^2 (38.6 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 32.60 ft (9.936 m) above mean sea level (levels by county of Napa).

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

AVERAGE DISCHARGE.--6 years, 14.8 ft^3/s (0.419 m^3/s), 10,720 acre-ft/yr (13.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,560 ft^3/s (72.5 m^3/s) Mar. 21, 1975, gage height, 10.90 ft (3.322 m) from crest-stage gage, from rating curve extended above 1,100 ft^3/s (31.2 m^3/s); no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 83 ft^3/s (2.35 m^3/s) Feb. 29, gage height, 1.98 ft (0.604 m), no peak above base of 600 ft^3/s (17 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.77	.18	.27	.21	11	.18	.21	.04		0	0
2	.01	.36	.20	.23	.19	30	.19	.21	.04		0	0
3	.01	.21	.21	.21	.15	10	.19	.21	.04		0	0
4	.01	2.7	.22	.23	.15	8.0	.23	.21	.04		0	0
5	.01	.51	.36	.24	.15	5.1	.41	.18	.06		0	0
6	.01	.45	.43	.30	.15	4.0	.46	.18	.06		0	0
7	.01	.30	.37	.24	.15	2.3	2.7	.15	.04		0	0
8	.01	.23	.32	.21	.18	2.0	11	.12	.04		0	0
9	6.5	.16	.32	1.4	.24	1.8	5.1	.10	.04		0	0
10	12	1.4	.32	.40	.22	1.3	4.4	.10	.02		0	0
11	1.4	.33	.32	.24	.18	1.2	2.5	.10	.02		0	0
12	.41	.20	1.4	.24	.17	.68	1.7	.08	.02		0	0
13	.28	.18	.30	.24	.41	.57	1.7	.08	.02		0	0
14	.28	.16	.31	.24	1.6	.57	1.2	.08	.01		0	0
15	.24	.79	.35	.21	1.2	.47	.84	.06	.01		.02	0
16	.28	.72	.36	.21	.59	.44	.57	.06	.01		.03	0
17	.41	1.1	.24	.43	.44	.41	.46	.06	.01		.01	0
18	.46	.48	.21	.55	.30	.43	.41	.04	.01		.57	0
19	.64	.33	.22	.32	1.3	.40	.57	.04	.01		.46	0
20	.28	.52	.43	.22	.39	.34	.46	.04	.01		.03	0
21	.36	.27	.99	.21	.29	.31	.41	.04	.01		.01	0
22	.36	.22	1.7	.21	.24	.30	.36	.04	.01		.34	0
23	.36	.18	.37	.21	.24	.30	.36	.04	0		.05	0
24	.28	.18	.28	.25	.24	.28	.35	.04	0		.01	0
25	.40	.18	.28	.27	.24	.28	.29	.02	0		.01	0
26	8.0	.18	.28	.24	.24	.30	.21	.02	0		.01	0
27	.36	.18	.29	.24	.24	.29	.21	.04	0		.01	1.9
28	.24	.18	.29	.24	.25	.25	.21	.06	0		0	.12
29	1.5	.18	.30	.24	25	.23	.23	.04	0		0	.01
30	13	.18	.28	.24	---	.20	.21	.04	0		0	.01
31	2.7	---	.27	.23	---	.19	---	.04	---		0	---
TOTAL	50.83	13.83	12.40	9.21	35.35	83.94	38.11	2.73	.57	0	1.56	2.04
MEAN	1.64	.46	.40	.30	1.22	2.71	1.27	.088	.019	0	.050	.068
MAX	13	2.7	1.7	1.4	25	30	11	.21	.06	0	.57	1.9
MIN	.01	.16	.18	.21	.15	.19	.18	.02	0	0	0	0
AC-FT	101	27	25	18	70	166	76	5.4	1.1	0	3.1	4.0

CAL YR 1975 TOTAL 5687.04 MEAN 15.6 MAX 480 MIN .01 AC-FT 11280
WTR YR 1976 TOTAL 250.57 MEAN .68 MAX 30 MIN 0 AC-FT 497

11458350 TULUCAY CREEK AT NAPA, CA

LOCATION.--Lat 38°17'09", long 122°16'29", in Tulucay Grant, Napa County, on left bank 150 ft (46 m) downstream from bridge on State Highways 12 and 29 in Napa.

DRAINAGE AREA.--12.6 mi^2 (32.6 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 3.65 ft (1.113 m) above mean sea level (levels by county of Napa).

REMARKS.--Records good. No regulation; some small diversions above station for irrigation of about 30 acres (121,000 m^2).

AVERAGE DISCHARGE.--5 years, 8.19 ft^3/s (0.232 m^3/s), 5,930 acre-ft/yr (7.31 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,260 ft^3/s (35.7 m^3/s) Mar. 21, 1975, gage height, 4.54 ft (1.384 m), from rating curve extended above 560 ft^3/s (15.9 m^3/s); maximum gage height, 5.55 ft (1.692 m) Jan. 16, 1973 (affected by tide); minimum daily discharge, 0.01 ft^3/s (<0.001 m^3/s) many days in 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 35 ft^3/s (0.99 m^3/s) Mar. 2, gage height, 2.27 ft (0.692 m), no peak above base of 400 ft^3/s (11 m^3/s); minimum daily, 0.01 ft^3/s (<0.001 m^3/s) many days during July and August.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.21	1.0	.58	.62	.39	2.2	.28	.28	.11	.04	.02	.04
2	.22	.87	.60	.58	.37	16	.31	.26	.11	.02	.02	.04
3	.21	.87	.63	.58	.36	5.8	.31	.26	.11	.02	.04	.04
4	.22	.80	.59	.58	.37	3.1	.31	.21	.09	.02	.01	.04
5	.21	.74	.59	.60	.36	2.1	.34	.21	.09	.02	.01	.07
6	.23	.68	.58	.58	.36	1.7	.37	.21	.09	.02	.01	.04
7	.21	.74	.58	.58	.34	1.4	.90	.19	.09	.02	.01	.03
8	.22	.74	.58	.58	.36	1.3	2.0	.19	.08	.02	.01	.04
9	2.5	.80	.58	1.0	.36	1.2	.96	.17	.08	.02	.01	.03
10	1.7	1.0	.58	.73	.35	1.1	1.1	.17	.08	.02	.07	.03
11	.58	.68	.62	.63	.34	1.0	.87	.15	.08	.01	.01	.04
12	.58	.63	.87	.58	.34	.88	.63	.13	.06	.01	.01	.03
13	.58	.63	.67	.58	.54	.80	.58	.13	.06	.01	.01	.04
14	.53	.58	.61	.57	.81	.78	.53	.13	.05	.01	.04	.04
15	.48	1.3	.62	.53	.79	.74	.48	.13	.06	.02	.26	.04
16	.48	1.0	.63	.53	.61	.74	.44	.13	.05	.01	.02	.04
17	.48	.87	.63	.53	.51	.68	.37	.13	.05	.02	.01	.05
18	.48	.74	.63	.53	.48	.72	.37	.13	.06	.02	.30	.06
19	.48	.68	.59	.50	.57	.67	.34	.13	.06	.02	.07	.05
20	.48	.74	.58	.45	.47	.58	.37	.15	.08	.02	.03	.06
21	.44	.68	.96	.45	.44	.53	.37	.15	.05	.02	.03	.08
22	.44	.63	1.3	.44	.41	.48	.37	.15	.05	.02	.08	.06
23	.40	.63	.81	.46	.40	.48	.37	.13	.04	.02	.03	.08
24	.40	.58	.74	.44	.40	.44	.34	.13	.05	.01	.04	.08
25	1.0	.58	.68	.43	.39	.44	.31	.13	.06	.01	.04	.06
26	3.1	.53	.68	.44	.40	.48	.31	.11	.06	.02	.04	.08
27	.94	.54	.68	.42	.39	.48	.31	.11	.05	.01	.05	.05
28	.74	.58	.68	.42	.40	.44	.31	.11	.04	.02	.04	.71
29	2.4	.59	.64	.42	6.7	.40	.31	.11	.04	.02	.03	.09
30	3.1	.60	.63	.40	---	.34	.28	.11	.04	.01	.04	.06
31	1.7	---	.63	.40	---	.31	---	.11	---	.01	.04	---
TOTAL	25.74	22.03	20.77	16.58	19.01	48.31	15.14	4.84	2.02	.54	1.43	2.20
MEAN	.83	.73	.67	.53	.66	1.56	.50	.16	.067	.017	.046	.073
MAX	3.1	1.3	1.3	1.0	6.7	16	2.0	.28	.11	.04	.30	.71
MIN	.21	.53	.58	.40	.34	.31	.28	.11	.04	.01	.01	.03
AC-FT	51	44	41	33	38	96	30	9.6	4.0	1.1	2.8	4.4

CAL YR 1975	TOTAL	2817.97	MEAN 7.72	MAX 229	MIN .15	AC-FT	5590
WTR YR 1976	TOTAL	178.61	MEAN .49	MAX 16	MIN .01	AC-FT	354

11458500 SONOMA CREEK AT AGUA CALIENTE, CA

LOCATION.--Lat 38°19'24", long 122°29'36", in Agua Caliente Grant, Sonoma County, on left bank 20 ft (6 m) upstream from bridge, and 0.4 mi (0.6 km) west of Agua Caliente.

DRAINAGE AREA.--58.4 mi^2 (151.3 km^2).

PERIOD OF RECORD.--February 1955 to current year. Prior to October 1966, published as "at Boyes Hot Springs."

GAGE.--Water-stage recorder. 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.

REMARKS.--Records fair. No regulation; some diversion above station for irrigation of about 2,000 acres (8.09 km^2).

AVERAGE DISCHARGE.--21 years, 72.4 ft^3/s (2.050 m^3/s), 52,450 acre-ft/yr (64.7 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,880 ft^3/s (251 m^3/s) Dec. 22, 1955, gage height, 17.10 ft (5.212 m) site and datum then in use, from rating curve extended above 4,100 ft^3/s (116 m^3/s) on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 215 ft^3/s (6.09 m^3/s) Feb. 29, gage height, 3.58 ft (1.091 m) from crest-stage gage, no peak above base of 2,300 ft^3/s (65 m^3/s); no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	4.6	4.0	3.8	1.6	108	2.1	2.9	1.6	0	0	0
2	.79	3.5	4.1	3.4	1.4	180	2.1	3.5	1.7	0	0	0
3	.88	3.4	4.2	3.2	1.4	96	1.8	2.9	.71	0	0	0
4	.83	3.3	4.2	3.1	2.1	50	1.5	3.1	.99	0	0	0
5	.78	3.2	5.3	3.5	1.4	31	1.4	3.1	.82	.04	0	0
6	.69	3.1	5.3	3.8	1.4	20	1.5	2.8	1.4	.01	0	0
7	1.1	3.2	5.0	3.4	1.5	15	11	2.1	1.2	0	0	0
8	1.1	3.3	4.8	3.2	1.6	12	58	1.4	1.4	0	0	0
9	5.9	3.8	4.7	5.7	1.7	8.0	21	.64	1.3	0	0	0
10	12	5.6	4.7	4.6	1.5	6.0	18	2.6	1.4	0	0	0
11	5.2	4.0	4.7	4.2	1.4	6.3	20	2.9	1.3	0	0	0
12	3.8	3.6	5.7	3.9	1.4	5.6	18	1.8	1.2	0	0	0
13	3.1	3.3	5.0	3.6	2.5	5.3	14	1.0	1.4	0	0	.01
14	2.6	3.2	4.6	3.4	5.9	5.3	11	.48	1.3	0	0	.02
15	2.4	5.7	4.4	3.2	4.5	5.2	9.3	1.1	1.5	0	.24	.07
16	2.3	5.6	4.6	3.3	3.7	5.0	7.2	.73	1.2	0	.34	.06
17	2.2	6.7	4.0	3.4	3.3	4.9	6.4	.65	1.3	0	.17	.05
18	2.2	5.0	3.6	3.3	3.3	5.2	5.0	.89	1.3	0	.58	.03
19	2.1	4.1	3.5	3.0	4.6	5.3	5.0	1.5	.85	.02	1.5	.02
20	2.1	4.6	3.9	3.0	2.6	4.2	4.7	1.6	.89	.04	.49	.02
21	2.0	3.6	5.0	3.0	2.2	4.0	4.2	1.8	.40	.02	.38	.02
22	1.8	3.2	8.4	2.7	2.1	4.1	4.0	1.8	1.1	.01	.57	.02
23	1.7	3.1	5.8	2.2	2.0	4.0	4.2	2.3	.63	.01	.49	.02
24	1.9	3.0	4.3	1.9	1.9	3.6	3.8	2.0	.10	0	.60	.03
25	2.6	3.0	3.9	1.4	1.9	3.2	3.1	1.7	.09	0	.39	.04
26	23	3.0	3.8	1.2	1.9	2.7	3.1	1.6	.08	0	.25	.03
27	6.7	3.0	3.9	1.5	2.0	2.3	3.1	1.3	.01	0	.10	.04
28	4.2	3.0	4.1	1.2	2.5	2.2	2.9	.91	0	0	.04	1.6
29	4.1	3.2	4.2	1.4	155	2.1	2.9	1.4	0	0	.03	1.8
30	27	3.8	4.1	1.5	---	2.0	3.1	1.1	0	0	.02	.97
31	8.4	---	3.8	1.6	---	2.0	---	1.3	---	0	.01	---
TOTAL	136.57	114.7	141.6	91.6	220.3	610.5	253.4	54.90	27.17	.15	6.20	4.85
MEAN	4.41	3.82	4.57	2.95	7.60	19.7	8.45	1.77	.91	.005	.20	.16
MAX	27	6.7	8.4	5.7	155	180	58	3.5	1.7	.04	1.5	1.8
MIN	.69	3.0	3.5	1.2	1.4	2.0	1.4	.48	0	0	0	0
AC-FT	271	228	281	182	437	1210	503	109	54	.3	12	9.6

CAL YR 1975 TOTAL 26714.84 MEAN 73.2 MAX 2380 MIN .42 AC-FT 52990
WTR YR 1976 TOTAL 1661.94 MEAN 4.54 MAX 180 MIN 0 AC-FT 3300

Note.--No gage-height record Dec. 13 to Jan. 24, Feb. 6 to Mar. 10.

11459300 SAN ANTONIO CREEK NEAR PETALUMA, CA

LOCATION.--Lat 38°10'57", long 122°36'55", in sec.22, T.4 N., R.7 W., Sonoma County, on left bank 0.8 mi (1.3 km) upstream from bridge on San Antonio Road, 3.6 mi (5.8 km) southeast of Petaluma.

DRAINAGE AREA.--28.9 mi^2 (74.9 km^2).

PERIOD OF RECORD.--August 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 30 ft (9 m), from topographic map.

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

EXTREMES FOR CURRENT PERIOD.--August to September 1975: No flow during period.
Water year 1976: Maximum discharge, 13 ft^3/s (0.37 m^3/s) Feb. 29, gage height, 4.00 ft (1.219 m), no peak above base of 150 ft^3/s (4.2 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.21	.04	.03	.08	2.4	.18	.01				
2	0	.08	.03	.03	.07	5.4	.34	.01				
3	0	.04	.07	.03	.10	2.2	.47	.01				
4	0	.04	.08	.03	.09	.66	.47	.01				
5	0	.04	.05	.06	.05	.31	.47	.01				
6	0	.04	.05	.05	.06	.17	.53	0				
7	0	.04	.04	.05	.09	.12	1.3	0				
8	0	.04	.04	.05	.05	.10	2.9	0				
9	0	.04	.04	.10	.05	.10	.79	0				
10	0	.04	.05	.17	.05	.17	.35	0				
11	0	.05	.05	.15	.04	.17	.35	0				
12	0	.05	.24	.04	.04	.17	.24	0				
13	0	.05	.10	.04	.04	.17	.14	0				
14	0	.05	.05	.03	.06	.17	.06	0				
15	0	.05	.05	.03	.24	.17	.04	0				
16	0	.05	.05	.03	.38	.17	.04	0				
17	0	.05	.05	.03	.37	.17	.03	0				
18	0	.05	.05	.03	.21	.15	.03	0				
19	0	.04	.04	.03	.33	.10	.03	0				
20	0	.04	.04	.03	1.0	.10	.02	0				
21	0	.04	.09	.03	.69	.12	.02	0				
22	0	.03	.79	.02	.47	.10	.02	0				
23	0	.03	.36	.03	.47	.10	.01	0				
24	0	.04	.10	.04	.30	.10	.02	0				
25	0	.04	.03	.04	.22	.10	.01	0				
26	0	.04	.03	.04	.25	.10	.02	0				
27	0	.04	.03	.04	.25	.10	.01	0				
28	.14	.04	.03	.04	.12	.10	.01	0				
29	.12	.03	.03	.04	4.1	.10	.01	0				
30	1.6	.03	.03	.04	---	.10	.01	0				
31	.72	---	.03	.05	---	.10	---	0	---			---
TOTAL	2.58	1.45	2.76	1.45	10.27	14.29	8.92	.05	0	0	0	0
MEAN	.083	.048	.089	.047	.35	.46	.30	.002	0	0	0	0
MAX	1.6	.21	.79	.17	4.1	5.4	2.9	.01	0	0	0	0
MIN	0	.03	.03	.02	.04	.10	.01	0	0	0	0	0
AC-FT	5.1	2.9	5.5	2.9	20	28	18	.10	0	0	0	0

WTR YR 1976 TOTAL 41.77 MEAN .11 MAX 5.4 MIN 0 AC-FT 83

11459500 NOVATO CREEK AT NOVATO, CA

LOCATION.--Lat 38°06'28", long 122°34'44", in Novato Grant, Marin County, on left bank in Novato, 100 ft (30 m) upstream from 7th Street Bridge.

DRAINAGE AREA.--17.6 mi^2 (45.6 km^2).

PERIOD OF RECORD.--October 1946 to current year. Records of diversions for water years 1952-53, estimated. Prior to October 1966 published as "near Novato."

GAGE.--Water-stage recorder. Altitude of gage is 30 ft (9 m), from topographic map. Prior to Aug. 23, 1967, at site 0.6 mi (1.0 km) upstream at different datum.

REMARKS.--Records fair. Flow regulated by Stafford Lake beginning Dec. 1, 1951, capacity, 4,500 acre-ft (5.55 hm^3) since Oct. 18, 1954; contents, 2,150 acre-ft (2.65 hm^3) Sept. 30, 1975, and 750 acre-ft (925,000 m^3) Sept. 30, 1976. Diversion from Stafford Lake for municipal water supply began Apr. 25, 1952, and amounted to 1,720 acre-ft (2.12 hm^3) for the current year. During the period February to May 1976, 819 acre-ft (1.01 hm^3) was diverted into Stafford Lake from the Russian River.

COOPERATION.--Record of diversions furnished by North Marin County Water District.

AVERAGE DISCHARGE (adjusted for diversion).--30 years, 12.9 ft^3/s (0.365 m^3/s), 9,350 acre-ft/yr (11.5 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,000 ft^3/s (56.6 m^3/s) Jan. 14, 1970, gage height, 11.01 ft (3.356 m); no flow many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 113 ft^3/s (3.20 m^3/s) Apr. 7, gage height, 3.96 ft (1.207 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.14	.18	.45	.13	2.0	.47	.13	.03		0	0
2	.09	.14	.18	.45	.11	11	.49	.18	0		0	0
3	.11	.14	.17	.50	.13	.82	.44	.10	0		0	0
4	.11	.15	.19	.56	.23	.50	.46	.11	0		0	0
5	.12	.15	.17	.82	.40	.45	.46	.08	0		0	0
6	.07	.18	.22	1.1	.10	.40	.53	.08	0		0	0
7	.09	.35	.18	.56	.10	.40	13	.09	0		0	0
8	.09	.19	.18	1.6	.12	.40	2.6	.08	0		0	0
9	12	.20	.18	3.1	.13	.40	.23	.07	0		0	0
10	4.7	.70	.23	.29	.13	.40	1.2	.09	0		0	0
11	4.9	.19	.55	.20	.12	.40	.40	.09	.02		0	0
12	.45	.21	.70	.20	.13	.40	.56	.06	.01		0	0
13	.19	.21	.17	.21	.49	.41	.20	.05	0		0	0
14	.17	.20	.19	.19	.75	.40	.19	.06	0		0	0
15	.17	.27	.20	.25	.44	.40	.18	.06	0		.01	0
16	.15	.20	.27	.21	.25	.43	.19	.06	0		0	0
17	.15	.23	.23	.23	.15	.42	.20	.05	0		0	0
18	.15	.50	.27	.19	.18	.70	.20	.05	0		.62	0
19	.17	.19	.27	.19	1.2	.35	.19	.10	0		.16	0
20	.18	.35	.35	.18	.12	.39	.20	.06	0		.04	0
21	.20	.17	2.2	.18	.11	.40	.20	.05	0		.01	0
22	.27	.15	1.4	.17	.11	.45	.20	.06	0		0	0
23	.27	.14	.27	.16	.11	.46	.17	.05	0		0	0
24	.35	.15	.27	.16	.13	.50	.17	.06	0		0	0
25	.82	.18	.31	.17	.13	.48	.16	.05	0		0	0
26	5.0	.23	.27	.16	.13	.48	.14	.03	0		0	0
27	.17	.23	.31	.20	.13	.45	.14	.01	0		0	.42
28	.14	.20	.31	.22	.13	.49	.14	.03	0		0	3.9
29	2.1	.19	.40	.16	12	.46	.14	.03	0		0	2.1
30	4.7	.17	.40	.14	---	.50	.17	.05	0		0	.06
31	.17	---	.45	.13	---	.45	---	.05	---		0	---
TOTAL	38.35	6.70	11.67	13.33	18.39	26.19	24.02	2.12	.06	0	.84	6.48
MEAN	1.24	.22	.38	.43	.63	.84	.80	.068	.002	0	.027	.22
MAX	12	.70	2.2	3.1	12	11	13	.18	.03	0	.62	3.9
MIN	.07	.14	.17	.13	.10	.35	.14	.01	0	0	0	0
AC-FT	76	13	23	26	36	52	48	4.2	.1	0	1.7	13

CAL YR 1975 TOTAL 3511.68 MEAN 9.62 MAX 275 MIN .03 AC-FT 6970
WTR YR 1976 TOTAL 148.15 MEAN .40 MAX 13 MIN 0 AC-FT 294

11459800 SAN RAFAEL CREEK AT SAN RAFAEL, CA

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^2 (3.21 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1971 to September 1976, seasonal records only (discontinued).

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.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 781 ft^3/s (22.1 m^3/s) Dec. 21, 1973, gage height, 7.87 ft (2.399 m), from rating curve extended above 240 ft^3/s (6.80 m^3/s) on basis of computation of flow through culvert.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 133 ft^3/s (3.77 m^3/s) Oct. 9, gage height, 3.06 ft (0.933 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---		---		---	1.0	---					
2	---		---		---	11	---					
3	---		---		---	1.2	---					
4	---		---		---	.66	---					
5	---		---		---	---	---					
6	---		---		---	---	.37					
7	---		---		---	---	4.0					
8	.16		---		---	---	2.0					
9	20		---		---	---	.48					
10	6.1		---		---	---	1.0					
11	.83		.24		---	---	.73					
12	.80		.53		---	---	---					
13	---		.21		---	---	---					
14	---		---		---	---	---					
15	---		---		---	---	---					
16	---		---		---	---	---					
17	---		---		---	---	---					
18	---		---		---	---	---					
19	---		---		---	---	---					
20	---		.20		---	---	---					
21	---		1.2		---	---	---					
22	---		.38		---	---	---					
23	---		.24		---	---	---					
24	---		---		---	---	---					
25	---		---		---	---	---					
26	---		---		---	---	---					
27	---		---		---	---	---					
28	.24		---		.24	---	---					
29	2.1		---		10	---	---					
30	2.1		---		---	---	---					
31	.38		---		---	---	---					
TOTAL	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---
AC-FT	---	---	---	---	---	---	---	---	---	---	---	---
(†)	5.11	.26	.43	.24	2.51	1.46	1.88	0	0	0	.70	.45

† Precipitation, in inches.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SEDIMENT RECORDS: Water years 1972-76 (discontinued).

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
MAR									
02...	1125	8.5	9.6	82	2.1	99	100	--	--
APR									
08...	1125	12.5	3.9	19	.20	99	99	99	100

11459830 IRWIN CREEK AT SAN RAFAEL, CA

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^2 (1.79 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1971 to September 1976, seasonal records only (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 75 ft (23 m), from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 96 ft^3/s (2.72 m^3/s) Jan. 18, 1973, gage height, 4.46 ft (1.359 m), from rating curve extended above 37 ft^3/s (1.05 m^3/s) on basis of computation of flow through culvert.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21 ft^3/s (0.59 m^3/s) Oct. 9, gage height, 2.43 ft (0.741 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---				---	0	---					
2	---				---	1.9	---					
3	---				---	---	---					
4	---				---	---	---					
5	---				---	---	---					
6	---				---	---	---					
7	---				---	---	.29					
8	---				---	---	.18					
9	2.9				---	---	---					
10	.40				---	---	---					
11	---				---	---	---					
12	---				---	---	---					
13	---				---	---	---					
14	---				---	---	---					
15	---				---	---	---					
16	---				---	---	---					
17	---				---	---	---					
18	---				---	---	---					
19	---				---	---	---					
20	---				---	---	---					
21	---				---	---	---					
22	---				---	---	---					
23	---				---	---	---					
24	---				---	---	---					
25	---				---	---	---					
26	---				---	---	---					
27	---				---	---	---					
28	---				---	---	---					
29	.18				2.5	---	---					
30	.05				---	---	---					
31	---				---	---	---					
TOTAL												
MEAN												
MAX												
MIN												
AC-FT												

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SEDIMENT RECORDS: Water years 1972-76 (discontinued).

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
MAR 02...	1300	8.5	1.5	370	1.5	35	47

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
MAR 02...	61	76	86	92	95	98	100

11460000 CORTE MADERA CREEK AT ROSS, CA

LOCATION.--Lat 37°57'45", long 122°33'20", in Punta de Quentin Grant, Marin County, on left bank behind fire station at Ross, 1.7 mi (2.7 km) southwest of San Rafael, and 4 mi (6 km) upstream from mouth.

DRAINAGE AREA.--18.1 mi^2 (46.9 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 7.97 ft (2.429 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records fair except those below 2.0 ft^3/s (0.057 m^3/s), which are poor. Flow regulated by Phoenix Lake 1.7 mi (2.7 km) upstream, capacity, 612 acre-ft (755,000 m^3). Diversion on tributary above station by Marin Municipal Water District.

AVERAGE DISCHARGE.--25 years, 28.0 ft^3/s (0.793 m^3/s), 20,290 acre-ft/yr (25.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,620 ft^3/s (103 m^3/s) Dec. 22, 1955, gage height, 17.45 ft (5.319 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 330 ft^3/s (9.35 m^3/s) Oct. 9, gage height, 8.37 ft (2.551 m), no peak above base of 1,000 ft^3/s (28 m^3/s); minimum daily, 0.02 ft^3/s (0.001 m^3/s) June 27, 28, Sept. 19-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	2.2	1.5	1.0	.84	9.2	2.7	2.0	.56	.04	.05	.03
2	.50	2.2	1.3	.96	.84	61	2.0	2.0	.52	.04	.06	.03
3	.51	2.4	1.2	1.0	1.0	21	3.9	2.0	.49	.04	.06	.03
4	.52	2.6	1.2	1.1	1.5	8.7	3.3	2.0	.46	.04	.06	.03
5	.52	2.8	1.5	1.3	6.0	5.4	4.9	3.3	.42	.05	.06	.03
6	.53	3.0	1.2	1.2	3.3	4.1	6.6	2.0	.38	.05	.06	.03
7	.53	6.2	1.2	1.0	2.7	3.6	15	1.9	.35	.05	.06	.03
8	.53	5.4	1.2	2.2	2.5	3.3	38	1.7	.32	.05	.06	.03
9	56	3.8	1.0	3.5	2.4	3.0	5.5	1.9	.28	.05	.06	.03
10	40	5.9	.76	1.2	2.1	3.0	12	1.7	.25	.05	.06	.03
11	27	1.2	.64	1.0	1.8	2.8	7.0	1.7	.23	.05	.07	.03
12	3.6	1.2	5.8	.96	1.6	2.8	8.2	1.7	.21	.05	.07	.03
13	2.8	1.3	1.4	.90	2.4	2.6	6.2	1.5	.19	.05	.08	.03
14	3.6	1.3	1.2	.86	6.6	2.6	5.4	1.5	.17	.05	.35	.03
15	3.3	2.0	1.1	.82	4.8	2.6	3.8	1.5	.15	.05	2.0	.03
16	1.9	1.9	1.1	.82	3.0	2.6	3.0	1.5	.13	.05	.24	.03
17	1.7	1.5	1.0	.82	3.0	2.6	2.8	1.3	.11	.05	.12	.03
18	1.9	1.5	1.0	.84	3.6	8.9	2.8	1.3	.10	.05	1.3	.03
19	2.0	1.5	1.0	.94	7.8	4.0	2.8	1.5	.09	.04	2.0	.02
20	1.9	1.7	1.3	.90	3.3	2.8	2.8	1.3	.08	.04	.18	.02
21	1.9	1.5	11	.84	2.8	2.5	2.6	1.5	.07	.04	.12	.02
22	2.0	1.2	5.5	.78	3.0	2.3	2.6	1.2	.06	.04	.08	.02
23	2.0	1.2	1.9	.80	3.3	2.2	2.6	1.2	.05	.04	.06	.02
24	2.0	1.3	1.6	.84	3.3	7.2	2.4	1.0	.04	.04	.05	.02
25	2.2	1.3	1.5	.92	3.3	3.8	2.4	1.2	.04	.03	.04	.02
26	8.0	1.5	1.4	.84	3.0	2.6	2.4	1.3	.03	.03	.04	.05
27	2.4	1.5	1.3	.82	3.0	2.4	2.4	.83	.02	.03	.04	1.4
28	2.0	1.7	1.3	.80	3.3	2.3	2.2	.76	.02	.03	.04	1.2
29	2.0	1.5	1.2	.84	66	2.2	2.2	.72	.03	.03	.04	.54
30	20	1.5	1.1	.90	---	2.1	2.2	.66	.03	.04	.03	.18
31	2.8	---	1.0	.86	---	3.8	---	.62	---	.04	.03	---
TOTAL	197.14	65.8	56.40	32.56	152.08	190.0	162.7	46.29	5.88	1.33	7.57	4.05
MEAN	6.36	2.19	1.82	1.05	5.24	6.13	5.42	1.49	.20	.043	.24	.14
MAX	56	6.2	11	3.5	66	61	38	3.3	.56	.05	2.0	1.4
MIN	.50	1.2	.64	.78	.84	2.1	2.0	.62	.02	.03	.03	.02
AC-FT	391	131	112	65	302	377	323	92	12	2.6	15	8.0

CAL YR 1975	TOTAL	10251.61	MEAN 28.1	MAX 862	MIN .44	AC-FT	20330	
WTR YR 1976	TOTAL	921.80	MEAN 2.52	MAX 66	MIN .02	AC-FT	1830	

NOTE.--Stage-discharge relation indefinite May 27 to Aug. 12, Aug. 22 to Sept. 26.

11460100 ARROYO CORTE MADERA DEL PRESIDIO AT MILL VALLEY, CA

LOCATION.--Lat 37°53'50", long 122°32'06", in Sausalito Grant, Marin County, on right bank near south boundary of town of Mill Valley, 1 mi (2 km) upstream from mouth.

DRAINAGE AREA.--4.69 mi^2 (12.15 km^2).

PERIOD OF RECORD.--October 1965 to September 1973, May 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1.85 ft (0.564 m) above mean sea level.

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

AVERAGE DISCHARGE.--9 years, 7.22 ft^3/s (0.204 m^3/s), 5,230 acre-ft/yr (6.45 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,180 ft^3/s (33.4 m^3/s) Jan. 21, 1970, gage height, 7.52 ft (2.292 m); no flow for many days in 1968, 1975-76.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 139 ft^3/s (3.94 m^3/s) Oct. 26, gage height, 4.33 ft (1.320 m), no peak above base of 220 ft^3/s (6.2 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.25	1.3	.76	.61	.45	7.9	.66	.50	.19	.08	.04	.08
2	.25	1.1	.72	.62	.44	29	.61	.50	.18	.09	.04	.08
3	.23	.98	.71	1.0	.44	13	.62	.44	.18	.09	.04	.07
4	.23	.71	.65	.78	.58	6.1	.66	.45	.13	.09	.01	.08
5	.23	.81	.79	.71	1.8	4.3	.67	.45	.11	.09	.04	.08
6	.23	.76	.71	.70	.73	3.4	.86	.42	.14	.07	.04	.15
7	.23	1.3	.67	.65	.60	2.5	3.8	.38	.11	.06	.07	.14
8	.25	.92	.66	.60	.60	2.0	5.1	.40	.08	.06	.06	.21
9	9.5	.76	.66	1.3	.57	1.7	2.9	.44	.38	.07	.08	.36
10	2.1	3.1	.62	.62	.53	1.5	3.8	.41	.53	.05	.07	.23
11	.81	1.2	.56	.54	.49	1.3	2.3	.38	.17	.05	.08	.08
12	.07	.89	2.3	.57	.49	1.2	1.9	.34	.14	.05	.08	.04
13	0	.81	.94	.54	.72	1.0	1.6	.32	.12	.05	.08	.01
14	0	.76	.78	.53	3.0	.94	1.3	.31	.10	.06	.28	0
15	0	15	.71	.49	3.2	.90	1.1	.32	.09	.07	.99	0
16	0	9.5	.71	.49	5.4	.85	.88	.28	.09	.09	.27	0
17	0	4.0	.69	.50	1.8	.81	.93	.29	.08	.09	.19	.01
18	0	1.8	.66	.53	1.5	1.7	.87	.29	.09	.05	.48	.01
19	.11	1.6	.64	.54	2.7	.88	.91	.25	.09	.14	.43	0
20	0	1.5	.61	.51	1.5	.79	.78	.25	.10	.12	.27	0
21	0	1.2	2.7	.45	1.2	.76	.77	.24	.09	.13	.21	0
22	0	1.1	2.3	.41	1.0	.74	.75	.27	.09	.12	.19	0
23	0	.98	1.3	.43	.90	.70	.73	.25	.10	.15	.13	0
24	0	.91	1.1	.48	.80	1.8	.71	.24	.10	.17	.11	0
25	2.1	.81	.98	.48	.76	.90	.57	.24	.09	.19	.13	0
26	28	.81	.92	.45	.90	.75	.56	.23	.09	.18	.15	0
27	2.8	.81	.89	.45	.78	.69	.55	.21	.08	.16	.12	.15
28	1.3	.76	.82	.45	.81	.65	.54	.21	.09	.12	.12	.38
29	2.1	.71	.79	.45	24	.67	.53	.18	.11	.09	.08	.29
30	5.3	.71	.71	.53	---	.64	.53	.19	.10	.09	.07	.17
31	2.2	---	.64	.47	---	.85	---	.19	---	.07	.08	---
TOTAL	58.29	57.60	28.70	17.88	58.69	90.92	38.49	9.87	4.04	2.99	5.03	2.62
MEAN	1.88	1.92	.93	.58	2.02	2.93	1.28	.32	.13	.097	.16	.087
MAX	28	15	2.7	1.3	24	29	5.1	.50	.53	.19	.99	.38
MIN	0	.71	.56	.41	.44	.64	.53	.18	.08	.05	.01	0
AC-FT	116	114	57	35	116	180	76	20	8.0	5.9	10.0	5.2

WTR YR 1976 TOTAL 375.12 MEAN 1.02 MAX 29 MIN 0 AC-FT 744

11460600 LAGUNITAS CREEK NEAR POINT REYES STATION, CA

LOCATION.--Lat 39°04'49", long 122°47'00", in Nicasio (Black) Grant, Marin County, on right bank at upstream side of road bridge, 300 ft (91 m) downstream from small right-bank tributary, and 1.4 mi (2.3 km) northeast of town of Point Reyes Station.

DRAINAGE AREA.--81.7 mi^2 (211.6 km^2).

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 50 ft (15 m), from topographic map.

REMARKS.--Records good. Flow regulated by Nicasio Reservoir, capacity, 22,450 acre-ft (27.7 hm^3), Kent Lake, capacity, 16,680 acre-ft (20.6 hm^3), and Alpine Lake, capacity, 8,890 acre-ft (11.0 hm^3), all of which divert water for domestic and industrial use in the count of Marin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,210 ft^3/s (204 m^3/s) Mar. 21, 1975, gage height, 16.39 ft (4.996 m), from rating curve extended above 1,300 ft^3/s (36.8 m^3/s); minimum daily, 0.30 ft^3/s (0.008 m^3/s) June 27-29, July 17, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 277 ft^3/s (7.84 m^3/s) Feb. 29, gage height, 4.67 ft (1.423 m); minimum daily, 0.30 ft^3/s (0.008 m^3/s) June 27-29, July 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	6.6	2.2	2.8	1.7	52	2.6	2.7	.91	2.8	1.5	3.3
2	3.0	5.0	2.2	2.8	1.7	74	2.6	2.7	.91	3.6	1.3	3.1
3	2.9	4.0	2.2	2.7	1.6	59	2.5	2.7	1.3	3.5	1.2	3.0
4	3.0	3.6	2.2	2.7	1.6	30	2.6	2.6	1.8	.98	1.2	3.0
5	3.1	3.4	2.1	2.7	1.6	17	2.7	2.6	1.9	.60	3.5	3.0
6	3.1	3.1	2.1	2.7	1.6	12	2.7	2.6	1.9	.35	1.6	2.9
7	2.6	3.0	2.2	2.7	1.6	9.7	18	2.3	1.9	3.1	1.5	2.9
8	2.6	3.0	2.2	2.7	1.6	8.3	75	2.3	1.1	.82	1.4	2.9
9	3.8	2.9	2.1	2.8	1.6	7.1	36	2.3	1.2	.41	1.4	2.8
10	29	4.3	2.1	3.1	1.6	6.5	27	2.4	1.7	3.4	3.3	2.7
11	8.1	5.2	2.1	2.9	1.6	6.0	26	2.4	1.8	.74	1.5	2.8
12	4.3	3.8	2.2	2.7	1.6	5.4	22	2.3	1.9	.53	1.3	2.8
13	3.1	3.4	2.3	2.6	3.4	5.1	16	2.0	1.9	.41	1.4	2.8
14	2.7	3.2	2.7	2.5	5.0	4.8	12	2.0	1.6	.35	3.6	2.5
15	2.6	3.7	2.5	2.5	10	4.6	9.7	2.0	1.7	3.3	2.0	1.6
16	2.4	8.0	2.3	2.4	11	4.3	8.1	2.0	1.2	.67	1.5	1.4
17	2.4	6.5	2.2	2.4	11	4.2	7.0	1.9	.95	.30	1.5	1.3
18	2.4	5.2	2.1	2.3	10	4.0	6.3	1.9	.90	2.9	1.6	1.3
19	2.3	3.7	2.1	2.3	13	4.3	5.9	1.8	.86	1.7	1.6	1.3
20	2.3	3.3	2.1	2.2	14	3.7	5.4	1.8	.86	1.6	1.5	1.3
21	2.2	3.3	2.1	2.1	12	3.6	5.1	1.8	.94	1.6	1.8	1.1
22	2.2	2.9	7.2	2.0	11	3.4	4.8	1.8	.97	3.6	.98	.98
23	2.1	2.7	5.7	2.0	10	3.3	4.5	1.7	.94	1.6	.74	1.1
24	2.1	2.6	4.2	2.0	9.8	3.1	4.2	1.7	.82	1.4	.60	1.1
25	2.1	2.5	3.7	2.0	9.5	3.1	3.9	1.7	.57	1.4	.47	1.1
26	11	2.3	3.5	1.9	9.2	3.1	3.5	1.7	.40	1.4	.47	1.1
27	7.7	2.3	3.3	1.9	9.1	3.0	3.2	1.6	.30	3.6	.47	1.3
28	4.2	2.3	3.2	1.8	8.9	2.9	3.3	1.6	.30	1.6	.47	1.6
29	3.3	2.3	3.1	1.8	74	2.7	3.2	1.5	.30	1.4	.47	1.5
30	24	2.2	3.0	1.8	---	2.6	2.9	1.2	.31	1.5	.47	1.4
31	12	---	2.9	1.8	---	2.6	---	.91	---	3.8	3.3	---
TOTAL	161.6	110.3	86.1	73.6	250.3	355.4	328.7	62.51	34.14	54.96	45.64	60.98
MEAN	5.21	3.68	2.78	2.37	8.63	11.5	11.0	2.02	1.14	1.77	1.47	2.03
MAX	29	8.0	7.2	3.1	74	74	75	2.7	1.9	3.8	3.6	3.3
MIN	2.1	2.2	2.1	1.8	1.6	2.6	2.5	.91	.30	.30	.47	.98
AC-FT	321	219	171	146	496	705	652	124	68	109	91	121

CAL YR 1975 TOTAL 26677.00 MEAN 73.1 MAX 3090 MIN 2.1 AC-FT 52910
WTR YR 1976 TOTAL 1624.23 MEAN 4.44 MAX 75 MIN .30 AC-FT 3220

11460800 WALKER CREEK NEAR TOMALES, CA

LOCATION.--Lat 38°12'35", long 122°51'35", in Nicasio Grant, Marin County, on left bank 1,300 ft (396 m) upstream from Chileno Creek, and 3.5 mi (5.6 km) southeast of Tomales.

DRAINAGE AREA.--37.1 mi^2 (96.1 km^2).

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 56.74 ft (17.294 m) above mean sea level.

REMARKS.--Records good except those for period of no gage-height record, which are fair. No regulation; small diversions above station for irrigation of about 50 acres (202,000 m^2) and stock watering.

AVERAGE DISCHARGE.--17 years, 45.5 ft^3/s (1.289 m^3/s), 32,960 acre-ft/yr (40.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,420 ft^3/s (153 m^3/s) Jan. 5, 1966, gage height, 22.23 ft (6.776 m); maximum gage height, 22.91 ft (6.983 m) Jan. 16, 1973; no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 149 ft^3/s (4.22 m^3/s) Mar. 2, gage height, 5.89 ft (1.795 m), no peak above base of 2,000 ft^3/s (57 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.80	.34	.58	.52	21	.58	.85	.02	0		
2	0	.47	.38	.58	.52	74	.57	.84	.02	0		
3	0	.38	.38	.58	.52	38	.57	.76	.02	0		
4	0	.34	.39	.58	.58	16	.57	.77	.02	0		
5	0	.38	.65	.65	.89	11	.56	.73	.02	0		
6	0	.34	.65	.65	.89	7.2	5.0	.62	.02	0		
7	0	.47	.58	.65	.72	5.9	7.0	.55	.02	0		
8	0	.65	.52	.65	.72	4.7	14	.47	.02	.01		
9	.02	.52	.43	.99	.72	3.9	8.0	.48	.02	0		
10	.05	.80	.43	1.1	.58	3.4	11	.49	.02	0		
11	.05	.89	.43	.89	.58	2.6	10	.46	.03	0		
12	.05	.65	.65	.72	.58	1.9	11	.37	.03	.01		
13	.05	.45	.89	.65	.99	1.5	7.7	.31	.02	.01		
14	.05	.38	.65	.52	2.0	1.1	5.9	.26	.02	0		
15	.03	1.1	.58	.52	2.2	.89	5.2	.21	.02	0		
16	.03	2.4	.52	.52	3.0	.80	4.6	.20	.03	0		
17	.05	1.3	.52	.52	3.9	.78	4.1	.16	.02	0		
18	.08	.89	.52	.52	2.6	.74	3.7	.12	.02	0		
19	.08	.47	.52	.52	3.9	.71	3.3	.10	.02	0		
20	.08	.52	.52	.47	3.4	.68	3.0	.08	.02	0		
21	.08	.52	.89	.47	2.4	.66	2.6	.08	.02	0		
22	.12	.47	2.6	.47	2.6	.70	2.4	.07	.02	0		
23	.12	.38	1.6	.47	2.2	.63	2.1	.07	.01	0		
24	.15	.38	1.1	.52	2.0	.61	1.8	.07	0	0		
25	.19	.34	.89	.52	1.7	.60	1.6	.05	0	0		
26	4.2	.34	.80	.47	2.0	.60	1.4	.04	0	0		
27	1.7	.38	.80	.47	2.2	.60	1.2	.04	0	0		
28	.72	.38	.72	.47	1.9	.60	1.1	.04	0	0		
29	.52	.34	.65	.47	24	.59	1.0	.03	0	0		
30	2.0	.34	.65	.52	---	.59	.98	.02	0	0		
31	1.5	---	.65	.52	---	.58	---	.03	---	0		---
TOTAL	11.92	18.07	21.90	18.23	70.81	203.56	122.53	9.37	.48	.03	0	0
MEAN	.38	.60	.71	.59	2.44	6.57	4.08	.30	.016	.001	0	0
MAX	4.2	2.4	2.6	1.1	24	74	14	.85	.03	.01	0	0
MIN	0	.34	.34	.47	.52	.58	.56	.02	0	0	0	0
AC-FT	24	36	43	36	140	404	243	19	1.0	.06	0	0

CAL YR 1975	TOTAL	16263.47	MEAN	44.6	MAX	1860	MIN	0	AC-FT	32260
WTR YR 1976	TOTAL	476.90	MEAN	1.30	MAX	74	MIN	0	AC-FT	946

NOTE.--No gage-height record Mar. 17 to Apr. 26.

11461000 RUSSIAN RIVER NEAR UKIAH, CA

LOCATION.--Lat 39°11'44", long 123°11'38", in Yokaya Grant (corrected), Mendocino County, on right bank 20 ft (6 m) downstream from bridge on Lake Mendocino Drive, 0.4 mi (0.6 km) upstream from East Fork, 0.6 mi (1.0 km) downstream from York Creek, and 3.2 mi (5.1 km) north of Ukiah.

DRAINAGE AREA.--100 mi^2 (259 km^2).

PERIOD OF RECORD.--August 1911 to September 1913, October 1952 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder. 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.

REMARKS.--Records good. No regulation. Diversions above station for irrigation of about 1,000 acres (4.05 km^2).

COOPERATION.--Six discharge measurements were furnished by Sonoma County Water Agency.

AVERAGE DISCHARGE.--26 years, 181 ft^3/s (5.126 m^3/s), 131,100 acre-ft/yr (162 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,900 ft^3/s (535 m^3/s) Dec. 21, 1955, gage height, 19.0 ft (5.79 m) site and datum then in use; no flow at times in 1911, 1952-53, 1960-61, 1964-65, 1970-73, 1975-76.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,400 ft^3/s (96.3 m^3/s) Feb. 29, gage height, 13.37 ft (4.075 m), no peak above base of 4,000 ft^3/s (113 m^3/s); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.09	8.4	12	17	9.6	654	24	27	4.1	.10	0	.11
2	.11	5.9	17	15	9.5	501	19	27	3.8	.10	0	.11
3	.17	4.9	16	15	9.5	405	21	27	4.3	.09	0	.10
4	.17	4.2	130	15	9.4	304	22	24	2.9	.09	0	.10
5	.17	4.2	946	15	9.3	223	23	22	2.7	.16	0	.10
6	.17	3.9	305	15	9.3	170	27	22	2.9	.16	0	.10
7	.24	7.1	138	15	9.2	139	111	20	3.2	.16	0	.10
8	.24	11	89	15	9.2	117	312	18	2.3	.16	0	.10
9	3.1	8.0	63	111	9.1	99	170	17	2.9	.06	0	.10
10	9.8	46	48	78	9.0	86	430	16	3.6	.04	0	.09
11	8.0	33	39	54	9.0	74	366	15	4.2	.04	0	.08
12	4.9	17	63	40	9.1	64	429	10	4.2	.06	0	.07
13	3.9	12	50	32	10	57	275	6.4	3.6	.06	0	.06
14	3.9	9.4	39	26	23	53	181	5.8	2.9	.06	0	.05
15	3.6	324	31	22	119	50	142	7.7	2.8	.09	0	.04
16	3.4	218	28	18	319	45	109	7.6	2.8	.09	0	.04
17	3.4	83	26	16	215	42	91	8.1	1.7	.16	.04	.06
18	3.4	47	23	15	240	46	83	7.7	.93	.16	.08	.06
19	3.1	31	21	14	446	55	72	8.0	2.4	.16	.13	.06
20	3.1	27	19	13	268	43	63	8.6	2.4	.07	.49	.06
21	6.3	22	22	12	167	39	57	8.0	2.2	0	1.0	.06
22	2.9	17	71	12	117	36	51	6.1	2.4	0	.64	.04
23	2.1	15	44	11	89	33	47	6.7	1.7	0	.64	0
24	2.1	13	34	11	72	34	42	6.4	.42	0	.49	0
25	8.9	12	29	11	780	36	40	4.5	.17	0	.38	0
26	52	12	28	10	1680	32	33	3.5	.40	0	.49	0
27	12	12	27	10	1320	29	30	2.6	.27	0	.16	0
28	5.9	12	23	10	698	28	29	2.2	.01	0	.04	0
29	4.2	11	21	10	1450	26	28	2.0	0	0	.13	0
30	23	10	19	9.8	---	26	28	3.2	.01	0	.12	0
31	18	---	17	9.7	---	26	---	3.7	---	0	.12	---
TOTAL	192.36	1041.0	2438	677.5	8124.2	3572	3355	353.8	68.21	2.07	4.95	1.69
MEAN	6.21	34.7	78.6	21.9	280	115	112	11.4	2.27	.067	.16	.056
MAX	52	324	946	111	1680	654	430	27	4.3	.16	1.0	.11
MIN	.09	3.9	12	9.7	9.0	26	19	2.0	0	0	0	0
AC-FT	382	2060	4840	1340	16110	7090	6650	702	135	4.1	9.8	3.4

CAL YR 1975 TOTAL 86418.39 MEAN 237 MAX 4430 MIN 0 AC-FT 171400
WTR YR 1976 TOTAL 19830.78 MEAN 54.2 MAX 1680 MIN 0 AC-FT 39330

NOTE.--No gage-height record Jan. 12 to Feb. 12.

11461500 EAST FORK RUSSIAN RIVER NEAR CALPELLA, CA

LOCATION.--Lat 39°14'48", long 123°07'45", in NW¼NW¼ sec.18, T.16 N., R.11 W., Mendocino County, on left bank 0.1 mi (0.2 km) downstream from Cold Creek, and 3.9 mi (6.3 km) east of Calpella.

DRAINAGE AREA.--92.2 mi^2 (238.8 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 787.87 ft (240.143 m) above mean sea level. Prior to May 28, 1957, at site 1.3 mi (2.1 km) downstream at different datum. May 28, 1957, to Apr. 5, 1966, at site 0.4 mi (0.6 km) downstream at same datum.

REMARKS.--Records good. Flow greatly affected by diversion from Eel River through Potter Valley powerhouse (station 11471000). Diversion for irrigation of about 8,000 acres (32.4 km^2) above station.

COOPERATION.--Five discharge measurements were furnished by Sonoma County Water Agency.

AVERAGE DISCHARGE.--35 years, 339 ft^3/s (9.600 m^3/s), 245,600 acre-ft/yr (303 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,700 ft^3/s (530 m^3/s) Dec. 22, 1964, gage height, 20.21 ft (6.160 m) site then in use; minimum daily, 3.8 ft^3/s (0.11 m^3/s) Oct. 30, 31, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,830 ft^3/s (80.1 m^3/s) Feb. 29, gage height, 11.48 ft (3.499 m), no peak above base of 3,300 ft^3/s (93 m^3/s); minimum daily, 32 ft^3/s (0.91 m^3/s) May 7, June 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	278	317	180	289	67	582	59	82	45	52	56	46
2	282	310	295	289	65	618	59	80	53	56	56	56
3	292	308	293	289	65	567	62	64	49	63	59	52
4	292	306	298	286	66	444	62	54	57	63	68	49
5	304	307	760	280	64	329	65	52	49	62	66	48
6	311	304	380	183	65	266	65	45	44	57	64	67
7	314	309	347	145	65	229	160	32	54	57	66	83
8	291	308	234	145	65	208	424	39	55	72	70	284
9	324	306	272	186	64	189	274	52	50	72	78	288
10	326	342	309	166	60	173	508	44	50	64	62	297
11	316	313	309	155	56	158	469	38	50	53	52	289
12	318	291	309	153	47	143	458	35	48	59	66	263
13	316	304	318	153	55	137	315	38	45	59	69	123
14	316	299	306	145	63	128	256	44	54	54	74	112
15	306	470	306	147	86	115	229	41	45	45	108	73
16	306	313	306	143	119	106	187	50	42	38	107	140
17	313	298	303	143	131	95	170	56	37	47	110	297
18	312	302	303	141	119	91	155	57	46	50	119	279
19	316	300	303	143	328	90	140	60	46	57	114	272
20	312	330	303	87	193	94	132	56	48	54	106	276
21	284	300	306	84	125	84	129	50	43	59	104	283
22	256	298	331	82	98	72	125	54	37	51	107	262
23	285	295	315	79	82	70	129	43	45	68	99	287
24	293	300	309	79	76	72	124	46	48	59	101	276
25	303	300	309	79	638	94	111	41	54	57	96	235
26	347	298	303	78	1280	80	108	40	47	62	98	298
27	317	300	303	75	1020	86	96	44	52	39	89	260
28	310	315	300	76	575	76	78	44	62	39	89	318
29	303	300	294	78	1200	78	82	50	32	39	73	317
30	327	235	289	76	---	71	78	61	34	48	59	309
31	316	---	286	67	---	73	---	50	---	51	46	---
TOTAL	9486	9278	9779	4521	6937	5618	5309	1542	1421	1706	2531	6239
MEAN	306	309	315	146	239	181	177	49.7	47.4	55.0	81.6	208
MAX	347	470	760	289	1280	618	508	82	62	72	119	318
MIN	256	235	180	67	47	70	59	32	32	38	46	46
AC-FT	18820	18400	19400	8970	13760	11140	10530	3060	2820	3380	5020	12380

CAL YR 1975 TOTAL 144025 MEAN 395 MAX 3170 MIN 118 AC-FT 285700
WTR YR 1976 TOTAL 64367 MEAN 176 MAX 1280 MIN 32 AC-FT 127700

11461500 EAST FORK RUSSIAN RIVER NEAR CALPELLA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951-58, 1964 to current year.
CHEMICAL ANALYSES: Water years 1951-58, 1973 to current year.
WATER TEMPERATURES: Water years 1964 to current year.
SEDIMENT RECORDS: Water years 1964, 1967-68.
TURBIDITY: Water years 1964-71.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: March 1964 to current year.
SEDIMENT RECORDS: March to September 1964, October 1966 to September 1968.

INSTRUMENTATION.--Temperature recorder since August 1965.

COOPERATION.--The letter "A" following a date indicates chemical-quality data furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1966, 1968-76), 29.0°C Aug. 11, 1971, July 1, 1972; minimum (water years 1966-67, 1969-70, 1972-76), 2.0°C Dec. 12, 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 26.0°C July 25, 26, Aug. 10; minimum, 3.5°C Jan. 2.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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)	PER-CENT SATUR-ATION
OCT									
02...A	1150	--	288	158	7.8	18.5	--	--	--
03...A	0935	--	295	158	8.0	18.0	4	--	--
03...A	0950	--	295	156	7.5	20.0	3	--	--
17...A	1010	--	313	170	7.8	16.0	4	--	--
31...A	0950	--	316	182	8.0	12.0	7	--	--
NOV									
12...	1140	--	290	180	8.2	10.5	--	--	--
14...A	0950	--	304	191	7.9	11.0	6	--	--
28...A	0950	--	310	203	7.8	7.0	5	--	--
DEC									
05...	1100	--	792	157	7.5	9.0	--	--	--
05...A	1535	--	900	160	7.6	--	--	--	--
12...A	0940	--	328	203	7.9	9.0	2	--	--
24...A	0940	--	310	208	7.9	6.0	15	--	--
JAN									
07...	1045	--	144	223	7.8	4.5	--	--	--
09...A	1015	--	184	296	7.8	7.0	20	--	--
23...A	0945	--	81	321	8.0	5.0	5	--	--
FEB									
06...A	0945	--	64	378	8.1	4.0	3	--	--
13...	1145	--	57	258	8.4	7.5	--	--	--
13...A	1525	--	49	191	7.5	8.0	--	--	--
20...A	1050	--	174	258	7.9	6.0	5	--	--
MAR									
05...A	1105	--	347	244	7.8	7.0	20	--	--
19...A	0935	90	--	249	8.1	9.0	30	--	--
24...	1150	--	73	207	7.9	10.0	--	--	--
APR									
16...A	0921	--	171	200	8.0	--	7	--	--
22...	1350	--	129	195	7.8	15.5	--	--	--
24...A	0940	--	115	217	8.0	--	8	--	--
MAY									
03...A	1100	--	79	202	8.1	14.0	2	--	--
14...A	0920	--	44	195	8.0	17.0	3	--	--
21...	1120	--	52	208	8.1	17.0	--	--	--
28...A	0940	--	34	236	8.0	15.0	2	--	--
JUN									
11...A	0950	--	52	224	7.9	15.0	3	--	--
17...	1000	--	43	222	7.8	19.5	--	8.8	98
25...A	1005	--	63	221	8.0	20.0	3	--	--
JUL									
09...A	0955	--	71	204	8.0	20.0	4	--	--
14...	1030	--	57	202	7.6	21.0	--	--	--
23...A	1040	--	73	185	7.9	22.0	6	--	--
AUG									
06...A	1010	--	63	199	7.9	18.0	2	--	--
11...	1500	--	63	205	8.2	23.0	--	--	--
20...A	1010	--	105	189	7.9	18.0	3	--	--
SEP									
03...A	0930	--	55	211	7.7	19.0	3	--	--
16...	1400	--	129	171	7.6	17.5	--	9.6	100
17...A	1015	--	304	182	7.8	16.0	6	--	--

11461500 EAST FORK RUSSIAN RIVER NEAR CALPELLA, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)
OCT 02...	1150	--	--	.03	.03	.06	.00	.18	.23
NOV 12...	1140	--	--	.14	.11	.04	.02	.07	.09
DEC 05...	1100	--	--	.25	.25	.04	.04	.34	.00
JAN 07...	1045	--	--	.14	.11	.00	.04	.87	.03
FEB 13...	1145	--	--	.04	.03	.04	--	.10	--
MAR 24...	1150	--	--	.16	.17	.00	.00	.05	.22
APR 22...	1350	.10	.00	.11	.10	.02	.02	.09	.00
MAY 21...	1120	.05	.00	.05	.05	.00	.00	.23	.14
JUN 17...	1000	.11	.01	.12	.12	.03	.03	.33	.37
JUL 14...	1030	.08	.01	.09	.09	.04	.04	.30	.30
AUG 11...	1500	.07	.01	.10	.08	.01	.00	.20	.00
SEP 16...	1400	.00	.00	.06	.00	.00	.00	.20	.33

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	SUS-PENDED KJEL. NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (P04) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	SUS-PENDED ORGANIC CARBON (C) (MG/L)
OCT 02...	.24	.01	.23	.27	.04	.01	.03	2.9	.3
NOV 12...	.11	.00	.11	.25	.03	.01	.03	3.1	.3
DEC 05...	.38	.38	.00	.63	.22	.04	.12	8.0	2.7
JAN 07...	.87	.80	.07	1.0	.04	.00	.00	10	.6
FEB 13...	.14	.03	.11	.18	.00	.00	.00	1.9	--
MAR 24...	.05	.00	.22	.21	.02	.00	.00	2.9	--
APR 22...	.11	.09	.02	.22	.02	.01	.03	1.9	.3
MAY 21...	.23	.09	.14	.28	.02	.01	.03	1.6	--
JUN 17...	.36	.00	.40	.48	.09	.05	.15	19	.9
JUL 14...	.34	.00	.34	.43	.09	.06	.18	1.8	2.0
AUG 11...	.21	.21	.00	.31	.10	.05	.15	4.0	9.2
SEP 16...	.20	.00	.33	.26	.03	.03	.09	2.1	.4

11461500 EAST FORK RUSSIAN RIVER NEAR CALPELLA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	12.5	12.0	9.0	8.0	4.5	4.0	7.0	6.0	9.0	7.5
2	---	---	13.0	12.0	9.0	8.0	4.0	3.5	8.0	6.5	7.5	6.0
3	20.0	18.0	13.0	12.5	8.0	7.5	5.0	4.0	9.0	6.5	8.5	6.0
4	19.5	18.0	13.0	12.5	8.5	7.5	5.5	5.0	7.5	6.5	8.5	6.5
5	19.5	18.0	12.5	12.5	9.5	8.5	6.5	5.5	7.5	6.0	8.5	6.5
6	19.0	17.5	13.0	12.0	9.5	9.0	6.0	5.0	6.5	5.0	9.0	7.0
7	18.0	17.0	13.0	12.5	9.0	8.5	6.0	4.5	6.5	4.5	9.5	7.5
8	17.5	16.5	13.0	11.5	9.0	7.5	6.5	5.5	7.0	5.5	10.5	9.0
9	16.5	16.0	11.5	11.0	8.0	7.5	7.5	6.5	8.0	5.5	11.0	9.0
10	17.0	16.0	11.0	11.0	8.0	7.5	6.5	5.5	7.5	5.0	11.5	9.0
11	17.5	17.0	11.0	10.0	8.0	7.5	6.0	5.5	8.0	5.0	11.5	9.0
12	17.0	16.0	10.5	10.0	9.0	7.5	7.0	6.0	9.0	5.0	12.0	9.0
13	17.0	16.0	10.5	10.0	7.5	6.5	6.5	6.0	8.0	6.5	12.0	9.0
14	16.5	15.5	11.0	10.0	6.5	6.0	6.5	5.5	8.0	7.0	11.5	8.0
15	16.5	15.5	11.0	10.5	6.5	6.0	6.5	5.5	8.5	7.5	12.5	10.0
16	16.5	15.5	11.0	9.5	6.5	6.0	6.5	5.5	8.5	7.5	13.0	10.0
17	16.5	15.5	9.5	9.0	7.0	6.0	6.5	5.5	9.5	8.5	14.0	10.0
18	17.0	16.0	9.0	8.5	6.5	6.0	6.5	5.5	10.0	8.5	12.5	10.0
19	16.5	15.5	9.0	8.0	6.5	6.0	6.0	5.0	9.0	8.5	12.0	9.0
20	16.5	15.5	10.0	9.0	6.5	6.0	6.5	5.0	8.5	7.0	12.0	7.5
21	16.5	16.0	9.0	8.5	6.5	6.0	6.0	4.5	8.0	7.0	13.5	8.0
22	16.0	14.0	9.0	8.5	7.0	6.0	6.5	4.5	9.0	7.0	12.0	9.0
23	14.0	13.0	9.0	8.5	6.5	6.5	6.0	5.0	8.5	7.0	12.0	8.5
24	14.0	13.0	9.0	8.5	6.5	6.0	6.5	5.0	9.5	7.0	11.0	8.5
25	14.0	14.0	9.0	8.5	6.5	6.0	6.0	4.5	10.0	8.5	12.5	7.5
26	14.5	14.0	9.0	8.5	6.5	6.0	6.0	4.5	11.5	9.5	12.0	8.0
27	14.0	13.0	9.0	8.0	7.0	6.5	6.0	4.0	12.0	10.0	11.5	8.0
28	14.0	13.5	8.0	7.0	6.5	6.0	6.0	4.0	11.5	10.0	14.0	9.0
29	13.5	12.5	7.5	6.5	6.5	6.0	6.0	4.5	11.5	9.0	13.5	7.5
30	13.5	13.0	8.0	7.5	6.0	5.0	6.5	4.5	---	---	16.0	9.5
31	13.0	12.0	---	---	5.0	4.0	7.0	5.0	---	---	13.5	7.0
MONTH	20.0	12.0	13.0	6.5	9.5	4.0	7.5	3.5	12.0	4.5	16.0	6.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	17.0	12.0			---	---	24.0	18.5	---	---
2	---	---	17.0	11.5			---	---	24.0	18.5	---	---
3	13.0	7.5	18.0	11.5			22.5	16.5	20.0	18.5	---	---
4	---	---	17.5	11.5			23.5	17.5	22.5	17.0	---	---
5	12.0	9.5	18.0	11.0			24.0	18.0	22.0	16.5	---	---
6	13.0	9.5	18.0	11.5			24.0	17.5	21.5	18.0	---	---
7	11.0	9.5	---	---			24.5	18.5	22.0	18.5	---	---
8	11.0	9.5	---	---			25.0	19.5	22.5	17.5	---	---
9	10.0	9.0	---	---			23.5	20.0	23.0	18.0	---	---
10	10.5	9.0	---	---			25.0	19.0	26.0	18.5	---	---
11	10.0	9.0	---	---			24.5	18.5	24.0	18.5	---	---
12	11.0	9.5	---	---			24.5	18.5	23.5	18.0	---	---
13	11.5	10.0	---	---			25.0	19.0	19.5	17.0	---	---
14	12.5	11.0	---	---			---	---	20.0	16.5	---	---
15	12.5	11.5	---	---			---	---	17.5	15.0	---	---
16	12.5	10.5	---	---			---	---	18.0	15.0	---	---
17	13.0	11.0	---	---			---	---	16.5	15.5	17.0	15.0
18	14.0	11.5	---	---			---	---	16.5	15.5	18.0	16.5
19	15.0	12.0	---	---			25.0	20.0	---	---	18.0	17.0
20	15.0	13.0	---	---			25.0	18.5	---	---	18.5	17.0
21	14.5	11.5	---	---			24.0	18.5	---	---	18.0	17.0
22	16.0	12.5	---	---			25.0	16.5	---	---	18.0	17.0
23	16.0	11.5	---	---			25.0	20.5	---	---	---	---
24	16.5	12.5	---	---			25.5	19.0	---	---	---	---
25	16.0	10.5	---	---			26.0	20.5	---	---	---	---
26	15.5	10.0	---	---			26.0	21.0	---	---	---	---
27	15.0	10.0	---	---			---	---	---	---	18.0	17.0
28	15.5	10.0	---	---			---	---	---	---	17.5	17.0
29	16.0	11.5	---	---			---	---	---	---	18.5	17.0
30	17.0	11.5	---	---			---	---	---	---	19.5	18.0
31	---	---	---	---			---	---	---	---	---	---
MONTH	17.0	7.5	---	---			---	---	---	---	---	---

11461800 LAKE MENDOCINO NEAR UKIAH, CA

LOCATION.--Lat 39°11'53", long 123°10'50", in Yokaya Grant (corrected), Mendocino County, in intake tower 30 ft (9 m) upstream from Coyote Dam on East Fork Russian River, and 3.6 mi (5.8 km) northeast of Ukiah.

DRAINAGE AREA.--105 mi^2 (272 km^2).

PERIOD OF RECORD.--October 1965 to current year. Records prior to October 1965 in files of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

REMARKS.--Reservoir is formed by earthfill dam; storage began in November 1958. Capacity, 122,900 acre-ft (152 hm^3) between elevations 637.0 ft (194.16 m), invert of outlet tunnel and 764.8 ft (233.11 m), spillway crest, above mean sea level. Storage affected by diversions from Eel River through Potter Valley powerhouse (station 11471000). Water is released down East Fork Russian River for irrigation and recreation use. Records given herein represent total contents.

COOPERATION.--Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 114,800 acre-ft (142 hm^3) Jan. 24, 1970, elevation, 760.86 ft (231.910 m); minimum, 32,700 acre-ft (40.3 hm^3) Sept. 16, 17, 1976, elevation, 710.84 ft (216.664 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 85,000 acre-ft (105 hm^3) Apr. 23-25; maximum elevation, 744.78 ft (227.009 m) Apr. 24; minimum contents, 32,700 acre-ft (40.3 hm^3) Sept. 16, 17, elevation, 710.84 ft (216.664 m).

Capacity table (elevation, in feet, and contents, in acre-feet)

637	135	660	2110	685	10900	720	45000
640	250	665	3190	690	13700	730	60100
645	535	670	4590	695	17100	740	76900
650	900	675	6280	700	21100	750	94600
655	1380	680	8430	710	31620	765	122900

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62400	61400	69100	72100	72700	78800	77700	84900	76600	62300	46400	35900
2	62300	61400	69400	72000	72700	76400	77700	84900	76200	61800	45900	35500
3	62200	61500	69600	72000	72700	75300	77800	84900	75700	61200	45400	35100
4	62200	61800	70000	72000	72800	75100	77800	84900	75300	60700	45000	34700
5	62100	62000	71100	72000	72900	75100	77900	84800	74800	60200	44600	34200
6	62000	62300	71400	72000	72900	75100	77900	84800	74400	59600	44200	33800
7	61900	62600	71800	71900	72900	75100	78300	84800	73900	59100	43700	33500
8	61800	62900	71900	72000	72900	75000	79100	84700	73500	58700	43300	33500
9	61900	63100	72000	72100	72900	75300	79600	84600	73000	58200	42900	33600
10	61900	63500	72300	72200	72900	75500	80600	84600	72600	57700	42400	33700
11	61900	63700	72600	72300	72900	75700	81500	84400	72300	57200	41900	33700
12	61900	64000	72600	72300	73000	75800	82200	84300	71900	56700	41400	33800
13	61800	64300	72600	72300	73100	76100	82800	84100	71500	56200	41000	33500
14	61800	64500	72600	72400	73200	76200	83300	83800	71100	55500	40600	33200
15	61700	65200	72500	72400	73300	76300	83600	83400	70700	55100	40300	32900
16	61700	65600	72500	72400	73600	76400	83900	83100	70200	54400	40000	32700
17	61600	65900	72500	72400	73800	76500	84100	82700	69700	53800	39800	32800
18	61600	66100	72500	72500	73800	76600	84400	82400	69200	53400	39600	32900
19	61600	66400	72400	72500	74300	76700	84600	82100	68700	52900	39400	32900
20	61500	66700	72400	72400	74600	76700	84700	81700	68300	52300	39300	33000
21	61500	67000	72400	72300	74800	76800	84800	81400	67800	51900	39100	33100
22	61300	67200	72400	72400	74800	76900	84900	81000	67300	51400	38900	33100
23	61200	67500	72400	72400	74800	76900	85000	80700	66900	50900	38800	33200
24	61100	67700	72400	72500	74600	77000	85000	80300	66300	50500	38600	33300
25	61300	68000	72400	72500	75900	77100	85000	79900	65800	50100	38300	33200
26	61400	68300	72400	72500	78000	77200	84900	79600	65200	49700	38000	33300
27	61400	68500	72300	72500	78600	77300	84900	79100	64700	49100	37700	33400
28	61400	68700	72300	72600	78000	77300	84900	78600	64200	48500	37400	33500
29	61400	68900	72300	72600	80100	77400	84900	78100	63500	48000	37100	33800
30	61500	69100	72200	72700	---	77600	84900	77600	62900	47400	36700	34000
31	61500	---	72100	72700	---	77600	---	77100	---	46900	36300	---
MAX	62400	69100	72600	72700	80100	78800	85000	84900	76600	62300	46400	35900
MIN	61100	61400	69100	71900	72700	75000	77700	77100	62900	46900	36300	32700
(†)	730.86	735.60	737.40	737.74	741.95	740.46	744.72	740.11	731.75	721.32	713.67	711.87
(‡)	-1000	+7600	+3000	+600	+7400	-2500	+7300	-7800	-14200	-16000	-10600	-2300

CAL YR 1975 ‡ +9200
WTR YR 1976 ‡ -28500

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CA

LOCATION.--Lat 39°11'51", long 123°11'11", in Yokaya Grant, (corrected), Mendocino County, on right bank of outlet channel, 500 ft (152 m) downstream from Coyote Dam, 1,300 ft (396 m) upstream from mouth, and 3.2 mi (5.1 km) northeast of Ukiah.

DRAINAGE AREA.--105 mi^2 (272 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1911 to September 1913, October 1951 to June 1956, October 1957 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 614.41 ft (187.272 m) above mean sea level. Prior to October 1951, nonrecording gage at site 0.5 mi (0.8 km) upstream at different datum. October 1951 to June 1956, water-stage recorder at site 1.0 mi (1.6 km) upstream at different datum.

REMARKS.--Records good. Flow affected by diversion from Eel River through Potter Valley powerhouse (station 11471000) and since November 1958 by storage in Lake Mendocino (station 11461800) 500 ft (152 m) upstream. Diversions above station for irrigation of about 8,000 acres (32.4 km^2).

AVERAGE DISCHARGE (unadjusted).--7 years (water years 1912-13, 1952-55, 1958), 356 ft^3/s (10.08 m^3/s), 257,900 acre-ft/yr (318 hm^3/yr); 17 years (water years 1960-76), 354 ft^3/s (10.03 m^3/s), 256,500 acre-ft/yr (316 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD (Prior to regulation by Lake Mendocino).--Maximum discharge, 13,300 ft^3/s (377 m^3/s) Dec. 21, 1955, gage height, 16.86 ft (5.139 m) site and datum then in use, from rating curve extended above 1,700 ft^3/s (48.1 m^3/s) on basis of maximum flow at station upstream which was defined to 8,600 ft^3/s (244 m^3/s); no flow Aug. 13-15, 1913.
1957 to current year: Maximum discharge, 7,350 ft^3/s (208 m^3/s) Jan. 24, 1970, gage height, 10.84 ft (3.304 m); minimum daily, 0.02 ft^3/s (0.001 m^3/s) Apr. 17, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,350 ft^3/s (66.6 m^3/s) Mar. 1, gage height, 4.69 ft (1.430 m); minimum daily, 35 ft^3/s (0.99 m^3/s) Feb. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	326	318	181	326	67	1510	38	71	258	305	314	229
2	322	318	181	308	67	2310	38	71	237	306	303	240
3	322	262	181	297	67	1300	38	71	237	306	299	244
4	323	178	181	298	47	556	39	71	240	307	298	244
5	322	178	181	298	35	373	39	71	238	305	295	244
6	322	178	181	242	54	267	38	71	238	289	295	241
7	322	178	181	171	67	267	38	71	239	278	294	231
8	322	178	182	150	67	231	38	71	240	278	297	226
9	322	178	184	152	67	120	38	71	240	278	288	223
10	322	178	184	152	53	67	38	71	241	278	273	224
11	322	178	184	152	36	67	38	97	240	278	274	223
12	318	177	272	152	36	67	39	112	240	295	278	225
13	318	177	326	152	36	67	39	140	241	290	277	223
14	318	178	326	152	36	67	39	174	244	299	274	223
15	318	178	326	152	36	67	39	190	244	314	273	223
16	318	178	326	152	36	67	39	190	263	314	254	223
17	318	178	326	152	106	67	39	208	271	314	243	223
18	318	178	326	152	122	68	39	219	270	314	232	223
19	318	158	326	152	106	68	57	220	270	314	204	223
20	318	167	326	152	80	69	69	220	270	310	188	223
21	318	178	326	98	65	69	70	220	267	295	188	223
22	318	179	326	67	65	52	71	218	266	286	187	223
23	318	178	326	67	116	38	97	213	282	286	171	223
24	318	179	326	67	146	38	112	213	291	284	191	232
25	318	180	326	67	99	38	112	213	307	285	227	237
26	318	181	326	67	226	37	112	224	317	303	237	237
27	318	181	326	67	852	36	112	265	314	314	233	222
28	318	181	326	67	1320	37	85	298	314	314	230	199
29	318	181	326	67	159	38	71	298	310	314	227	175
30	318	181	326	67	---	38	71	298	308	314	227	167
31	318	---	326	67	---	38	---	298	---	314	224	---
TOTAL	9907	5690	8467	4682	4269	8134	1732	5238	7937	9281	7795	6716
MEAN	320	190	273	151	147	262	57.7	169	265	299	251	224
MAX	326	318	326	326	1320	2310	112	298	317	314	314	244
MIN	318	158	181	67	35	36	38	71	237	278	171	167
AC-FT	19650	11290	16790	9290	8470	16130	3440	10390	15740	18410	15460	13320

CAL YR 1975 TOTAL 150884 MEAN 413 MAX 3930 MIN 26 AC-FT 299300
WTR YR 1976 TOTAL 79848 MEAN 218 MAX 2310 MIN 35 AC-FT 158400

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953-55, 1964-68, 1973 to current year.
CHEMICAL ANALYSES: Water years 1953-55, 1973 to current year.
WATER TEMPERATURES: Water years 1953-55, 1965-68, 1973 to current year.
SEDIMENT RECORDS: Water years 1953-55, 1964-68.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: December 1952 to March 1955, October 1964 to September 1968, October 1972 to current year.
SEDIMENT RECORDS: December 1952 to March 1955, January 1964 to September 1968.

INSTRUMENTATION.--Temperature recorder since October 1972.

COOPERATION.--The letter "A" following a date indicates chemical-quality data furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES (water years 1973-74, 1976): Maximum, 22.5°C on several days in 1973; minimum, 7.0°C Jan. 14, 1973.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 22.0°C Aug. 20; minimum, 7.5°C on several days during January and February.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
OCT								
02...	1425	319	144	7.2	20.0	--	--	--
17...A	1030	318	158	7.8	18.0	3	--	--
31...A	1005	318	160	8.2	16.0	3	--	--
NOV								
12...	1400	175	153	7.8	14.0	--	--	--
14...A	1007	178	165	8.0	13.0	4	--	--
28...A	1015	181	166	8.0	11.0	3	--	--
DEC								
05...	1535	179	160	7.6	10.5	--	--	--
12...A	1020	326	171	7.9	11.0	7	--	--
24...A	1000	326	170	8.0	9.0	5	--	--
JAN								
07...	1505	147	176	7.7	8.0	--	--	--
09...A	1040	152	181	8.0	9.0	7	--	--
23...A	1000	67	203	8.0	9.0	8	--	--
FEB								
06...A	1005	67	180	8.0	8.0	5	--	--
13...	1525	36	191	7.5	8.0	--	--	--
20...A	1055	67	138	7.8	9.0	5	--	--
MAR								
05...A	1040	267	203	7.8	9.0	9	--	--
19...A	1030	69	184	7.8	9.0	20	--	--
24...	1530	38	175	7.7	9.5	--	--	--
APR								
02...A	1010	38	175	8.0	9.0	15	--	--
16...A	0945	39	174	7.9	10.0	15	--	--
22...	1550	71	160	7.5	9.5	--	--	--
MAY								
03...A	1115	71	193	7.8	10.0	15	--	--
14...A	0945	155	195	7.8	10.0	30	--	--
21...	1420	215	165	7.5	10.5	--	--	--
28...A	1000	298	177	7.6	10.0	30	--	--
JUN								
11...A	1010	241	175	7.5	11.0	15	--	--
17...	1200	270	171	7.5	11.0	--	10.5	97
25...A	1050	318	180	7.5	--	25	--	--
JUL								
09...A	1020	278	178	7.4	--	15	--	--
14...	1430	314	177	7.2	12.5	--	--	--
AUG								
06...A	1030	294	186	7.4	18.0	7	--	--
11...	1105	278	183	7.3	20.5	--	--	--
20...A	1035	190	195	7.6	22.0	8	--	--
SEP								
03...A	1100	244	196	7.4	21.0	2	--	--
16...	0730	223	173	7.1	21.0	--	8.2	92
17...A	1035	223	186	7.5	21.0	4	--	--

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)
OCT 02...	1425	--	--	.01	.01	.05	.01	.12	.08
NOV 12...	1400	--	--	.04	.03	.03	.03	.10	.12
DEC 05...	1535	--	--	.01	.01	.03	.04	.04	.00
JAN 07...	1505	--	--	.04	.04	.00	.04	1.1	.08
FEB 13...	1525	--	--	.08	.04	.04	--	.16	--
MAR 24...	1530	--	--	.11	.12	.00	.00	.11	.14
APR 22...	1550	.10	.00	.11	.10	.00	.02	.12	.04
MAY 21...	1420	.12	.00	.13	.12	.01	.00	.18	.15
JUN 17...	1200	.11	.00	.11	.11	.00	.01	.16	.15
JUL 14...	1430	.07	.00	.07	.07	.01	.01	.34	.11
AUG 11...	1105	.01	.01	.03	.02	.00	.00	.00	.01
SEP 16...	0730	.00	.01	.02	.01	.02	.01	.11	.33

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	SUS-PENDED KJEL. NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (P04) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	SUS-PENDED ORGANIC CARBON (C) (MG/L)
OCT 02...	.17	.08	.09	.18	.02	.00	.00	2.5	.2
NOV 12...	.13	.00	.15	.17	.02	.00	.00	4.0	.2
DEC 05...	.07	.04	.03	.08	.01	.01	.03	--	--
JAN 07...	1.1	.98	.12	1.1	.03	.01	.03	1.8	.4
FEB 13...	.20	.01	.19	.28	.00	.00	.00	1.6	--
MAR 24...	.11	.00	.14	.22	.03	.01	.03	2.5	>5.0
APR 22...	.12	.06	.06	.23	.03	.01	.03	2.5	.6
MAY 21...	.19	.04	.15	.32	.03	.02	.06	1.2	--
JUN 17...	.16	.00	.16	.27	.02	.01	.03	16	1.1
JUL 14...	.35	.23	.12	.42	.03	.01	.03	1.7	1.5
AUG 11...	.00	.00	.01	.03	.03	.02	.06	4.5	6.5
SEP 16...	.13	.00	.34	.15	.01	.01	.03	2.9	--

11462000 EAST FORK RUSSIAN RIVER NEAR UKAH, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

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

11462500 RUSSIAN RIVER NEAR HOPLAND, CA

LOCATION.--Lat 39°01'36", long 123°07'46", in Rancho de Sanel Grant, Mendocino County, on right bank at abandoned highway bridge, 0.2 mi (0.3 km) downstream from McNab Creek, 4 mi (6 km) north of Hopland.

DRAINAGE AREA.--362 mi^2 (938 km^2).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1041: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 497.61 ft (151.672 m) above mean sea level. Prior to Sept. 9, 1943, nonrecording gage at same site and datum.

REMARKS.--Records good. Diversions for irrigation of about 11,800 acres (47.8 km^2) above station. Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations) and since November 1958 by storage in Lake Mendocino (station 11461800) 15 mi (24 km) upstream .

AVERAGE DISCHARGE.--37 years, 727 ft^3/s (20.59 m^3/s), 526,700 acre-ft/yr (649 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,000 ft^3/s (1,270 m^3/s) Dec. 22, 1955, gage height, 27.00 ft (8.230 m); minimum daily, 26 ft^3/s (0.74 m^3/s) Dec. 18, 1943, June 26, 1949.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in December 1937 reached a stage of 30.0 ft (9.14 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,070 ft^3/s (115 m^3/s) Feb. 29, gage height, 9.75 ft (2.972 m); minimum daily, 58 ft^3/s (1.64 m^3/s) Feb. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	303	329	204	348	97	2120	82	122	251	262	255	215
2	311	324	206	341	91	2780	75	119	225	263	254	217
3	313	311	207	324	91	2090	74	118	224	263	249	226
4	314	208	209	324	91	1050	74	111	222	265	249	229
5	310	198	1100	324	70	777	75	106	221	267	248	229
6	315	193	592	299	65	559	77	102	218	264	246	228
7	315	196	370	233	81	502	102	96	215	248	246	222
8	319	197	305	196	85	445	544	93	215	246	246	211
9	335	197	273	228	85	339	356	91	215	245	245	205
10	333	208	257	238	85	234	559	91	215	245	237	205
11	328	227	247	217	66	209	581	91	215	249	225	205
12	324	213	295	207	59	190	753	105	214	253	228	205
13	319	201	384	204	58	173	529	110	212	267	229	205
14	319	201	383	201	59	166	363	139	212	251	231	205
15	323	335	375	198	115	160	301	166	209	264	232	205
16	324	444	373	196	238	151	256	170	208	267	229	205
17	330	280	370	194	317	148	224	180	224	269	223	205
18	338	243	368	191	344	145	203	196	222	270	227	205
19	338	221	364	190	487	163	192	199	224	270	220	205
20	342	203	358	188	411	147	192	204	225	269	194	207
21	345	213	357	175	267	141	184	201	227	261	192	208
22	310	207	398	125	213	130	177	201	229	245	192	208
23	296	210	389	117	200	111	175	204	232	234	189	204
24	296	210	376	106	222	107	188	204	243	234	179	209
25	305	210	368	104	665	108	184	201	246	235	202	220
26	357	209	368	104	2280	104	168	199	255	238	218	215
27	326	205	359	104	2450	100	162	219	262	250	219	216
28	317	204	358	104	2170	96	151	258	263	252	219	205
29	316	204	358	100	1820	95	128	262	258	252	219	182
30	330	204	353	100	---	95	124	268	259	252	218	172
31	340	---	348	99	---	90	---	268	---	252	215	---
TOTAL	9991	7005	11272	6079	13282	13725	7253	5094	6860	7902	6975	6278
MEAN	322	234	364	196	458	443	242	164	229	255	225	209
MAX	357	444	1100	348	2450	2780	753	268	263	270	255	229
MIN	296	193	204	99	58	90	74	91	208	234	179	172
AC-FT	19820	13890	22360	12060	26340	27220	14390	10100	13610	15670	13830	12450

CAL YR 1975 TOTAL 305742 MEAN 838 MAX 9950 MIN 193 AC-FT 606400
WTR YR 1976 TOTAL 101716 MEAN 278 MAX 2780 MIN 58 AC-FT 201800

11462500 RUSSIAN RIVER NEAR HOPLAND, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.
CHEMICAL ANALYSES: Water years 1951-66.
WATER TEMPERATURES: Water years 1965 to current year.

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

INSTRUMENTATION.--Temperature recorder since September 1965.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1966, 1969, 1972-76), 24.0°C on several days in 1969 and 1973; minimum (water years 1966-68, 1970, 1972-76), 5.0°C Feb. 2, Dec. 16, 1972, Jan. 31 to Feb. 2, 1975.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 23.5°C Aug. 20, 24; minimum, 7.5°C Jan. 1, 2.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

11462500 RUSSIAN RIVER NEAR HOPLAND, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	11.0	19.0	13.5	15.5	11.5	17.0	13.0	20.5	17.0	23.0	20.0
2	15.5	11.5	19.0	13.5	16.0	13.0	17.0	13.0	20.5	17.0	23.0	20.0
3	14.5	12.5	20.0	13.5	16.0	13.0	17.0	13.5	19.5	17.5	22.5	19.5
4	16.5	12.0	20.0	14.0	16.5	13.0	18.0	14.0	21.0	17.0	22.5	20.0
5	14.0	13.0	20.0	14.0	16.5	13.5	18.0	14.0	21.0	17.5	22.5	20.0
6	15.0	13.0	19.5	14.0	16.5	13.5	18.0	14.0	21.0	18.0	23.0	20.0
7	13.5	12.0	20.5	14.5	15.0	13.5	18.5	15.0	21.0	18.5	23.0	20.0
8	12.0	11.0	20.5	15.5	16.5	13.0	19.0	15.0	22.0	18.0	23.0	20.0
9	12.0	11.5	21.0	16.0	15.5	13.5	19.0	15.0	22.0	18.5	23.0	20.0
10	12.0	11.5	20.5	16.0	16.5	13.0	18.5	15.0	22.0	19.0	21.0	20.0
11	11.5	10.0	21.0	15.5	15.5	13.0	18.5	15.0	22.5	20.0	22.0	20.0
12	11.5	9.5	22.5	15.5	17.0	13.5	18.5	15.0	22.0	19.5	22.5	19.5
13	13.0	10.0	22.0	15.5	17.0	13.5	18.5	15.0	20.0	19.0	22.5	19.0
14	14.0	12.0	20.5	15.5	17.0	13.5	19.0	15.0	20.5	19.0	22.0	19.5
15	14.5	12.5	19.0	14.5	17.5	14.0	18.5	14.5	20.0	19.0	21.0	19.0
16	14.5	11.5	18.0	14.0	18.0	15.0	18.0	15.0	20.0	18.5	20.0	19.0
17	15.0	12.0	17.5	14.0	17.5	14.0	18.0	15.0	20.0	19.0	22.0	18.5
18	17.5	13.0	17.0	13.5	17.5	14.0	18.5	15.0	19.5	19.0	22.0	19.0
19	18.5	13.0	17.0	13.5	17.5	14.0	18.5	15.0	23.0	19.5	21.5	19.0
20	18.5	14.0	17.0	14.0	17.0	13.5	18.5	15.0	23.5	21.0	21.5	19.0
21	17.0	14.0	17.5	14.5	17.0	13.5	18.5	15.0	22.5	21.0	21.0	18.5
22	18.5	14.0	17.5	14.5	17.0	13.5	19.5	15.5	22.0	20.0	21.0	18.5
23	18.5	13.5	17.0	14.0	17.5	14.0	19.5	16.5	23.0	19.5	20.5	18.5
24	17.5	13.5	17.0	14.0	17.5	13.5	19.5	16.0	23.5	20.0	21.0	18.5
25	17.5	13.0	17.5	14.5	17.5	14.0	20.0	16.5	23.0	20.0	20.0	18.0
26	17.0	12.5	18.0	14.5	17.0	13.0	20.5	17.0	22.5	19.0	19.5	18.5
27	17.5	12.5	17.5	14.5	17.0	13.0	20.5	16.5	23.0	19.5	19.5	18.5
28	17.5	12.5	16.0	12.5	17.0	13.0	19.0	16.5	23.0	20.0	19.5	18.5
29	18.5	12.5	14.0	11.5	17.0	13.0	20.5	16.0	23.0	20.0	21.0	18.5
30	19.0	13.5	15.5	12.5	17.0	13.0	20.0	17.0	23.0	20.0	21.0	19.0
31	---	---	16.0	12.5	---	---	19.0	17.0	23.0	20.0	---	---
MONTH	19.0	9.5	22.5	11.5	18.0	11.5	20.5	13.0	23.5	17.0	23.0	18.0

11463000 RUSSIAN RIVER NEAR CLOVERDALE, CA

LOCATION.--Lat 38°52'46", long 123°03'09", in NW¼NW¼ sec.23, T.12 N., R.11 W., Mendocino County, on left bank 0.3 mi (0.5 km) downstream from Cummisky Creek, and 5.5 mi (8.8 km) northwest of Cloverdale.

DRAINAGE AREA.--503 mi^2 (1,303 km^2).

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

GAGE.--Water-stage recorder. Altitude of gage is 350 ft (107 m), from topographic map. Prior to July 30, 1970, at site 0.2 mi (0.3 km) upstream at different datum.

REMARKS.--Records good. Diversions for irrigation of about 15,300 acres (61.9 km^2) above station. Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations) and since November 1958 by storage in Lake Mendocino (station 11461800) 28 mi (45 km) upstream .

AVERAGE DISCHARGE.--25 years, 308 ft^3/s (8.723 m^3/s), 723,100 acre-ft/yr (892 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,200 ft^3/s (1,560 m^3/s) Dec. 22, 1964, gage height, 31.60 ft (9.632 m) site and datum then in use; minimum daily, 68 ft^3/s (1.93 m^3/s) Feb. 12, 13, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,340 ft^3/s (123 m^3/s) Feb. 29, gage height, 8.58 ft (2.615 m); minimum daily, 68 ft^3/s (1.93 m^3/s) Feb. 12, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	285	356	202	366	97	2550	94	144	282	265	249	199
2	287	347	202	363	96	3170	82	142	265	263	254	208
3	291	344	202	332	97	2780	78	142	246	260	249	226
4	294	253	205	329	96	1570	78	136	230	263	252	231
5	295	210	1000	329	80	1200	78	129	228	268	246	227
6	298	201	869	288	76	832	88	121	225	263	244	224
7	301	198	461	250	85	709	274	116	223	234	241	214
8	302	198	344	200	85	628	1190	108	220	224	241	197
9	334	197	295	209	90	513	738	100	220	224	241	190
10	370	199	266	243	90	370	927	97	219	226	229	186
11	334	228	253	218	74	319	1150	92	221	226	208	186
12	328	216	261	204	68	279	1430	100	219	234	205	188
13	323	207	385	200	68	249	1000	104	217	249	208	195
14	323	202	388	198	69	229	650	124	219	229	214	190
15	320	261	388	193	88	219	495	153	210	249	224	186
16	320	581	385	189	140	208	401	167	205	249	224	186
17	320	338	382	187	367	197	340	171	224	249	210	184
18	322	272	375	187	361	190	297	188	214	257	224	186
19	320	245	369	185	464	203	263	188	221	263	221	188
20	320	214	369	182	550	192	249	195	226	260	188	197
21	320	218	369	180	340	180	234	199	234	254	178	197
22	320	218	450	135	263	171	226	195	231	231	178	195
23	320	216	433	117	221	148	214	201	234	217	176	199
24	320	211	408	110	246	135	221	208	252	210	157	203
25	323	209	395	107	297	133	219	199	244	224	182	217
26	400	207	392	104	2420	127	201	190	252	226	203	221
27	373	207	385	101	2830	119	184	203	260	246	212	224
28	343	205	382	101	2660	117	177	254	265	246	208	210
29	335	202	382	99	2340	112	157	274	252	246	208	190
30	389	202	372	97	---	108	148	285	257	244	208	167
31	371	---	369	97	---	106	---	291	---	241	203	---
TOTAL	10101	7362	11938	6100	14758	18063	11883	5216	7015	7540	6685	6011
MEAN	326	245	385	197	509	583	396	168	234	243	216	200
MAX	400	581	1000	366	2830	3170	1430	291	282	268	254	231
MIN	285	197	202	97	68	106	78	92	205	210	157	167
AC-FT	20040	14600	23680	12100	29270	35830	23570	10350	13910	14960	13260	11920

CAL YR 1975 TOTAL 394013 MEAN 1079 MAX 12200 MIN 184 AC-FT 781500
WTR YR 1976 TOTAL 112672 MEAN 308 MAX 3170 MIN 68 AC-FT 223500

11463900 MAACAMA CREEK NEAR KELLOGG, CA

LOCATION.--Lat 38°38'25", long 122°45'45", in SW¼ sec.9, T.9 N., R.8 W., Sonoma County, on right bank 0.5 mi (0.8 km) downstream from Redwood Creek, and 4.4 mi (7.1 km) west of Kellogg.

DRAINAGE AREA.--43.4 mi^2 (112.4 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements and annual maximum, water years 1958-60, December 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 188.91 ft (57.580 m) above mean sea level. Prior to Dec. 20, 1960, crest-stage gage only at site 700 ft (213 m) upstream at different datum.

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

AVERAGE DISCHARGE.--15 years (water years 1962-76), 86.7 ft^3/s (2.455 m^3/s), 62,810 acre-ft/yr (77.4 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,920 ft^3/s (253 m^3/s) Dec. 22, 1964, gage height, 17.56 ft (5.352 m); no flow for many days in 1964, 1968, and 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,030 ft^3/s (29.2 m^3/s) Feb. 29, gage height, 7.74 ft (2.359 m), no peak above base of 2,000 ft^3/s (57 m^3/s); no flow Sept. 10, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.75	9.4	6.8	7.9	3.9	131	9.3	11	3.4	.12	.11	.08
2	.80	7.2	6.8	7.6	3.9	113	8.8	10	3.1	.22	.08	.06
3	.80	6.1	6.6	7.5	3.9	102	8.3	9.9	2.7	.53	.06	.05
4	.81	5.5	6.7	7.5	3.9	82	8.3	10	2.5	.56	.12	.03
5	.89	5.2	146	7.5	3.7	61	8.3	9.6	2.7	.53	.12	.02
6	.91	5.1	51	7.4	3.5	48	9.9	9.3	2.4	.49	.05	.02
7	.94	5.8	27	6.9	3.7	41	53	8.8	2.0	.42	.09	.02
8	.98	5.8	20	8.1	3.9	36	144	8.8	1.9	.39	.06	.02
9	3.9	5.1	17	15	4.0	31	57	8.8	2.2	.42	.08	.02
10	74	8.3	15	12	4.0	27	65	8.6	2.0	.26	.09	0
11	14	7.6	13	10	3.9	25	72	8.6	2.2	.14	.06	.01
12	7.6	12	18	8.8	3.8	21	98	7.6	2.1	.08	.03	0
13	4.5	8.5	14	8.3	4.3	20	60	7.0	1.7	.06	.02	.12
14	3.5	5.8	12	7.9	5.7	18	44	6.8	1.6	.12	.03	.05
15	2.9	64	11	7.3	8.0	17	35	6.4	1.0	.20	.22	.08
16	2.5	76	11	7.1	19	16	30	6.0	.90	.16	.53	.14
17	2.3	25	10	6.6	21	15	27	5.3	.64	.14	.22	.18
18	2.2	16	10	5.4	13	16	25	4.6	1.8	.12	.20	.12
19	2.0	12	9.5	4.8	34	14	23	4.6	1.2	.11	1.4	.09
20	1.9	12	9.0	4.7	22	13	21	4.6	1.1	.08	.85	.06
21	1.8	11	10	4.6	15	13	19	4.6	1.1	.05	.46	.05
22	1.7	9.5	24	4.5	12	12	18	4.3	1.4	.06	.42	.04
23	1.8	8.8	15	4.5	10	12	17	4.0	1.2	.09	.60	.04
24	1.8	8.3	12	4.4	9.1	12	16	3.9	.85	.08	.42	.05
25	2.4	7.5	11	4.2	10	12	14	3.7	.33	.08	.31	.06
26	47	7.4	11	4.1	41	11	13	3.6	.28	.05	.20	.06
27	12	7.7	10	4.0	70	10	13	3.3	.18	.04	.12	.16
28	6.6	7.4	9.5	4.0	59	9.9	12	2.6	.18	.04	.11	.56
29	5.9	6.9	9.1	4.1	326	9.3	12	3.3	.14	.05	.05	.69
30	53	6.8	8.6	4.0	---	9.1	11	3.6	.12	.08	.04	.42
31	16	---	8.3	3.9	---	9.6	---	3.5	---	.09	.04	---
TOTAL	278.18	383.7	548.9	204.6	725.2	966.9	951.9	196.7	44.92	5.86	7.19	3.30
MEAN	8.97	12.8	17.7	6.60	25.0	31.2	31.7	6.35	1.50	.19	.23	.11
MAX	74	76	146	15	326	131	144	11	3.4	.56	1.4	.69
MIN	.75	5.1	6.6	3.9	3.5	9.1	8.3	2.6	.12	.04	.02	0
AC-FT	552	761	1090	406	1440	1920	1890	390	89	12	14	6.5

CAL YR 1975 TOTAL 25741.69 MEAN 70.5 MAX 1740 MIN .66 AC-FT 51060
WTR YR 1976 TOTAL 4317.35 MEAN 11.8 MAX 326 MIN 0 AC-FT 8560

11464000 RUSSIAN RIVER NEAR HEALDSBURG, CA

LOCATION.--Lat 38°36'48", long 122°50'07", in Sotoyome Grant, Sonoma County, on left bank 2 mi (3 km) east of Healdsburg, and 3.5 mi (5.6 km) upstream from Dry Creek.

DRAINAGE AREA.--793 mi^2 (2,054 km^2).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 981: 1942. WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 77.01 ft (23.473 m) above mean sea level.

REMARKS.--Records good. Several diversions for irrigation of about 17,800 acres (72.0 km^2) above station. Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations) and since November 1958 by storage in Lake Mendocino (station 11461800) 63 mi (101 km) upstream .

AVERAGE DISCHARGE.--37 years, 1,442 ft^3/s (40.84 m^3/s), 1,045,000 acre-ft/yr (1.29 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 71,300 ft^3/s (2,020 m^3/s) Dec. 23, 1964, gage height, 27.00 ft (8.230 m); maximum gage height, 30.0 ft (9.14 m) Feb. 28, 1940; minimum daily discharge, 38 ft^3/s (1.08 m^3/s) July 2, 1950.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1937 reached a stage of 30.8 ft (9.39 m) from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,560 ft^3/s (129 m^3/s) Mar. 1, gage height, 5.57 ft (1.698 m); minimum daily, 106 ft^3/s (3.00 m^3/s) Feb. 13, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	270	415	236	404	134	3380	153	216	263	224	203	185
2	274	395	236	398	132	3070	138	210	261	230	207	183
3	278	377	237	389	130	3320	129	202	219	233	209	186
4	278	365	237	376	128	2110	124	197	210	239	211	196
5	278	302	408	371	126	1530	124	189	206	242	210	203
6	282	269	1190	371	124	1150	129	175	202	241	207	203
7	290	256	712	353	116	930	163	163	203	232	207	201
8	290	250	510	310	114	812	1500	158	201	210	207	193
9	323	244	424	290	118	709	1430	153	199	196	208	180
10	505	249	377	298	116	582	968	146	201	194	207	171
11	461	251	347	298	114	473	1480	141	205	195	201	174
12	385	267	338	278	112	410	1860	129	210	195	192	176
13	357	253	363	266	106	367	1470	122	204	186	190	176
14	344	242	415	258	106	333	1050	120	198	187	196	175
15	335	260	415	251	112	310	791	127	193	186	215	175
16	331	560	414	244	126	291	638	148	183	199	215	175
17	327	547	410	240	199	277	535	163	180	208	217	169
18	327	395	408	236	300	268	462	163	183	218	220	166
19	327	337	404	229	353	264	410	175	184	223	232	166
20	323	309	400	225	494	261	371	178	189	223	221	199
21	323	281	406	222	453	249	350	181	197	216	198	173
22	323	276	455	215	345	239	329	183	198	211	190	172
23	323	268	490	191	289	227	313	183	186	193	183	171
24	323	261	460	174	258	210	302	186	180	184	177	174
25	327	253	443	163	268	199	298	160	188	178	165	179
26	400	249	433	156	830	194	284	186	194	184	168	190
27	445	247	428	148	2500	189	271	150	206	182	183	199
28	395	245	420	146	2730	178	258	169	213	191	192	207
29	371	239	417	141	2480	170	246	200	222	198	193	198
30	445	236	414	139	---	163	227	233	220	199	190	183
31	461	---	409	137	---	160	---	253	---	201	188	---
TOTAL	10721	9098	13256	7917	13413	23025	16803	5359	6098	6398	6202	5498
MEAN	346	303	428	255	463	743	560	173	203	206	200	183
MAX	505	560	1190	404	2730	3380	1860	253	263	242	232	207
MIN	270	236	236	137	106	160	124	120	180	178	165	166
AC-FT	21270	18050	26290	15700	26600	45670	33330	10630	12100	12690	12300	10910

CAL YR 1975 TOTAL 558053 MEAN 1529 MAX 29200 MIN 167 AC-FT 1107000
WTR YR 1976 TOTAL 123788 MEAN 338 MAX 3380 MIN 106 AC-FT 245500

11464000 RUSSIAN RIVER NEAR HEALDSBURG, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.
CHEMICAL ANALYSES: Water years 1951-66.
WATER TEMPERATURES: Water years 1966 to current year.

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

INSTRUMENTATION.--Temperature recorder since October 1965.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1966-68, 1970, 1972-76), 28.0°C July 13, 14, 1972; minimum (water years 1966-69, 1972-76), 5.0°C Dec. 10, 11, 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 26.5°C May 13; minimum, 6.0°C Jan. 2.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.5	16.0	15.5	12.5	12.5	10.0	7.5	6.5	12.5	8.5	11.0	9.5
2	20.5	16.5	16.5	13.0	13.0	10.0	7.0	6.0	13.0	8.5	9.5	7.5
3	21.0	15.0	17.0	13.5	12.5	10.0	7.5	6.5	11.0	7.5	9.5	7.0
4	21.5	15.5	17.5	14.0	11.5	9.5	8.5	6.5	---	---	10.5	8.0
5	21.5	15.5	16.5	14.0	12.5	11.5	9.5	8.0	---	---	10.5	8.0
6	19.0	15.5	15.0	11.5	11.5	10.5	9.0	7.5	---	---	11.5	8.5
7	18.0	13.0	16.5	13.5	11.0	10.0	9.0	7.0	---	---	11.5	9.5
8	17.5	13.5	14.5	11.0	11.5	10.0	10.0	7.5	---	---	12.5	11.0
9	15.0	14.5	13.0	9.5	11.5	10.0	10.5	8.5	---	---	13.0	10.5
10	17.0	14.5	13.5	10.0	11.0	10.0	10.0	7.5	---	---	13.0	11.5
11	17.5	15.5	12.5	9.0	10.5	10.0	9.5	7.5	---	---	14.5	11.0
12	18.0	15.5	13.0	9.0	10.5	9.0	10.5	8.0	---	---	15.0	11.0
13	18.5	15.0	12.5	9.0	10.0	8.0	10.5	7.5	11.5	9.0	14.5	11.5
14	19.5	15.0	13.0	10.0	8.5	7.0	10.0	8.0	11.5	10.0	15.5	11.5
15	19.5	15.0	14.0	12.5	8.5	7.0	11.0	7.5	12.5	10.5	15.5	12.0
16	20.0	15.5	13.5	11.5	9.0	7.0	11.5	7.5	12.0	11.5	16.5	13.0
17	19.5	15.5	11.5	9.5	9.5	7.5	11.5	8.0	13.5	11.5	17.0	13.5
18	20.0	16.5	10.0	8.0	9.5	7.5	11.5	7.5	14.0	11.5	15.5	13.5
19	19.5	16.0	10.5	8.0	9.0	7.5	11.0	7.5	12.5	11.0	14.5	11.5
20	20.0	16.0	12.5	9.5	9.0	7.0	10.5	7.5	11.5	9.5	15.5	11.0
21	19.5	16.5	11.5	8.5	9.5	8.0	10.5	7.5	11.0	9.0	17.0	12.0
22	17.0	13.5	11.0	8.0	10.5	9.5	10.5	7.5	11.5	9.5	16.5	13.5
23	15.5	12.0	11.5	8.0	10.0	9.0	11.0	7.5	11.5	9.0	15.5	12.5
24	15.5	11.0	12.0	8.5	10.0	8.5	10.5	7.0	12.5	9.0	14.0	12.0
25	14.5	12.5	12.5	9.5	11.0	9.5	10.0	7.0	13.0	11.5	15.5	10.0
26	16.5	14.0	12.0	9.5	11.5	10.5	10.0	6.5	12.5	11.5	15.5	11.5
27	15.5	13.0	11.0	8.5	11.5	10.5	10.0	6.5	12.5	11.0	13.5	10.0
28	15.5	12.5	9.0	7.5	11.5	9.5	10.0	6.5	13.0	12.0	16.5	11.5
29	15.5	12.0	9.0	6.5	11.5	10.0	11.0	7.0	12.0	11.0	17.5	12.0
30	15.5	14.0	10.5	7.5	10.5	8.0	12.0	7.5	---	---	18.5	13.0
31	15.5	13.0	---	---	8.0	7.0	12.0	7.5	---	---	17.5	13.0
MONTH	21.5	11.0	17.5	6.5	13.0	7.0	12.0	6.0	---	---	18.5	7.0

11464000 RUSSIAN RIVER NEAR HEALDSURG, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

11464400 DRY CREEK NEAR YORKVILLE, CA

LOCATION.--Lat 38°47'21", long 123°19'16", in SE¼NE¼ sec.23, T.11 N., R.12 W., Sonoma County, on right bank at downstream side of bridge on Hot Springs Road, 0.1 mi (0.2 km) downstream from Rail Creek, 7.5 mi (12.1 km) west of Cloverdale, and 8.2 mi (13.2 km) southeast of Yorkville.

DRAINAGE AREA.--56.0 mi^2 (145.0 km^2).

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

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 500 ft (152 m), from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,400 ft^3/s (436 m^3/s) Jan. 16, 1974, gage height, 13.50 ft (4.115 m); minimum daily, 0.61 ft^3/s (0.017 m^3/s) Aug. 9-13, Sept. 23-30, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 755 ft^3/s (21.4 m^3/s) Feb. 29, gage height, 6.22 ft (1.896 m), no peak above base of 3,000 ft^3/s (85 m^3/s); minimum daily, 0.61 ft^3/s (0.017 m^3/s) Aug. 9-13, Sept. 23-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	14	7.9	13	7.4	162	11	18	3.2	1.3	.72	.99
2	1.1	9.2	7.9	12	7.4	148	11	17	3.1	1.3	.72	.99
3	.92	8.3	7.9	12	7.0	155	11	16	3.1	1.3	.72	.85
4	.92	7.4	14	12	6.9	132	10	15	2.8	1.3	.72	.85
5	.92	6.9	188	12	6.9	95	10	14	2.8	1.3	.72	.72
6	.92	6.4	86	11	6.9	74	35	14	2.8	1.3	.72	.72
7	.92	6.7	50	11	6.6	62	90	13	2.8	1.3	.72	.72
8	.92	6.8	36	11	6.4	55	260	12	2.8	1.3	.72	.72
9	28	6.5	28	16	6.4	46	130	12	2.8	1.2	.61	.72
10	41	10	21	15	6.4	40	197	11	2.8	1.1	.61	.72
11	13	9.3	17	13	6.2	35	180	10	2.8	1.1	.61	.72
12	7.6	8.1	26	12	6.0	31	176	9.6	2.8	1.1	.61	.72
13	5.0	7.4	19	11	6.1	28	125	8.8	2.7	1.1	.61	.72
14	3.7	7.0	15	11	10	26	91	8.1	2.4	1.1	.72	.72
15	3.5	107	13	10	20	24	72	7.4	2.4	1.0	.85	.72
16	3.4	74	12	9.8	18	23	59	7.4	2.1	.99	.85	.72
17	3.0	35	11	9.8	20	21	52	6.8	1.9	.99	.85	.72
18	2.9	22	11	9.3	16	23	45	5.5	1.9	.99	1.1	.72
19	2.9	18	9.8	9.1	41	22	39	6.2	1.9	.99	1.7	.72
20	2.9	19	9.1	8.6	32	19	36	5.0	1.9	.99	1.5	.72
21	2.8	16	18	8.5	22	17	32	4.6	1.9	.99	.99	.72
22	2.7	14	56	8.5	18	16	31	4.9	1.7	.99	.99	.72
23	2.7	12	35	8.5	15	15	28	4.5	1.7	.99	.99	.61
24	2.7	11	28	8.1	14	15	25	4.5	1.7	.99	.99	.61
25	3.4	11	24	7.9	45	15	23	4.1	1.5	.99	.99	.61
26	48	9.8	21	7.9	121	14	22	4.0	1.4	.89	.99	.61
27	16	9.1	20	7.5	135	13	21	3.5	1.3	.85	.99	.61
28	8.6	8.5	18	7.4	84	13	21	3.5	1.3	.85	.99	.61
29	10	7.9	17	7.4	321	12	20	3.5	1.3	.85	.99	.61
30	70	7.9	16	7.4	---	11	19	3.5	1.3	.85	.99	.61
31	24	---	14	7.4	---	12	---	3.5	---	.85	.99	---
TOTAL	315.52	496.2	856.6	315.1	1018.6	1374	1882	260.9	66.9	33.14	27.27	21.52
MEAN	10.2	16.5	27.6	10.2	35.1	44.3	62.7	8.42	2.23	1.07	.88	.72
MAX	70	107	188	16	321	162	260	18	3.2	1.3	1.7	.99
MIN	.92	6.4	7.9	7.4	6.0	11	10	3.5	1.3	.85	.61	.61
AC-FT	626	984	1700	625	2020	2730	3730	517	133	66	54	43

CAL YR 1975 TOTAL 43373.86 MEAN 119 MAX 3170 MIN .92 AC-FT 86030
WTR YR 1976 TOTAL 6667.75 MEAN 18.2 MAX 321 MIN .61 AC-FT 13230

NOTE.--No gage-height record Mar. 5 to Apr. 9.

11464500 DRY CREEK NEAR CLOVERDALE, CA

LOCATION.--Lat 38°44'59", long 123°05'28", in NE¼NE¼ sec.5, T.10 N., R.11 W., Sonoma County, on left bank 500 ft (152 m) downstream from Smith Creek, and 5 mi (8 km) southwest of Cloverdale.

DRAINAGE AREA.--87.8 mi^2 (227.4 km^2).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1395: 1942(M), 1943, 1946(M), 1951-54(M), drainage area.

GAGE.--Water-stage recorder. Datum of gage is 304.04 ft (92.671 m) above mean sea level.

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

AVERAGE DISCHARGE.--35 years, 162 ft^3/s (4.588 m^3/s), 117,400 acre-ft/yr (145 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,100 ft^3/s (513 m^3/s) Dec. 22, 1964, gage height, 18.09 ft (5.514 m); minimum, 0.10 ft^3/s (0.003 m^3/s) several days in 1944, 1949, 1951-53, 1962, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in December 1937 reached a stage of about 18 ft (5.5 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 837 ft^3/s (23.7 m^3/s) Feb. 29, gage height, 4.65 ft (1.417 m), no peak above base of 3,300 ft^3/s (93 m^3/s); minimum daily, 0.30 ft^3/s (0.008 m^3/s) Aug. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.92	23	8.4	13	8.9	232	17	21	5.8	1.4	.60	.69
2	.97	17	8.4	13	8.7	219	16	20	5.4	1.4	.60	.60
3	1.1	12	7.9	12	8.5	230	16	19	5.2	1.4	.53	.59
4	1.0	9.3	9.9	12	8.4	195	15	18	5.0	1.4	.53	.59
5	1.0	7.9	241	12	8.6	145	15	18	4.9	1.3	.52	.69
6	1.1	7.2	111	12	8.0	114	35	18	4.8	1.2	.47	.74
7	1.3	8.6	58	12	7.9	93	153	17	4.8	1.2	.42	.79
8	1.2	8.6	41	11	7.9	78	400	16	5.0	1.1	.42	.79
9	19	7.2	32	12	8.0	68	185	16	4.9	1.1	.44	.76
10	59	18	26	14	7.4	60	273	15	4.9	1.1	.42	.69
11	25	16	23	13	7.4	53	259	14	4.7	1.0	.33	.69
12	15	12	31	13	7.4	47	279	13	4.5	1.0	.30	.70
13	8.6	9.3	24	12	8.1	42	189	12	4.2	1.1	.41	.70
14	6.1	8.6	20	12	11	38	139	11	4.0	1.1	.41	.68
15	4.7	131	18	12	22	36	105	11	3.7	.93	1.2	.65
16	4.2	97	16	11	20	33	84	10	3.3	.92	1.2	.68
17	3.8	45	15	11	22	31	70	9.9	3.1	.96	1.5	.79
18	3.8	28	14	11	17	35	61	9.4	3.0	.96	2.6	.79
19	3.4	21	13	10	43	33	53	9.5	2.9	.94	3.7	.78
20	3.0	24	13	10	38	27	47	8.9	3.0	.85	2.6	.83
21	3.0	18	13	9.9	25	26	42	8.6	3.0	.73	2.2	.83
22	2.7	15	29	9.7	19	24	38	8.6	2.8	.71	2.2	.79
23	2.7	13	26	9.4	16	23	34	7.9	2.6	.69	1.9	.77
24	2.7	12	22	9.4	14	23	31	7.7	2.4	.69	1.3	.70
25	4.2	11	20	9.2	43	23	28	7.4	2.1	.68	1.0	.77
26	55	10	18	8.9	145	20	26	7.1	1.9	.57	.89	.77
27	27	9.4	17	8.9	184	20	26	6.5	1.7	.57	.89	.85
28	15	8.9	16	8.9	130	19	25	6.1	1.6	.59	.69	1.1
29	12	8.4	15	8.9	410	18	24	6.0	1.5	.59	.69	1.3
30	83	7.9	14	8.9	---	17	23	6.1	1.4	.53	.69	1.2
31	36	---	14	8.9	---	18	---	6.1	---	.58	.69	---
TOTAL	407.49	624.3	934.6	339.0	1264.2	2040	2708	364.8	108.1	29.29	32.34	23.30
MEAN	13.1	20.8	30.1	10.9	43.6	65.8	90.3	11.8	3.60	.94	1.04	.78
MAX	83	131	241	14	410	232	400	21	5.8	1.4	3.7	1.3
MIN	.92	7.2	7.9	8.9	7.4	17	15	6.0	1.4	.53	.30	.59
AC-FT	808	1240	1850	672	2510	4050	5370	724	214	58	64	46

CAL YR 1975 TOTAL 55715.51 MEAN 153 MAX 3960 MIN .86 AC-FT 110500
WTR YR 1976 TOTAL 8875.42 MEAN 24.2 MAX 410 MIN .30 AC-FT 17600

11464500 DRY CREEK NEAR CLOVERDALE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: May 1965 to current year.
INSTRUMENTATION.--Temperature recorder since May 1965.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1966, 1968-76), 33.5°C Aug. 6, 7, 1966; minimum (water years 1967-76), 2.0°C Dec. 10, 1972.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 31.5°C July 10; minimum, 3.0°C Jan. 2.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	12.5	9.0	8.0	4.0	12.0	7.0	11.0	9.0
2	---	---	---	---	12.5	9.5	7.5	3.0	13.0	8.0	9.0	5.0
3	---	---	---	---	12.5	9.0	8.0	4.0	11.5	7.0	11.0	6.0
4	22.5	16.0	---	---	10.5	8.5	10.0	5.0	9.5	6.5	11.0	7.0
5	22.0	15.5	---	---	11.0	10.5	10.5	7.0	9.0	6.5	12.0	7.0
6	19.0	16.0	---	---	11.5	10.5	10.0	5.0	8.5	6.0	13.0	7.0
7	19.5	14.0	---	---	11.5	9.0	11.0	5.5	10.0	5.0	13.5	8.5
8	17.5	14.0	---	---	11.0	8.5	10.5	7.0	9.5	6.0	14.0	10.0
9	16.0	14.5	---	---	10.5	8.0	12.0	9.0	11.0	6.0	15.5	9.0
10	18.0	15.5	---	---	10.5	9.0	11.0	6.5	11.0	5.0	13.5	11.0
11	17.5	16.0	---	---	10.0	9.0	10.5	7.0	11.0	5.0	16.0	9.0
12	19.0	15.5	---	---	10.5	8.0	11.5	7.5	12.5	6.5	16.0	9.0
13	19.0	14.5	---	---	10.0	6.5	11.0	7.5	9.5	8.0	16.0	9.0
14	20.0	14.5	---	---	9.0	5.0	12.0	8.5	9.5	7.0	16.0	9.5
15	20.0	14.0	13.5	12.5	8.5	4.5	12.5	7.5	12.0	8.0	17.0	10.0
16	20.0	14.5	13.5	11.5	9.5	5.0	12.5	7.5	10.0	9.0	16.5	11.5
17	19.0	14.5	12.5	9.5	10.0	6.0	12.0	7.0	13.5	9.5	17.5	11.5
18	20.0	16.0	11.5	8.5	9.5	5.0	12.0	6.5	13.5	9.0	16.5	12.0
19	20.0	14.5	10.5	7.5	9.0	5.0	11.0	5.5	13.0	9.5	16.0	10.0
20	20.0	15.0	11.5	9.5	8.5	5.0	11.0	5.5	12.5	7.5	17.5	9.5
21	19.5	15.0	12.0	8.5	8.0	6.5	10.5	6.0	12.5	7.0	18.5	10.5
22	16.5	14.0	11.5	8.5	9.0	7.0	11.0	6.0	11.5	8.0	17.0	11.5
23	16.0	12.0	12.0	8.0	10.0	7.5	10.5	7.5	12.0	8.0	16.0	10.5
24	16.5	11.0	12.0	8.0	10.0	6.0	12.0	7.5	14.0	8.0	14.5	11.0
25	14.0	12.5	12.5	8.5	11.0	7.5	11.0	5.5	11.5	10.5	17.0	9.5
26	16.0	13.5	11.0	9.0	11.0	9.0	10.5	5.5	12.0	10.5	16.0	10.0
27	16.0	13.0	11.0	9.0	12.0	9.0	11.0	5.0	12.5	11.0	15.0	9.5
28	16.5	12.0	9.5	6.5	12.0	8.0	10.5	4.5	14.0	11.5	17.0	11.0
29	---	---	9.0	6.0	12.0	7.5	10.5	5.5	12.5	10.0	19.0	10.5
30	---	---	9.5	7.0	11.0	7.5	11.0	5.5	---	---	19.5	11.5
31	---	---	---	---	9.0	5.0	11.5	6.5	---	---	16.5	10.5
MONTH	22.5	11.0	---	---	12.5	4.5	12.5	3.0	14.0	5.0	19.5	5.0

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

11464860 WARM SPRINGS CREEK NEAR ASTI, CA

LOCATION.--Lat 38°41'46", long 123°05'44", in SW¼SE¼ sec.20, T.10 N., R.11 W., Sonoma County, on left bank, 0.6 mi (1.0 km) upstream from Strawberry Creek, 7.9 mi (12.7 km) southwest of Asti.

DRAINAGE AREA.--12.2 mi^2 (31.6 km^2).

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

GAGE.--Water-stage recorder. Altitude of gage is 625 ft (191 m), from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,230 ft^3/s (63.2 m^3/s) Jan. 16, 1974, gage height, 9.66 ft (2.944 m); minimum daily, 0.05 ft^3/s (0.001 m^3/s) July 25-27, Sept. 9, 10, 15, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 204 ft^3/s (5.78 m^3/s) Apr. 7, gage height, 4.75 ft (1.448 m), no peak above base of 450 ft^3/s (13 m^3/s); minimum daily, 0.05 ft^3/s (0.001 m^3/s) July 25-27, Sept. 9, 10, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.27	2.9	2.0	2.5	1.6	34	2.4	4.2	1.2	.37	.23	.11
2	.28	2.5	1.9	2.3	1.6	33	2.4	3.9	1.2	.37	.19	.11
3	.27	2.2	1.8	2.3	1.6	31	2.3	3.7	1.1	.37	.19	.07
4	.27	2.0	4.3	2.3	1.6	25	2.3	3.5	1.1	.37	.28	.11
5	.26	1.9	29	2.5	1.6	20	2.4	3.2	1.1	.37	.15	.11
6	.29	1.9	13	2.3	1.6	17	7.9	3.1	1.1	.33	.15	.07
7	.40	2.5	8.4	2.1	1.5	14	63	2.9	1.1	.28	.15	.11
8	.40	2.2	6.6	2.1	1.6	12	84	2.8	1.1	.28	.15	.07
9	11	2.1	5.4	3.6	1.6	11	39	2.8	1.1	.23	.07	.05
10	8.6	3.4	4.6	2.8	1.5	9.3	50	2.7	1.1	.19	.07	.05
11	4.0	2.5	4.2	2.5	1.5	8.2	52	2.5	1.1	.19	.07	.11
12	2.2	2.3	5.5	2.3	1.5	7.2	47	2.3	1.1	.23	.07	.19
13	1.5	2.2	4.0	2.3	1.8	6.5	36	2.1	.97	.19	.07	.15
14	1.3	2.0	3.4	2.1	3.4	5.9	27	2.0	.89	.15	.42	.07
15	1.2	22	3.1	2.1	3.6	5.5	22	1.9	.79	.19	.73	.05
16	1.1	12	3.1	2.0	3.6	4.9	18	1.8	.79	.19	.42	.07
17	1.1	6.5	2.9	2.0	3.2	4.6	15	1.8	.73	.23	.57	.11
18	1.1	4.6	2.8	2.0	2.9	5.1	13	1.7	.73	.23	1.1	.11
19	1.0	3.6	2.6	1.9	6.8	4.3	11	1.7	.73	.19	.98	.07
20	1.0	3.8	2.5	1.9	5.0	3.9	10	1.6	.79	.15	.57	.11
21	1.0	3.0	4.7	1.8	3.8	3.6	9.0	1.6	.79	.15	.47	.11
22	1.0	2.7	6.6	1.8	3.2	3.4	8.2	1.6	.73	.11	.47	.11
23	1.1	2.5	4.8	1.8	2.9	3.3	7.5	1.5	.62	.11	.42	.07
24	1.1	2.3	4.2	1.8	2.8	3.8	6.8	1.5	.57	.11	.37	.07
25	2.9	2.2	3.8	1.7	5.2	3.3	6.1	1.4	.47	.05	.33	.11
26	24	2.0	3.5	1.7	14	3.0	5.8	1.3	.42	.05	.33	.15
27	4.0	2.0	3.3	1.7	19	2.9	5.4	1.3	.42	.05	.28	.33
28	2.5	2.0	3.1	1.7	15	2.9	5.1	1.2	.37	.07	.23	.52
29	3.1	1.9	2.9	1.7	56	2.7	4.8	1.2	.33	.15	.19	.52
30	9.3	1.8	2.8	1.6	---	2.6	4.4	1.2	.37	.11	.15	.42
31	4.0	---	2.6	1.6	---	2.7	---	1.3	---	.15	.15	---
TOTAL	91.54	107.5	153.4	64.8	171.0	296.6	569.8	67.3	24.91	6.21	10.02	4.31
MEAN	2.95	3.58	4.95	2.09	5.90	9.57	19.0	2.17	.83	.20	.32	.14
MAX	24	22	29	3.6	56	34	84	4.2	1.2	.37	1.1	.52
MIN	.26	1.8	1.8	1.6	1.5	2.6	2.3	1.2	.33	.05	.07	.05
AC-FT	182	213	304	129	339	588	1130	133	49	12	20	8.5

CAL YR 1975 TOTAL 10465.66 MEAN 28.7 MAX 521 MIN .22 AC-FT 20760
WTR YR 1976 TOTAL 1567.39 MEAN 4.28 MAX 84 MIN .05 AC-FT 3110

11465200 DRY CREEK NEAR GEYSERVILLE, CA

LOCATION.--Lat 38°41'55", long 122°57'25", in Tzabaco Grant, Sonoma County, on left bank pier of bridge 0.3 mi (0.5 km) downstream from Pena Creek, and 3 mi (5 km) west of Geyserville.

DRAINAGE AREA.--162 mi^2 (420 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 158.40 ft (48.280 m), above mean sea level. Prior to Oct. 1, 1964, at datum 2.00 ft (0.610 m) higher. Oct. 1, 1964, to Apr. 8, 1976, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good except those for period of no gage-height record, which are fair. No regulation; small diversions above station for orchard irrigation of about 1,200 acres (4.86 km^2) in summer.

COOPERATION.--Three discharge measurements were furnished by Sonoma County Water Agency.

AVERAGE DISCHARGE.--17 years, 327 ft^3/s (9.261 m^3/s), 236,900 acre-ft/yr (292 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,400 ft^3/s (918 m^3/s) Jan. 31, 1963, gage height, 18.50 ft (5.639 m) present datum; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,630 ft^3/s (46.2 m^3/s) Feb. 29, gage height, 5.80 ft (1.768 m) present datum, no peak above base of 8,200 ft^3/s (232 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.45	40	13	28	18	463	28	40	8.2	.48		
2	.40	29	12	27	18	353	27	38	7.2	.57		
3	.30	25	12	25	18	371	26	36	6.2	.48		
4	.32	21	14	25	18	322	26	33	5.4	.57		
5	.32	19	330	25	18	232	25	32	4.9	.48		
6	.30	18	220	25	18	182	42	29	5.0	.40		
7	.30	17	125	24	18	150	255	25	5.0	.48		
8	.35	18	80	24	18	127	856	23	5.0	.48		
9	48	17	66	26	17	108	358	23	4.8	.48		
10	102	20	57	31	16	95	480	25	4.9	.40		
11	54	25	47	28	16	84	448	24	4.1	.40		
12	42	20	48	26	16	73	543	23	4.2	.31		
13	29	17	48	26	16	66	347	22	4.4	.31		
14	20	13	42	25	19	61	247	20	4.2	.17		
15	16	192	39	24	33	56	185	19	3.1	.12		
16	13	150	37	23	31	53	150	18	2.6	.17		
17	13	80	36	23	37	50	126	17	2.3	.17		
18	10	48	34	22	32	49	110	17	1.9	.24		
19	9.0	31	33	22	43	52	96	16	1.4	.31		
20	8.1	35	32	21	54	46	86	15	1.5	.08		
21	7.3	29	33	20	42	42	78	14	1.9	0		
22	6.8	24	67	20	36	40	72	14	1.6	0		
23	6.4	20	58	19	33	37	67	13	1.2	0		
24	6.2	18	46	19	31	36	61	11	.88	0		
25	6.4	16	41	19	33	37	56	11	.31	0		
26	68	15	38	18	125	35	54	10	.08	0		
27	53	14	36	18	255	33	50	9.6	.06	0		
28	29	13	34	18	180	32	47	9.4	.08	0		
29	20	12	32	18	668	31	44	9.0	.24	0		
30	78	12	30	18	---	30	42	8.8	.31	0		
31	64	---	29	18	---	29	---	8.4	---	0		---
TOTAL	711.94	1008	1769	705	1877	3375	5032	613.2	92.96	7.10	0	0
MEAN	23.0	33.6	57.1	22.7	64.7	109	168	19.8	3.10	.23	0	0
MAX	102	192	330	31	668	463	856	40	8.2	.57	0	0
MIN	.30	12	12	18	16	29	25	8.4	.06	0	0	0
AC-FT	1410	2000	3510	1400	3720	6690	9980	1220	184	14	0	0

CAL YR 1975 TOTAL 120101.25 MEAN 329 MAX 7530 MIN .30 AC-FT 238200
WTR YR 1976 TOTAL 15191.20 MEAN 41.5 MAX 856 MIN 0 AC-FT 30130

NOTE.--No gage-height record Nov. 13 to Dec. 12.

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.
CHEMICAL ANALYSES: Water years 1971 to current year.
WATER TEMPERATURES: Water years 1964 to current year.
SEDIMENT RECORDS: Water years 1964 to current year.
TURBIDITY: Water years 1964 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: March 1964 to current year.
SEDIMENT RECORDS: March 1964 to current year.

INSTRUMENTATION.--Temperature recorder since November 1964.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1965-75), 26.5°C Aug. 11, 1971, Aug. 23, 1974; minimum (water years 1965-66, 1968-76), 3.5°C Jan. 3, 1974.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 15,000 mg/L (estimated) Dec. 22, 1964; minimum daily mean, no flow for many days in 1964, 1966, 1970-76.
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, 1968-76).

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Minimum, 6.0°C Mar. 2, 3.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 245 mg/L Apr. 8; minimum daily mean, no flow for many days.
SEDIMENT DISCHARGE: Maximum daily, 584 tons (530 tonnes) Apr. 8; minimum daily, 0 tons (0 tonnes) on many days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT											
22...	1135	6.9	270	7.3	16.0	1	9.3	95	130	0	27
MAR											
08...	0955	128	206	7.6	10.0	2	9.8	88	90	0	20
APR											
09...	1140	354	180	8.1	10.5	15	10.7	97	78	0	17
JUN											
15...	1030	4.3	263	7.0	21.0	1	7.6	86	120	6	26
AUG											
18...	0910	.00	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
OCT											
22...	14	12	17	.5	.8	162	0	121	16	4.5	.1
MAR											
08...	9.8	10	19	.5	.8	120	0	94	16	3.9	.3
APR											
09...	8.6	8.5	19	.4	.8	100	0	85	13	3.4	.1
JUN											
15...	14	13	19	.5	.9	142	0	118	17	5.5	.3
AUG											
18...	--	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT											
22...	17	172	.23	3.23	.10	.10	.00	.04	.08	.00	.08
MAR											
08...	15	136	.19	47.0	.13	.11	.02	.02	.03	.03	.05
APR											
09...	14	115	.16	110	.04	.04	.04	.04	.18	.08	.22
JUN											
15...	18	165	.22	1.92	.04	.04	.00	.01	.05	.01	.05
AUG											
18...	--	--	--	--	--	--	--	--	--	--	--

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SUS-PENDED KJEL. NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (P04) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)
OCT											
22...	.08	.00	.18	.02	.01	.03	1	--	7	510	0
MAR											
08...	.00	.05	.18	.02	.01	.03	0	0	4	280	<10
APR											
09...	.10	.12	.26	.07	.01	.03	1	0	5	190	<10
JUN											
15...	.03	.02	.09	.02	.01	.03	1	0	7	490	0
AUG											
18...	--	--	--	--	--	--	--	--	20	--	--

DATE	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
OCT											
22...	--	1	0	--	29	0	--	13	20	4	--
MAR											
08...	0	1	0	20	49	<10	1	14	10	3	1
APR											
09...	0	1	10	0	53	60	1	24	0	4	0
JUN											
15...	0	<10	20	0	40	1	2	20	10	3	3
AUG											
18...	--	1	--	--	1	--	--	13	--	--	--

DATE	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	SUS-PENDED ORGANIC CARBON (C) (MG/L)
OCT										
22...	5	.0	.0	.0	10	--	48	--	2.0	.2
MAR										
08...	10	.0	.0	.3	0	0	33	1.3	--	--
APR										
09...	10	.1	.1	.5	10	0	170	3.0	--	--
JUN										
15...	10	.0	.0	.1	10	20	40	1.8	--	--
AUG										
18...	6	--	--	.3	--	--	19	--	--	--

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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	--	--	--	--	13.5	-- 11.5		10.5	-- 8.0		13.0	-- 10.5		11.0	-- 8.0	
2	--	--	--	--	--	--	13.0	-- 11.0		10.0	-- 8.0		13.0	-- 10.5		9.0	-- 6.0	
3	--	20.0	--	--	--	--	13.0	-- 10.5		10.0	-- 8.0		11.5	-- 9.5		11.0	-- 6.0	
4	--	18.0	--	--	--	--	12.5	-- 11.0		11.0	-- 8.0		11.0	-- 9.5		11.0	-- 7.5	
5	--	--	--	16.0	--	14.5	12.0	-- 10.5		10.5	-- 9.5		10.5	-- 9.5		11.5	-- 7.0	
6	--	--	--	16.0	--	13.5	12.0	-- 10.5		10.0	-- 7.5		10.5	-- 8.5		11.5	-- 7.5	
7	--	13.0	--	16.5	--	14.5	12.0	-- 10.5		10.0	-- 8.0		11.0	-- 8.0		12.5	-- 8.0	
8	--	--	--	15.0	--	13.0	12.0	-- 10.0		10.0	-- 9.0		11.0	-- 9.0		13.0	-- 10.0	
9	--	--	--	14.5	--	12.0	11.5	-- 10.5		11.0	-- 9.5		13.0	-- 9.0		14.0	-- 9.5	
10	--	15.0	--	15.0	--	13.5	11.5	-- 10.5		10.0	-- 7.5		12.5	-- 9.5		12.0	-- 11.0	
11	--	--	--	14.0	--	11.0	11.5	-- 11.0		10.0	-- 8.0		12.5	-- 9.5		14.0	-- 9.5	
12	--	--	--	14.0	--	11.0	11.0	-- 10.0		10.0	-- 8.5		13.5	-- 10.0		14.5	-- 10.0	
13	--	--	--	14.0	--	11.0	11.0	-- 9.0		10.5	-- 8.5		12.0	-- 11.5		14.5	-- 10.5	
14	--	20.0	--	14.0	--	12.0	10.0	-- 8.0		11.0	-- 9.0		12.0	-- 10.0		15.5	-- 10.5	
15	--	--	--	14.0	--	12.5	10.0	-- 8.0		12.0	-- 9.5		13.0	-- 10.0		15.5	-- 11.0	
16	--	--	--	12.5	--	11.0	10.5	-- 8.0		12.5	-- 10.0		12.0	-- 10.5		15.5	-- 12.0	
17	--	--	--	11.5	--	9.5	10.5	-- 8.5		13.0	-- 10.5		14.0	-- 10.5		16.5	-- 12.5	
18	--	21.5	--	11.5	--	9.5	10.5	-- 8.5		12.0	-- 9.5		14.0	-- 10.5		15.0	-- 12.5	
19	--	--	--	11.5	--	9.5	10.5	-- 8.0		12.0	-- 9.0		14.0	-- 11.0		15.0	-- 11.0	
20	--	--	--	13.0	--	11.0	11.0	-- 8.5		11.5	-- 8.5		12.5	-- 9.0		15.5	-- 11.0	
21	--	--	--	12.5	--	10.0	11.0	-- 8.5		11.0	-- 8.5		12.5	-- 9.0		16.5	-- 12.0	
22	--	16.0	--	12.5	--	10.0	10.5	-- 9.5		11.0	-- 8.5		12.0	-- 10.0		16.0	-- 12.5	
23	--	--	--	13.0	--	10.5	11.0	-- 9.0		11.0	-- 9.0		13.0	-- 10.0		--	-- --	
24	--	--	--	13.5	--	11.0	11.0	-- 9.0		11.0	-- 8.5		14.0	-- 10.0		--	13.0 --	
25	--	12.0	--	13.5	--	11.0	12.0	-- 10.0		10.0	-- 7.5		13.5	-- 11.5		--	-- --	
26	--	--	--	13.0	--	11.5	12.5	-- 11.0		10.0	-- 7.5		12.5	-- 11.5		--	15.0 --	
27	--	16.5	--	12.5	--	11.0	13.0	-- 11.5		10.0	-- 7.5		14.0	-- 11.5		--	-- --	
28	--	--	--	11.0	--	9.5	13.0	-- 10.5		10.5	-- 7.5		14.0	-- 12.0		--	-- --	
29	--	--	--	11.0	--	8.5	13.0	-- 11.0		12.0	-- 9.0		13.0	-- 11.0		--	12.0 --	
30	--	--	--	11.5	--	10.0	12.0	-- 10.5		12.5	-- 10.0		--	-- --		--	-- --	
31	--	13.0	--	--	--	--	10.5	-- 9.0		13.0	-- 10.0		--	-- --		--	13.0 --	
MONTH	--	--	--	16.5	--	8.5	13.5	-- 8.0		13.0	-- 7.5		14.0	-- 8.0		--	-- --	

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	--	15.5	--	20.0	--	15.0	--	20.0 --		22.0	-- 21.0		--	-- --		--	-- --	
2	16.0	--	11.5	19.0	--	14.5	--	15.0 --		22.0	-- 20.5		--	-- --		--	-- --	
3	15.0	--	12.0	20.0	--	14.5	--	19.5 --		22.0	-- 21.0		--	-- --		--	-- --	
4	16.5	--	12.0	20.0	--	15.0	22.0	-- 17.0		22.0	-- 21.0		--	-- --		--	-- --	
5	14.5	--	13.0	20.0	--	14.5	22.0	-- 17.0		22.5	-- 21.0		--	-- --		--	-- --	
6	15.5	--	13.0	20.0	--	15.0	22.0	-- 17.0		22.5	-- 21.0		--	-- --		--	-- --	
7	13.0	--	11.0	20.5	--	15.5	22.0	-- 17.5		22.5	-- 21.5		--	-- --		--	-- --	
8	13.5	--	10.0	20.0	--	16.0	21.5	-- 17.0		23.0	-- 22.0		--	-- --		--	-- --	
9	14.0	--	10.0	20.0	--	16.0	21.0	-- 18.0		23.0	-- 22.0		--	-- --		--	-- --	
10	14.0	--	11.0	20.5	--	16.0	22.0	-- 18.0		23.0	-- 22.0		--	-- --		--	-- --	
11	11.0	--	9.5	21.0	--	16.0	22.0	-- 17.5		23.0	-- 22.0		--	-- --		--	-- --	
12	13.0	--	10.0	22.0	--	16.5	23.0	-- 18.0		23.0	-- 22.0		--	-- --		--	-- --	
13	15.5	--	9.5	22.0	--	17.0	23.0	-- 18.0		24.0	-- 22.0		--	-- --		--	-- --	
14	16.5	--	10.5	22.0	--	17.0	23.0	-- 18.0		24.0	-- 21.5		--	-- --		--	-- --	
15	15.0	--	11.5	22.0	--	16.5	23.0	-- 19.0		23.5	-- 22.0		--	-- --		--	-- --	
16	15.5	--	10.0	21.5	--	17.5	23.5	-- 19.5		23.0	-- 22.0		--	-- --		--	-- --	
17	16.0	--	11.0	21.0	--	16.0	23.5	-- 20.0		23.0	-- 22.0		--	-- --		--	-- --	
18	18.0	--	12.5	21.0	--	15.5	23.5	-- 20.0		23.0	-- 21.5		--	-- --		--	-- --	
19	18.5	--	12.5	21.0	--	15.5	23.0	-- 20.0		22.5	-- 20.5		--	-- --		--	-- --	
20	19.0	--	13.5	21.5	--	16.0	22.0	-- 20.0		22.5	-- 20.5		--	-- --		--	-- --	
21	17.0	--	13.5	21.0	--	16.0	23.0	-- 19.0		--	-- --		--	-- --		--	-- --	
22	19.0	--	14.0	21.0	--	16.5	23.0	-- 19.0		--	-- --		--	-- --		--	-- --	
23	19.0	--	14.0	21.0	--	16.0	23.0	-- 19.0		--	-- --		--	-- --		--	-- --	
24	19.5	--	14.5	--	24.0	--	22.5	-- 20.0		--	-- --		--	-- --		--	-- --	
25	18.0	--	13.0	--	--	--	22.0	-- 20.5		--	-- --		--	-- --		--	-- --	
26	18.0	--	13.0	--	19.0	--	22.5	-- 20.5		--	-- --		--	-- --		--	-- --	
27	18.0	--	13.0	--	--	--	23.0	-- 21.0		--	-- --		--	-- --		--	-- --	
28	18.0	--	14.0	--	14.0	--	23.0	-- 21.0		--	-- --		--	-- --		--	-- --	
29	18.5	--	14.0	--	--	--	23.0	-- 21.0		--	-- --		--	-- --		--	-- --	
30	19.5	--	14.0	--	--	--	23.0	-- 21.0		--	-- --		--	-- --		--	-- --	
31	--	--	--	--	21.0	--	--	-- --		--	-- --		--	-- --		--	-- --	
MONTH	19.5	--	9.5	--	--	--	23.5	-- 17.0		--	-- --		--	-- --		--	-- --	

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	.45	4	0	40	15	1.6	13	2	.07
2	.40	3	0	29	12	.94	12	2	.06
3	.30	2	0	25	10	.68	12	2	.06
4	.32	7	.01	21	7	.40	14	1	.04
5	.32	8	.01	19	5	.26	330	200	178
6	.30	9	.01	18	4	.19	220	31	18
7	.30	10	.01	17	7	.32	125	10	3.4
8	.35	14	.01	18	11	.53	80	3	.65
9	48	130	17	17	9	.41	66	3	.53
10	102	238	66	20	8	.43	57	2	.31
11	54	135	20	25	9	.61	47	1	.13
12	42	78	8.8	20	9	.49	48	2	.26
13	29	39	3.1	17	9	.41	48	1	.13
14	20	21	1.1	13	12	.42	42	3	.34
15	16	18	.78	192	65	34	39	4	.42
16	13	16	.56	150	40	16	37	2	.20
17	13	16	.56	80	25	5.4	36	6	.58
18	10	15	.41	48	20	2.6	34	2	.18
19	9.0	11	.27	31	15	1.3	33	2	.18
20	8.1	8	.18	35	13	1.2	32	1	.09
21	7.3	6	.12	29	8	.63	33	1	.09
22	6.8	5	.09	24	6	.39	67	16	3.0
23	6.4	5	.09	20	1	.05	58	4	.63
24	6.2	6	.10	18	1	.05	46	4	.50
25	6.4	6	.10	16	1	.04	41	3	.33
26	68	28	6.1	15	1	.04	38	12	1.2
27	53	18	2.6	14	2	.08	36	4	.39
28	29	10	.78	13	2	.07	34	3	.28
29	20	5	.27	12	2	.06	32	5	.43
30	78	26	6.9	12	4	.13	30	3	.24
31	64	22	3.8	---	---	---	29	5	.39
MONTH	711.94	---	139.76	1008	---	69.73	1769	---	211.11

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	28	5	.38	18	3	.15	463	74	106
2	27	3	.22	18	2	.10	353	31	30
3	25	2	.14	18	1	.05	371	32	32
4	25	2	.14	18	1	.05	322	22	19
5	25	1	.07	18	2	.10	232	12	7.5
6	25	1	.07	18	2	.10	182	9	4.4
7	24	3	.19	18	1	.05	150	7	2.8
8	24	3	.19	18	1	.05	127	4	1.4
9	26	2	.14	17	2	.09	108	3	.87
10	31	3	.25	16	3	.13	95	3	.77
11	28	2	.15	16	4	.17	84	2	.45
12	26	2	.14	16	3	.13	73	2	.39
13	26	4	.28	16	3	.13	66	2	.36
14	25	4	.27	19	3	.15	61	3	.49
15	24	6	.39	33	19	1.7	56	3	.45
16	23	6	.37	31	13	1.1	53	3	.43
17	23	3	.19	37	9	.90	50	3	.41
18	22	2	.12	32	3	.26	49	2	.26
19	22	4	.24	43	8	1.2	52	2	.28
20	21	5	.28	54	16	2.3	46	2	.25
21	20	7	.38	42	9	1.0	42	1	.11
22	20	5	.27	36	5	.49	40	1	.11
23	19	4	.21	33	3	.27	37	1	.10
24	19	3	.15	31	1	.08	36	1	.10
25	19	2	.10	33	8	.84	37	2	.20
26	18	1	.05	125	26	10	35	2	.19
27	18	1	.05	255	35	24	33	2	.18
28	18	1	.05	180	13	6.3	32	1	.09
29	18	3	.15	668	199	547	31	1	.08
30	18	3	.15	---	---	---	30	1	.08
31	18	3	.15	---	---	---	29	2	.16
MONTH	705	---	5.93	1877	---	598.89	3375	---	209.91

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	28	2	.15	40	2	.22	8.2	5	.11
2	27	2	.15	38	2	.21	7.2	5	.10
3	26	2	.14	36	2	.19	6.2	5	.08
4	26	2	.14	33	2	.18	5.4	5	.07
5	25	2	.14	32	3	.26	4.9	4	.05
6	42	7	.87	29	2	.16	5.0	4	.05
7	255	116	207	25	2	.14	5.0	5	.07
8	856	245	584	23	2	.12	5.0	6	.08
9	358	52	57	23	3	.19	4.8	10	.13
10	480	145	250	25	3	.20	4.9	9	.12
11	448	132	185	24	3	.19	4.1	9	.10
12	543	109	168	23	3	.19	4.2	9	.10
13	347	46	43	22	2	.12	4.4	10	.12
14	247	14	9.3	20	4	.22	4.2	10	.11
15	185	9	4.5	19	4	.21	3.1	6	.05
16	150	8	3.2	18	3	.15	2.6	6	.04
17	126	8	2.7	17	3	.14	2.3	7	.04
18	110	10	3.0	17	3	.14	1.9	8	.04
19	96	12	3.1	16	3	.13	1.4	7	.03
20	86	11	2.6	15	3	.12	1.5	8	.03
21	78	8	1.7	14	4	.15	1.9	4	.02
22	72	5	.97	14	4	.15	1.6	5	.02
23	67	3	.54	13	4	.14	1.2	7	.02
24	61	3	.49	11	4	.12	.88	5	.01
25	56	3	.45	11	5	.15	.31	4	0
26	54	4	.58	10	6	.16	.08	4	0
27	50	3	.41	9.6	5	.13	.06	3	0
28	47	3	.38	9.4	4	.10	.08	3	0
29	44	2	.24	9.0	4	.10	.24	3	0
30	42	2	.23	8.8	5	.12	.31	3	0
31	---	---	---	8.4	6	.14	---	---	---
MONTH	5032	---	1529.98	613.2	---	4.94	92.96	---	1.59

	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	.48	3	0	0	0	0	0	0	0
2	.57	3	0	0	0	0	0	0	0
3	.48	3	0	0	0	0	0	0	0
4	.57	3	0	0	0	0	0	0	0
5	.48	4	.01	0	0	0	0	0	0
6	.40	6	.01	0	0	0	0	0	0
7	.48	8	.01	0	0	0	0	0	0
8	.48	7	.01	0	0	0	0	0	0
9	.48	6	.01	0	0	0	0	0	0
10	.40	6	.01	0	0	0	0	0	0
11	.40	7	.01	0	0	0	0	0	0
12	.31	5	0	0	0	0	0	0	0
13	.31	2	0	0	0	0	0	0	0
14	.17	4	0	0	0	0	0	0	0
15	.12	7	0	0	0	0	0	0	0
16	.17	10	0	0	0	0	0	0	0
17	.17	10	0	0	0	0	0	0	0
18	.24	9	.01	0	0	0	0	0	0
19	.31	9	.01	0	0	0	0	0	0
20	.08	7	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	---	---	---
MONTH	7.10	---	.09	0	---	0	0	---	0
YEAR	15191.20		2771.93						

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
OCT							
10...	0915	15.0	124	255	85	--	--
DEC							
05...	1210	11.5	330	340	303	45	59
FEB							
27...	1015	11.5	225	34	21	--	--
29...	1135	13.0	249	433	291	--	--
MAR							
01...	0930	8.0	462	74	92	--	--
APR							
08...	0920	10.0	913	215	530	--	--
08...	1115	10.0	859	205	475	--	--
09...	1045	11.0	353	42	40	--	--
10...	1405	14.0	769	301	625	--	--

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
OCT							
10...	--	--	--	99	100	--	--
DEC							
05...	72	84	91	93	95	99	100
FEB							
27...	--	--	--	91	91	94	100
29...	--	--	--	99	100	--	--
MAR							
01...	--	--	--	97	97	98	100
APR							
08...	--	--	--	93	96	99	100
08...	--	--	--	94	97	99	100
09...	--	--	--	88	88	94	100
10...	--	--	--	95	99	100	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
JUL								
13...	1325	24.0	1	.31	14	58	96	98
13...	1330	24.0	1	.31	--	1	2	7
13...	1335	24.0	1	.31	--	1	1	3
13...	1340	24.0	1	.31	1	2	4	10
13...	1345	24.0	1	.31	1	10	13	15
13...	1350	24.0	1	.31	2	16	20	26

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
JUL								
13...	99	99	100	--	--	--	--	--
13...	15	24	34	45	57	66	75	100
13...	8	17	32	69	99	100	--	--
13...	21	31	39	48	66	86	100	--
13...	15	17	32	57	86	100	--	--
13...	26	30	46	70	93	100	--	--

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	SUS-PENDED SEDI-MENT (MG/L)	TUR-BID-ITY (JTU)
OCT			
01...	--	5	1
03...	--	2	1
10...	--	255	250
13...	--	32	25
18...	--	15	1
22...	--	5	1
25...	--	6	1
27...	--	15	7
31...	--	24	7
NOV			
05...	--	5	1
08...	--	11	1
13...	--	9	2
14...	--	15	2
15...	--	29	2
19...	--	20	2
20...	--	12	1
22...	--	7	1
23...	--	1	1
24...	--	1	1
25...	--	1	1
26...	--	1	1
27...	--	2	1
28...	--	2	1
29...	--	2	1
30...	--	4	1
DEC			
01...	--	2	1
02...	--	2	1
03...	--	2	1
04...	--	1	1
05...	--	340	200
06...	--	31	20
07...	--	3	2
08...	--	3	2
09...	--	3	1
10...	--	2	1
11...	--	1	1
12...	1045	2	1
12...	1405	2	1
13...	--	1	1
14...	--	3	1
15...	--	4	1
16...	--	2	1
17...	--	7	1
18...	--	2	1
19...	0805	2	1
19...	1250	1	1
20...	--	1	1
21...	--	1	1
22...	--	25	15
23...	--	3	2
24...	--	4	2
26...	--	14	1
27...	--	4	1
28...	--	3	1
29...	--	5	1
30...	--	2	1
31...	--	6	1
JAN			
01...	--	6	1
02...	0855	3	1
02...	1445	3	1
02...	1525	2	1
03...	--	2	1
04...	--	2	1
05...	--	1	1
06...	--	1	1
09...	0915	3	1
09...	1015	1	1
10...	--	4	1
11...	--	2	1
12...	0830	2	1
12...	1055	1	1
12...	1315	1	1
13...	--	5	1
14...	--	4	1
15...	--	6	1
16...	--	2	1

DATE	TIME	SUS-PENDED SEDI-MENT (MG/L)	TUR-BID-ITY (JTU)
JAN			
17...	--	2	1
18...	--	2	1
19...	--	3	1
20...	--	2	1
21...	0820	1	1
21...	1500	7	1
22...	--	4	1
23...	--	1	1
27...	--	1	1
29...	--	3	1
FEB			
01...	--	3	1
02...	--	2	1
03...	--	1	1
04...	--	1	1
05...	--	2	1
06...	--	2	1
07...	--	1	1
08...	--	1	1
09...	0745	1	1
09...	1005	2	1
13...	--	3	1
18...	--	3	1
20...	--	16	3
24...	--	1	1
25...	--	7	1
27...	1015	34	20
27...	1040	36	20
27...	1200	30	15
27...	1340	29	15
28...	--	14	7
29...	--	433	250
MAR			
01...	0930	74	40
01...	1100	72	40
02...	--	27	10
03...	--	30	15
05...	--	12	8
08...	--	4	1
10...	--	3	2
12...	--	2	2
15...	--	3	1
17...	--	3	1
19...	--	2	1
22...	--	1	1
24...	--	1	1
26...	--	2	1
29...	--	1	1
31...	--	2	1
APR			
02...	--	2	1
05...	--	2	1
07...	--	3	1
08...	0920	215	150
08...	1115	205	100
08...	1405	334	150
08...	1610	335	150
08...	1800	224	70
09...	0815	60	25
09...	1045	42	20
09...	1140	--	15
09...	1200	50	20
09...	1315	44	20
10...	--	301	100
14...	--	14	7
16...	--	8	3
19...	--	12	2
23...	--	3	1
26...	1510	4	1
26...	1640	3	1
30...	--	2	1
MAY			
03...	1005	2	1
03...	1330	2	1
05...	--	3	1
07...	--	2	1
10...	--	3	2
12...	--	3	1
14...	--	4	1

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)
MAY			
17...	--	3	1
19...	--	3	1
21...	--	5	1
24...	--	4	2
26...	--	11	2
28...	--	4	1
31...	--	6	2
JUN			
02...	--	5	1
04...	--	5	1
07...	0755	4	1
07...	1430	6	1
09...	--	16	2
11...	--	9	2
14...	--	10	2
15...	--	6	2
16...	--	6	2
18...	--	8	2
20...	--	8	1
23...	--	7	1
25...	--	4	1
28...	--	3	1
30...	--	3	1
JUL			
02...	--	3	1
09...	--	6	1
11...	--	7	2
12...	--	5	1
13...	--	2	1
16...	--	10	1
19...	--	9	2

11466500 LAGUNA DE SANTA ROSA NEAR GRATON, CA

LOCATION.--Lat 38°27'10", long 122°50'03", in Molinos Grant, Sonoma County, on downstream side of left bank pier of highway bridge, 0.2 mi (0.3 km) downstream from Santa Rosa Creek, and 2 mi (3 km) northeast of Graton.

PERIOD OF RECORD.--February 1940 to September 1949 (contents only), October 1964 to current year in reports of Geological Survey. October 1949 to September 1964 available in files of district office.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Dec. 31, 1958, at site 75 ft (23 m) downstream at same datum.

REMARKS.--The laguna is a natural water channel and overflow basin connecting Santa Rosa Creek, Mark West Creek, and other smaller creeks with Russian River. During floods directions of flow may be either to or from Russian River and the laguna acts as a natural regulator of floods on lower Russian River. Elevations did not reach 55.0 ft (16.76 m).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 73.3 ft (22.34 m) Dec. 23, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 51.70 ft (15.758 m) Feb. 29, Apr. 7.

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA
(National stream-quality accounting network station)

LOCATION.--Lat 38°30'31", long 122°55'36", in NE¼SE¼ sec.26, T.8 N., R.10 W., Sonoma County, on right bank at downstream side of Hacienda bridge, 0.1 mi (0.2 km) upstream from Hobson Creek, and 3.8 mi (6.1 km) east of Guerneville.

DRAINAGE AREA.--1,338 mi^2 (3,465 km^2).

WATER-DISCHARGE RECORDS

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

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.

REMARKS.--Records good. Many diversions above station for irrigation of about 29,000 acres (117 km^2). Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations), since November 1958 by storage in Lake Mendocino (station 11461800) 77 mi (124 km^2) upstream and by diversion at Wohler pumping plant beginning in May 1959.

AVERAGE DISCHARGE.--37 years, 2,309 ft^3/s (65.39 m^3/s), 1,673,000 acre-ft/yr (2.06 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 93,400 ft^3/s (2,650 m^3/s) Dec. 23, 1964, gage height, 49.6 ft (15.12 m) 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^3/s (1.47 m^3/s) May 30, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,260 ft^3/s (149 m^3/s) Mar. 1, gage height, 11.74 ft (3.578 m), no peak above base of 23,000 ft^3/s (651 m^3/s); minimum daily, 74 ft^3/s (2.10 m^3/s) May 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	248	556	295	475	174	4340	188	261	209	158	141	113
2	250	491	288	468	168	3450	174	248	206	162	141	110
3	289	455	283	461	168	3900	150	237	186	168	142	112
4	268	432	281	445	170	2840	140	219	165	172	147	117
5	278	383	420	399	168	1980	140	205	161	175	138	129
6	265	334	1400	299	160	1540	175	193	160	174	141	138
7	265	312	930	329	158	1220	268	177	156	174	142	146
8	278	296	712	390	156	1050	2190	171	154	164	146	151
9	312	284	593	423	164	925	2240	167	146	154	142	131
10	598	308	524	390	152	787	1490	156	156	138	144	118
11	631	300	481	381	129	660	1990	150	156	138	141	109
12	498	306	481	358	133	586	2450	135	165	144	133	114
13	419	300	481	337	135	531	2030	120	167	117	125	131
14	389	285	488	321	140	481	1490	110	162	119	125	161
15	378	334	492	309	205	426	1130	98	139	121	146	139
16	381	714	514	302	192	387	908	100	131	131	166	135
17	373	780	498	299	240	337	761	117	126	140	168	175
18	355	572	492	295	337	306	668	124	125	150	177	138
19	330	465	481	288	417	345	585	128	131	155	195	133
20	328	411	481	263	508	337	415	134	136	162	199	142
21	328	378	485	213	555	326	455	135	142	158	180	160
22	326	361	590	175	445	319	437	141	144	155	164	136
23	323	353	611	199	381	331	415	143	136	148	152	131
24	322	337	583	209	337	263	395	139	119	138	132	135
25	329	326	551	209	329	255	383	124	115	131	114	142
26	462	309	531	182	534	242	366	79	119	129	106	158
27	522	304	521	172	2340	242	312	74	133	127	120	160
28	510	299	508	170	2630	234	316	91	144	125	137	174
29	506	297	495	184	2930	209	300	131	146	129	132	198
30	630	297	485	174	---	203	280	172	154	136	124	199
31	658	---	478	168	---	194	---	195	---	136	107	---
TOTAL	12049	11579	16453	9287	14555	29246	23241	4674	4489	4528	4467	4235
MEAN	389	386	531	300	502	943	775	151	150	146	144	141
MAX	658	780	1400	475	2930	4340	2450	261	209	175	199	199
MIN	248	284	281	168	129	194	140	74	115	117	106	109
AC-FT	23900	22970	32630	18420	28870	58010	46100	9270	8900	8980	8860	8400

CAL YR 1975 TOTAL 847479 MEAN 2322 MAX 62100 MIN 124 AC-FT 1681000
WTR YR 1976 TOTAL 138803 MEAN 379 MAX 4340 MIN 74 AC-FT 275300

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.
CHEMICAL ANALYSES: Water years 1951 to current year. Published as "at Guerneville" in 1961-65.
SPECIFIC CONDUCTANCE: Water years 1974 to current year.
WATER TEMPERATURES: Water years 1964 to current year.
SEDIMENT RECORDS: Water years 1966 to current year.
TURBIDITY: Water years 1967 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1973 to current year.
WATER TEMPERATURES: January 1964 to current year.
SEDIMENT RECORDS: April to September 1967, October 1969 to current year.

INSTRUMENTATION.--Specific conductance recorder since October 1973, at site 0.7 mi (1.1 km) downstream. Temperature recorder since January 1964.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 400 micromhos July 8, 9, 1974; minimum, 57 micromhos Nov. 4, 1973.
WATER TEMPERATURES: Maximum, 29.5°C June 26, 1973; minimum (water years 1966-71, 1975-76), 4.5°C Dec. 15, 1967, Jan. 12, 1968.
SEDIMENT CONCENTRATIONS (water years 1970-76): Maximum daily mean, 2,350 mg/L Jan. 16, 1974; minimum daily mean, 3 mg/L on several days in 1972 and 1973.
SEDIMENT DISCHARGE (Water years 1970-76): Maximum daily, 316,000 tons (287,000 tonnes) Jan. 16, 1974; minimum daily, 1.3 tons (1.2 tonnes) Sept. 23, 1972, Aug. 30, 1976.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 440 micromhos Feb. 15; minimum, 145 micromhos Mar. 1.
WATER TEMPERATURES: Maximum, 27.0°C May 20; minimum, 6.5°C Jan. 2, 3.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 631 mg/L Mar. 1; minimum daily mean, 4 mg/L Dec. 30, Aug. 30.
SEDIMENT DISCHARGE: Maximum daily, 7,650 tons (6,940 tonnes) Mar. 1; minimum daily, 1.3 tons (1.2 tonnes) Aug. 30.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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)	PER-CENT SATUR-ATION
OCT									
09...	1355	312	293	238	7.8	15.5	4	9.4	94
20...A	0950	328	328	230	8.0	19.0	--	8.5	--
NOV									
06...	1200	334	337	282	7.2	14.5	6	--	--
17...A	1045	780	787	271	7.4	10.5	--	9.8	--
DEC									
08...	1220	712	710	247	7.7	10.5	20	--	--
11...A	0850	481	445	248	7.6	10.5	3	10.3	--
JAN									
08...A	1145	390	329	265	7.4	9.0	--	11.6	--
13...	1130	337	327	305	7.7	10.0	4	--	--
FEB									
03...	1200	168	170	320	7.7	12.0	10	--	--
06...A	1045	160	168	354	7.6	9.0	18	10.4	--
MAR									
03...	1105	3900	3980	209	7.4	7.5	55	--	--
04...A	1345	2840	3470	207	7.4	9.5	30	11.0	--
APR									
02...A	1030	174	175	350	7.6	13.5	--	9.7	--
06...	1130	175	156	305	7.8	15.5	3	--	--
MAY									
03...	1100	237	232	284	8.3	19.0	5	--	--
05...A	1000	205	198	305	7.4	18.5	--	9.2	--
JUN									
02...	1425	206	202	244	8.5	21.5	5	--	--
03...A	0930	186	170	260	7.8	19.0	--	9.2	--
JUL									
06...	1130	174	175	223	7.8	25.5	4	--	--
07...A	1145	174	160	238	7.8	24.5	--	9.4	--
AUG									
03...A	0930	142	133	243	7.7	21.5	9	8.4	--
04...	1300	147	148	233	8.1	23.0	7	--	--
SEP									
07...	1445	146	144	290	7.8	23.5	5	--	--

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT											
09...	1355	28	65	--	--	--	--	--	--	--	--
NOV											
06...	1200	58	23	120	2	25	13	12	18	.5	1.8
DEC											
08...	1220	120	200	--	--	--	--	--	--	--	--
11...A	0850	--	--	120	5	23	--	11	--	--	--
JAN											
13...	1130	B7	B9	120	0	26	14	14	20	.6	1.9
FEB											
03...	1200	B15	B4	--	--	--	--	--	--	--	--
06...A	1045	--	--	150	11	30	--	18	--	--	--
MAR											
03...	1105	580	560	--	--	--	--	--	--	--	--
04...A	1345	--	--	87	5	16	--	8.6	--	--	--
APR											
06...	1130	B3	28	140	2	27	18	17	20	.6	2.5
MAY											
03...	1100	B3	B4	--	--	--	--	--	--	--	--
JUN											
02...	1425	52	33	--	--	--	--	--	--	--	--
JUL											
06...	1130	48	32	110	3	23	13	8.5	14	.4	1.2
AUG											
03...A	0930	--	--	110	0	23	--	9.2	--	--	--
04...	1300	48	28	--	--	--	--	--	--	--	--
SEP											
07...	1445	B12	B10	--	--	--	--	--	--	--	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
OCT										
09...	--	--	104	--	--	--	--	--	--	--
NOV										
06...	139	0	114	14	10	.1	13	161	158	.22
DEC										
08...	--	--	--	--	--	--	--	--	--	--
11...	140	0	115	--	6.9	--	--	175	--	.24
JAN										
13...	151	0	124	15	12	.2	13	174	171	.24
FEB										
03...	--	--	--	--	--	--	--	--	--	--
06...	170	0	139	--	18	--	--	212	--	.29
MAR										
03...	--	--	--	--	--	--	--	--	--	--
04...	100	0	82	--	6.7	--	--	141	--	.19
APR										
06...	170	0	139	20	17	.1	14	206	200	.28
MAY										
03...	--	--	--	--	--	--	--	--	--	--
JUN										
02...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	132	0	108	11	4.5	.2	9.2	128	136	.17
AUG										
03...	140	0	115	--	5.9	--	--	146	--	.20
04...	--	--	--	--	--	--	--	--	--	--
SEP										
07...	--	--	--	--	--	--	--	--	--	--

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

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)
OCT										
09...	--	--	--	.04	--	--	.05	.09	.21	--
NOV										
06...	145	--	--	.26	--	--	.86	1.1	.35	--
DEC										
08...	--	--	--	.28	--	--	.97	1.3	.30	--
11...	227	--	--	--	--	--	--	--	--	--
JAN										
13...	158	--	--	.51	--	--	1.5	2.0	.42	--
FEB										
03...	--	--	--	.78	--	--	2.7	3.5	.82	--
06...	91.6	--	--	--	--	--	--	--	--	--
MAR										
03...	--	--	--	.25	--	--	1.4	1.7	.27	--
04...	1080	--	--	--	--	--	--	--	--	--
APR										
06...	97.3	--	--	.64	--	--	1.5	2.1	.75	--
MAY										
03...	--	--	--	.26	--	--	.47	.73	.15	--
JUN										
02...	--	--	--	.01	--	--	.18	.19	.06	--
JUL										
06...	60.1	--	--	.00	--	--	.29	.29	.00	--
AUG										
03...	56.0	--	--	--	--	--	--	--	--	--
04...	--	.02	.00	.02	.00	.13	.13	.15	.06	.06
SEP										
07...	--	--	--	.27	--	--	.04	.31	.20	--

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)
NOV												
06...	1200	1	0	1	10	10	0	4	2	2	<50	<50
JAN												
13...	1130	0	0	0	<10	<10	0	0	0	0	<50	<50
APR												
06...	1130	2	1	1	<10	<10	0	0	0	0	<50	<48
JUL												
06...	1130	--	--	1	0	0	0	10	10	0	0	0

DATE	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)
NOV											
06...	0	<10	<8	2	630	100	<100	<100	0	80	40
JAN											
13...	0	10	9	1	200	20	<100	<100	0	50	10
APR											
06...	2	10	9	1	300	10	100	97	3	90	20
JUL											
06...	0	1	0	1	360	10	5	5	0	30	20

DATE	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV											
06...	40	.0	.0	.0	0	0	0	10	0	10	2.3
JAN											
13...	40	.3	.0	.3	0	0	0	40	40	0	1.9
APR											
06...	70	1.5	1.5	.0	0	0	0	0	0	0	2.9
JUL											
06...	10	.3	.3	.0	0	0	0	20	20	0	3.9

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY ....GENUS .....SPECIES		COMMON NAME		COUNT (CELLS/ML)	PERCENT OF TOTAL
OCT 9	1355	CHLOROPHYTA		GREEN ALGAE			
		.CHLOROPHYCEAE					
		..CHLOROCOCCALES					
		...SCENEDESMACEAE					
		....SCENEDESMUS				240	13
		..VOLVOCALES					
		...CHLAMYDOMONADACEAE					
		....CHLAMYDOMONAS				59	3
					TOTALS	300	16
		CHRYSOPHYTA					
		.BACILLARIOPHYCEAE		DIATOMS			
		..CENTRALES		CENTRIC			
		...COSCINODISCACEAE					
		....CYCLOTELLA				40	2
		..PENNALES		PENNATE			
		...ACHNANTHACEAE					
		....ACHNANTHES				160	9
		....COCCONEIS				59	3
		....RHOICOSPHENIA				20	1
		...CYMBELLACEAE					
		....CYMBELLA				20	1
		...DIATOMACEAE					
		....DIATOMA				59	3
		...FRAGILARIACEAE					
	L	....SYNEDRA					0
		...GOMPHONEMATACEAE					
		....GOMPHONEMA				40	2
		...NAVICULACEAE		NAVICULOID			
	D	....NAVICULA				400	22
		...NITZSCHIACEAE					
	D	....NITZSCHIA				520	29
					TOTALS	1,300	72
		CYANOPHYTA		BLUE-GREEN ALGAE			
		.MYXOPHYCEAE					
		..CHROOCOCCALES		COCCOID			
		...CHROOCOCCACEAE					
		....ANACYSTIS				160	9
					TOTALS	160	9
		EUGLENOPHYTA		EUGLENOIDS			
		.EUGLENOPHYCEAE					
		..EUGLENALES					
		...EUGLENACEAE					
	L	....PHACUS					0
		TOTAL PHYTOPLANKTON				1,800	
NOV 6	1200	CHLOROPHYTA		GREEN ALGAE			
		.CHLOROPHYCEAE					
		..CHLOROCOCCALES					
		...OOCYSTACEAE					
		....SELENASTRUM				110	3
		...SCENEDESMACEAE					
	D	....SCENEDESMUS				870	20
					TOTALS	980	23
		CHRYSOPHYTA					
		.BACILLARIOPHYCEAE		DIATOMS			
		..CENTRALES		CENTRIC			
		...COSCINODISCACEAE					
		....CYCLOTELLA				110	3
		....MELOSIRA				220	5
		..PENNALES		PENNATE			
		...ACHNANTHACEAE					
		....ACHNANTHES				220	5
		....COCCONEIS				110	3
		....RHOICOSPHENIA				110	3
		...CYMBELLACEAE					
		....CYMBELLA				110	3
		...GOMPHONEMATACEAE					
		....GOMPHONEMA				330	8
		...NAVICULACEAE		NAVICULOID			
	D	....NAVICULA				980	23
		...NITZSCHIACEAE					
	D	....NITZSCHIA				1,100	25
		...SURIRELLACEAE					
		....SURIRELLA				110	3
					TOTALS	3,400	81
		TOTAL PHYTOPLANKTON				4,300	

NOTE.--Footnotes at end of table.

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY ....GENUS .....SPECIES	COMMON NAME		COUNT (CELLS/ML)	PERCENT OF TOTAL
DEC 8	1220	CHLOROPHYTA	GREEN ALGAE			
		.CHLOROPHYCEAE				
		..CHLOROCOCCALES				
		...OOCYSTACEAE				
		....KIRCHNERIELLA			67	2
		...SCENEDESMACEAE				
		....SCENEDESMUS			130	4
				TOTALS	200	6
		CHRYSOPHYTA				
		.BACILLARIOPHYCEAE	DIATOMS			
		..CENTRALES	CENTRIC			
		...COSCINODISCACEAE				
		....CYCLOTELLA			67	2
L		....MELOSIRA				0
		..PENNALES	PENNATE			
		...ACHNANTHACEAE				
		....ACHNANTHES			330	10
L		....COCCONEIS				0
L		....RHOICOSPHENIA				0
		...CYMBELLACEAE				
		....CYMBELLA			130	4
		...DIATOMACEAE				
L		....DIATOMA				0
		...FRAGILARIACEAE				
		....SYNEDRA			130	4
		...GOMPHONEMATACEAE				
		....GOMPHONEMA			67	2
		...NAVICULACEAE	NAVICULOID			
D		....NAVICULA			1,100	33
		...NITZSCHIACEAE				
D		....NITZSCHIA			1,300	39
		...SURIRELLACEAE				
L		....SURIRELLA				0
				TOTALS	3,200	94
		TOTAL PHYTOPLANKTON			3,400	
JAN 13	1130	CHLOROPHYTA	GREEN ALGAE			
		.CHLOROPHYCEAE				
		..CHLOROCOCCALES				
		...SCENEDESMACEAE				
L		....SCENEDESMUS				0
		CHRYSOPHYTA				
		.BACILLARIOPHYCEAE	DIATOMS			
		..CENTRALES	CENTRIC			
		...COSCINODISCACEAE				
		....CYCLOTELLA			66	4
		....MELOSIRA			130	7
		..PENNALES	PENNATE			
		...ACHNANTHACEAE				
		....ACHNANTHES			66	4
		....COCCONEIS			130	7
L		....RHOICOSPHENIA				0
		...CYMBELLACEAE				
L		....AMPHORA				0
		....CYMBELLA			66	4
L		....EPITHEMIA				0
L		....RHOPALODIA				0
		...DIATOMACEAE				
		....DIATOMA			200	11
		...FRAGILARIACEAE				
L		....FRAGILARIA				0
		....SYNEDRA			130	7
		...GOMPHONEMATACEAE				
L		....GOMPHONEIS				0
		....GOMPHONEMA			66	4
		...NAVICULACEAE	NAVICULOID			
D		....NAVICULA			720	39
		...NITZSCHIACEAE				
		....NITZSCHIA			260	14
		...SURIRELLACEAE				
L		....CYMATOPLEURA				0
				TOTALS	1,800	101
		TOTAL PHYTOPLANKTON			1,800	

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY ....GENUS .....SPECIES		COMMON NAME		COUNT (CELLS/ML)	PERCENT OF TOTAL
FEB							
3	1200	CHLOROPHYTA		GREEN ALGAE			
		.CHLOROPHYCEAE					
		..CHLOROCOCCALES					
		...OOCYSTACEAE					
		....ANKISTRODESMUS				88	2
		...SCENEDESMACEAE					
		....SCENEDESMUS				180	4
					TOTALS	270	6
		CHRYSOPHYTA					
		.BACILLARIOPHYCEAE		DIATOMS			
		..CENTRALES		CENTRIC			
		...COSCINODISCACEAE					
		....CYCLOTELLA				270	6
		..PENNALES		PENNATE			
		...ACHNANTHACEAE					
		....COCCONEIS				180	4
		...CYMBELLACEAE					
		....CYMBELLA				88	2
		...DIATOMACEAE					
		....DIATOMA				88	2
		...GOMPHONEMATACEAE					
		....GOMPHONEMA				180	4
		...NAVICULACEAE		NAVICULOID			
		....CALONEIS				88	2
		....NAVICULA	D			1,100	28
		...NITZSCHIACEAE					
		....NITZSCHIA	D			1,900	45
					TOTALS	3,900	93
		TOTAL PHYTOPLANKTON				4,200	
MAR							
3	1100	CHLOROPHYTA		GREEN ALGAE			
		.CHLOROPHYCEAE					
		..CHLOROCOCCALES					
		...SCENEDESMACEAE					
		....SCENEDESMUS				46	3
		..ZYGNEMATALES					
		...ZYGNEMATACEAE					
		....SPIROGYRA	L				0
					TOTALS	46	3
		CHRYSOPHYTA					
		.BACILLARIOPHYCEAE		DIATOMS			
		..CENTRALES		CENTRIC			
		...COSCINODISCACEAE					
		....MELOSIRA				230	13
		..PENNALES		PENNATE			
		...ACHNANTHACEAE					
		....COCCONEIS				230	13
		....RHOICOSPHENIA				46	3
		...CYMBELLACEAE					
		....CYMBELLA				46	3
		....EPITHEMIA				46	3
		....RHOPALODIA	L				0
		...DIATOMACEAE					
		....DIATOMA				230	13
		...FRAGILARIACEAE					
		....SYNEDRA				93	5
		...NAVICULACEAE		NAVICULOID			
		....NAVICULA	D			560	31
		...NITZSCHIACEAE					
		....NITZSCHIA				93	5
		...SURIRELLACEAE					
		....CYMATOPLEURA				46	3
		....SURIRELLA				46	3
					TOTALS	1,700	95
		CYANOPHYTA		BLUE-GREEN ALGAE			
		.MYXOPHYCEAE					
		..CHROOCOCCALES		COCCOID			
		...CHROOCOCCACEAE					
		....GOMPHOSPHAERIA				93	5
					TOTALS	93	5
		TOTAL PHYTOPLANKTON				1,800	

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY ....GENUS .....SPECIES	COMMON NAME		COUNT (CELLS/ML)	PERCENT OF TOTAL
APR 6	1120	CHLOROPHYTA	GREEN ALGAE			
		.CHLOROPHYCEAE				
		..CHLOROCOCCALES				
		...MICRACTINIACEAE				
		....MICRACTINIUM			430	10
		...OOCYSTACEAE				
		....ANKISTRODESMUS			72	2
		...SCENEDESMACEAE				
		....SCENEDESMUS			140	3
		..VOLVOCALES				
		...CHLAMYDOMONADACEAE				
		....CHLAMYDOMONAS			180	4
		...VOLVOCACEAE				
		....PANDORINA			290	7
				TOTALS	1,100	26
		CHRYSOPHYTA				
		.BACILLARIOPHYCEAE	DIATOMS			
		..CENTRALES	CENTRIC			
		...COSCINODISCACEAE				
		....CYCLOTELLA			470	11
		....MELOSIRA			110	2
		..PENNALES	PENNATE			
		...ACHNANTHACEAE				
		....ACHNANTHES			36	1
		....COCCONEIS			72	2
		...CYMBELLACEAE				
		....AMPHORA			36	1
		....CYMBELLA			72	2
		...DIATOMACEAE				
	L	....DIATOMA				0
		...FRAGILARIACEAE				
		....FRAGILARIA			510	11
		....SYNEDRA			72	2
		...GOMPHONEMATACEAE				
	L	....GOMPHONEMA				0
		...NAVICULACEAE	NAVICULOID			
	D	....NAVICULA			720	16
		...NITZSCHIACEAE				
		....NITZSCHIA			580	13
		...SURIRELLACEAE				
		....SURIRELLA			36	1
				TOTALS	2,700	62
		CYANOPHYTA	BLUE-GREEN ALGAE			
		.MYXOPHYCEAE				
		..CHROOCOCCALES	COCCOID			
		...CHROOCOCCACEAE				
		....ANACYSTIS			430	10
		....COCCOCHLORIS			140	3
				TOTALS	580	13
		EUGLENOPHYTA	EUGLENOIDS			
		.EUGLENOPHYCEAE				
		..EUGLENALES				
		...EUGLENACEAE				
		....EUGLENA			36	1
				TOTALS	36	1
		PYRRHOPHYTA	FIRE ALGAE			
		.DINOPHYCEAE	DINOFLAGELLATES			
		..PERIDINIALES				
		...GLENODINIACEAE				
	L	....GLENODINIUM				0
		TOTAL PHYTOPLANKTON			4,400	

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY ....GENUS .....SPECIES		COMMON NAME		COUNT (CELLS/ML)	PERCENT OF TOTAL
MAY							
3	1100	CHLOROPHYTA		GREEN ALGAE			
		.CHLOROPHYCEAE					
		..CHLOROCOCCALES					
		...MICRACTINIACEAE					
		....GOLENKINIA				130	2
		...OOCYSTACEAE					
		....SELENASTRUM				130	2
		...SCENEDESMACEAE					
		....SCENEDESMUS				800	12
		...OOCYSTACEAE					
		....GLOEOACTINIUM				530	8
					TOTALS	1,600	24
		CHRYSOPHYTA					
		.BACILLARIOPHYCEAE		DIATOMS			
		..CENTRALES		CENTRIC			
		...COSCINODISCACEAE					
		....CYCLOTELLA	D			1,300	20
		..PENNALES		PENNATE			
		...ACHNANTHACEAE					
		....ACHNANTHES				270	4
		...NAVICULACEAE		NAVICULOID			
		....NAVICULA				930	14
		...NITZSCHIACEAE					
		....NITZSCHIA	D			1,600	24
					TOTALS	4,100	62
		CYANOPHYTA		BLUE-GREEN ALGAE			
		.MYXOPHYCEAE					
		..CHROOCOCCALES		COCCOID			
		...CHROOCOCCACEAE					
		....ANACYSTIS	D			1,100	16
					TOTALS	1,100	16
		TOTAL PHYTOPLANKTON				6,800	
JUN							
2	1425	CHLOROPHYTA		GREEN ALGAE			
		.CHLOROPHYCEAE					
		..CHLOROCOCCALES					
		...MICRACTINIACEAE					
		....GOLENKINIA				69	1
		...OOCYSTACEAE					
		....DICTYOSPHAERIUM				280	3
		...SCENEDESMACEAE					
		....ACTINASTRUM				280	3
		....SCENEDESMUS				420	4
		....TETRASTRUM				140	1
		..VOLVOCALES					
		...CHLAMYDOMONADACEAE					
		....CHLAMYDOMONAS				69	1
		...PHACOTACEAE					
		....PTEROMONAS	L				0
					TOTALS	1,300	13
		CHRYSOPHYTA					
		.BACILLARIOPHYCEAE		DIATOMS			
		..CENTRALES		CENTRIC			
		...COSCINODISCACEAE					
		....CYCLOTELLA				1,200	13
		....MELOSIRA				760	8
		..PENNALES		PENNATE			
		...ACHNANTHACEAE					
		....ACHNANTHES				100	1
		....COCCONEIS	L				0
		....RHOICOSPHENIA	L				0
		...CYMBELLACEAE					
		....CYMBELLA				100	1
		...DIATOMACEAE					
		....DIATOMA				69	1
		...FRAGILARIACEAE					
		....FRAGILARIA	L				0
		....SYNEDRA				310	3
		...GOMPHONEMATACEAE					
		....GOMPHONEMA				69	1
		...MERIDIONACEAE					
		....MERIDION	L				0
		...NAVICULACEAE		NAVICULOID			
		....NAVICULA				1,000	11
		...NITZSCHIACEAE					
		....NITZSCHIA	D			1,900	21
		...SURIRELLACEAE					
		....SURIRELLA	L				0
					TOTALS	5,700	60

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY ....GENUS .....SPECIES	COMMON NAME		COUNT (CELLS/ML)	PERCENT OF TOTAL
JUN		CYANOPHYTA	BLUE-GREEN ALGAE			
2--Continued		.MYXOPHYCEAE				
		..CHROOCOCCALES	COCCOID			
		...CHROOCOCCACEAE				
	D	....ANACYSTIS			1,900	20
		..OSCILLATORIALES	FILAMENTOUS			
		...OSCILLATORIACEAE				
		....OSCILLATORIA			140	1
				TOTALS	2,000	21
		EUGLENOPHYTA	EUGLENOIDS			
		.CRYPTOPHYCEAE	CRYPTOMONADS			
		..CRYPTOMONIDALES				
		...CRYPTOMONODACEAE				
		....CRYPTOMONAS			310	3
				TOTALS	310	3
		.EUGLENOPHYCEAE				
		..EUGLENALES				
		...EUGLENACEAE				
	L	....TRACHELOMONAS				0
				TOTALS	35	0
		TOTAL PHYTOPLANKTON			9,400	
JUL						
6	1130	CHLOROPHYTA	GREEN ALGAE			
		.CHLOROPHYCEAE				
		..CHLOROCOCCALES				
		...OOCYSTACEAE				
		....ANKISTRODESMUS			22	1
		...SCENEDESMACEAE				
		....SCENEDESMUS			130	4
		..VOLVOCALES				
		...CHLAMYDOMONADACEAE				
		....CHLAMYDOMONAS			130	4
				TOTALS	290	9
		CHRYSOPHYTA				
		.BACILLARIOPHYCEAE	DIATOMS			
		..CENTRALES	CENTRIC			
		...COSCINODISCACEAE				
		....CYCLOTELLA			200	6
	D	....MELOSIRA			570	16
		..PENNALES	PENNATE			
		...ACHNANTHACEAE				
		....ACHNANTHES			44	1
		....COCCONEIS			22	1
		....RHOICOSPHENIA			22	1
		...CYMBELLACEAE				
		....CYMBELLA			22	1
		...DIATOMACEAE				
		....DIATOMA			22	1
		...FRAGILARIACEAE				
		....FRAGILARIA			180	5
		....SYNEDRA			220	6
		...GOMPHONEMATACEAE				
		....GOMPHONEMA			44	1
		...NAVICULACEAE	NAVICULOID			
		....NAVICULA			400	11
		....PINNULARIA			66	2
		...NITZSCHIACEAE				
		....NITZSCHIA			330	9
		...SURIRELLACEAE				
		....CYMATOPLEURA			22	1
		....SURIRELLA			22	1
				TOTALS	2,200	63
		.CHRYSOPHYCEAE	YELLOW-BROWN ALGAE			
		..CHRYSOMONADALES				
		...OCHROMONADACEAE				
	D	....OCHROMONAS			730	21
				TOTALS	730	21

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY ....GENUS .....SPECIES		COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
JUL 6--Continued		CYANOPHYTA		BLUE-GREEN ALGAE		
		.MYXOPHYCEAE				
		..CHROOCOCCALES		COCCOID		
		...CHROOCOCCACEAE				
		....ANACYSTIS			200	6
		..OSCILLATORIALES		FILAMENTOUS		
		...NOSTOCACEAE				
		....ANABAENA	L		0	0
				TOTALS	200	6
		EUGLENOPHYTA		EUGLENOIDS		
		.CRYPTOPHYCEAE		CRYPTOMONADS		
		..CRYPTOMONIDALES				
		...CRYPTOMONODACEAE				
		....CRYPTOMONAS			88	3
				TOTALS	88	3
		.EUGLENOPHYCEAE				
		..EUGLENALES				
		...EUGLENACEAE				
		....LEPOCINCLIS			22	1
				TOTALS	22	1
		TOTAL PHYTOPLANKTON			3,500	
AUG 4	1300	CHLOROPHYTA		GREEN ALGAE		
		.CHLOROPHYCEAE				
		..CHLOROCOCCALES				
		...HYDRODICTYACEAE				
		....PEDIASTRUM	L			0
		...OOCYSTACEAE				
		....ANKISTRODESMUS			16	1
		....SELENASTRUM			49	2
		...SCENEDESMACEAE				
		....SCENEDESMUS			150	7
		..VOLVOCALES				
		...CHLAMYDOMONADACEAE				
		....CHLAMYDOMONAS			110	5
				TOTALS	320	15
		CHRYSOPHYTA				
		.BACILLARIOPHYCEAE		DIATOMS		
		..CENTRALES		CENTRIC		
		...COSCINODISCACEAE				
		....CYCLOTELLA			190	9
		....MELOSIRA			16	1
		..PENNALES		PENNATE		
		...ACHNANTHACEAE				
		....COCCONEIS			16	1
		...CYMBELLACEAE				
		....AMPHORA			16	1
		....CYMBELLA			16	1
		....EPITHEMIA			16	1
		...DIATOMACEAE				
		....DIATOMA			49	2
		...FRAGILARIACEAE				
		....FRAGILARIA			32	1
		....SYNEDRA			130	6
		...GOMPHONEMATACEAE				
		....GOMPHONEMA			32	1
		...NAVICULACEAE		NAVICULOID		
		....NAVICULA			230	10
		....NEIDIUM			49	2
		....PINNULARIA			32	1
		...NITZSCHIACEAE				
		....NITZSCHIA			97	4
		...SURIRELLACEAE				
		....SURIRELLA			16	1
				TOTALS	940	42
		CYANOPHYTA		BLUE-GREEN ALGAE		
		.MYXOPHYCEAE				
		..CHROOCOCCALES		COCCOID		
		...CHROOCOCCACEAE				
		....ANACYSTIS	D		370	17
		..OSCILLATORIALES		FILAMENTOUS		
		...OSCILLATORIACEAE				
		....OSCILLATORIA	D		570	25
				TOTALS	940	42

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY ....GENUS .....SPECIES	COMMON NAME		COUNT (CELLS/ML)	PERCENT OF TOTAL
AUG 4--Continued		EUGLENOPHYTA	EUGLENOIDS			
		.CRYPTOPHYCEAE	CRYPTOMONADS			
		..CRYPTOMONIDALES				
		...CRYPTOMONODACEAE				
		....CRYPTOMONAS			32	1
				TOTALS	32	1
		TOTAL PHYTOPLANKTON			2,200	
SEP 7	1445	CHLOROPHYTA	GREEN ALGAE			
		.CHLOROPHYCEAE				
		..CHLOROCOCCALES				
		...OOCYSTACEAE				
		....ANKISTRODESMUS			56	1
		...SCENEDESMACEAE				
		....SCENEDESMUS			220	3
				TOTALS	280	4
		CHRYSOPHYTA				
		.BACILLARIOPHYCEAE	DIATOMS			
		..CENTRALES	CENTRIC			
		...COSCINODISCACEAE				
		....CYCLOTELLA			37	1
		..PENNALES	PENNATE			
		...FRAGILARIACEAE				
	L	....SYNEDRA				0
		...NAVICULACEAE	NAVICULOID			
		....NAVICULA			340	5
	L	....PINNULARIA				0
	L	....SCOLIOPLEURA				0
		...NITZSCHIACEAE				
		....NITZSCHIA			130	2
				TOTALS	560	8
		CYANOPHYTA	BLUE-GREEN ALGAE			
		.MYXOPHYCEAE				
		..OSCILLATORIALES	FILAMENTOUS			
		...OSCILLATORIACEAE				
	D	....OSCILLATORIA			6,000	88
				TOTALS	6,000	88
		EUGLENOPHYTA	EUGLENOIDS			
		.EUGLENOPHYCEAE				
		..EUGLENALES				
		...EUGLENACEAE				
	L	....TRACHELOMONAS				0
				TOTALS	19	0
		TOTAL PHYTOPLANKTON			6,900	

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
May 3	28	79	16	12	1.0	5400	Polyethylene strip

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	420	265	300	290	285	290	305	305	305	270	270	270
2	---	---	---	280	275	280	305	305	305	270	265	265
3	---	---	---	275	275	275	305	295	300	265	265	265
4	---	---	---	275	270	270	295	295	295	270	265	270
5	---	---	---	280	270	275	300	280	290	290	270	280
6	280	270	275	290	280	285	280	205	235	310	275	285
7	270	250	255	300	290	295	230	205	220	300	280	285
8	260	250	255	300	290	295	245	230	240	290	270	280
9	260	240	250	290	285	290	260	245	255	315	275	290
10	310	225	250	310	285	295	270	260	265	325	300	310
11	280	230	250	310	275	285	275	270	275	305	300	300
12	295	280	290	285	275	280	305	275	290	305	305	305
13	290	285	290	290	285	290	305	285	295	305	305	305
14	290	285	285	295	285	290	285	275	280	305	300	305
15	285	280	285	295	280	290	275	270	270	310	305	305
16	295	285	290	320	245	360	270	270	270	315	310	310
17	295	285	290	270	245	260	270	265	265	315	315	315
18	285	275	280	280	265	270	265	260	260	315	315	315
19	275	265	265	285	280	285	270	260	265	320	315	315
20	265	250	260	285	285	285	275	270	275	335	320	320
21	255	255	255	285	285	285	275	270	275	365	320	330
22	255	255	255	295	285	290	305	260	280	365	325	340
23	250	250	250	300	295	295	270	260	265	365	330	340
24	250	250	250	300	300	300	275	270	275	365	340	345
25	260	255	260	300	300	300	275	275	275	340	340	340
26	370	215	270	300	295	295	280	275	275	360	340	350
27	260	220	240	295	295	295	280	275	275	365	350	355
28	290	260	280	295	290	290	275	275	275	365	360	360
29	290	250	275	295	290	295	275	270	270	360	350	355
30	330	230	270	305	295	300	270	270	270	365	350	355
31	285	235	270	---	---	---	270	270	270	365	360	360
MONTH	420	215	268	320	245	290	305	205	273	365	265	314

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	360	360	360	175	145	160	340	325	330	305	300	305
2	370	360	365	190	155	175	400	325	360	305	295	300
3	370	365	365	195	180	190	410	360	390	305	300	305
4	365	365	365	215	195	205	390	365	380	310	300	305
5	365	360	360	220	215	215	365	355	360	325	310	320
6	370	360	365	230	220	225	375	350	365	330	320	325
7	370	370	370	240	230	235	375	330	350	335	325	330
8	370	370	370	245	240	245	365	190	235	350	335	340
9	385	370	375	250	245	250	230	190	210	370	350	360
10	375	355	365	260	250	255	260	230	245	370	360	370
11	390	380	385	270	260	265	240	220	225	370	360	365
12	385	380	385	280	270	275	225	200	210	370	350	360
13	380	380	380	280	280	280	210	220	200	370	340	355
14	390	380	385	285	280	285	230	210	220	365	350	360
15	440	350	400	290	285	290	250	230	240	380	360	370
16	365	345	355	300	290	295	260	250	255	370	340	350
17	400	370	385	320	295	305	265	260	260	340	330	335
18	370	340	355	320	300	310	275	265	270	345	340	340
19	330	310	320	320	305	315	280	275	280	340	330	335
20	310	275	290	310	305	310	320	280	290	335	330	335
21	275	260	270	315	310	310	290	290	290	330	320	315
22	270	260	265	315	315	315	300	290	295	325	315	320
23	290	270	280	320	310	315	300	300	300	320	310	315
24	305	290	300	325	310	320	300	300	300	310	290	300
25	310	305	305	330	310	320	300	300	300	295	290	295
26	310	260	290	340	320	330	305	300	300	300	290	300
27	260	150	180	330	325	325	320	300	305	300	295	300
28	170	150	160	325	325	325	310	300	305	305	300	300
29	220	170	190	330	320	325	310	305	310	300	290	295
30	---	---	---	335	325	330	310	300	305	295	290	290
31	---	---	---	330	330	330	---	---	---	300	290	295
MONTH	440	150	329	340	145	278	410	190	290	380	290	325

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	290	275	280	255	255	255	260	250	255	270	265	265
2	275	270	275	255	250	255	255	250	250	265	260	265
3	275	255	265	255	250	250	255	255	255	265	260	265
4	270	260	265	250	250	250	255	250	255	265	265	265
5	270	270	270	250	240	245	255	255	255	270	265	265
6	275	275	275	245	245	245	255	255	255	265	260	265
7	280	275	275	245	245	245	255	255	255	265	265	265
8	280	275	275	245	245	245	255	250	255	265	265	265
9	280	275	275	245	245	245	250	245	250	270	265	265
10	285	280	285	250	245	250	250	250	250	270	265	265
11	285	270	280	250	250	250	250	250	250	265	265	265
12	280	280	280	250	250	250	255	250	250	265	265	265
13	280	275	280	255	250	250	255	255	255	270	265	265
14	280	275	275	255	250	250	255	255	255	270	265	265
15	280	270	275	250	250	250	260	255	255	280	270	275
16	275	270	275	250	250	250	290	255	275	280	280	280
17	275	265	270	250	250	250	290	270	280	280	275	275
18	270	265	270	250	250	250	270	260	265	---	---	---
19	270	270	270	250	250	250	265	260	265	---	---	---
20	275	270	275	250	250	250	285	265	275	---	---	---
21	275	270	270	250	245	250	280	270	275	---	---	---
22	270	270	270	250	250	250	270	270	270	---	---	---
23	270	265	270	250	250	250	275	270	275	---	---	---
24	265	260	265	250	250	250	295	275	285	---	---	---
25	270	260	265	255	250	250	295	280	285	---	---	---
26	270	260	265	255	255	255	290	275	280	---	---	---
27	260	260	260	260	255	255	290	275	280	---	---	---
28	260	260	260	260	255	260	275	270	270	---	---	---
29	260	260	260	260	255	255	275	270	275	---	---	---
30	260	255	255	260	255	255	275	270	270	---	---	---
31	---	---	---	260	255	255	270	270	270	---	---	---
MONTH	290	255	271	260	240	251	295	245	264	---	---	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCT			NOV			DEC			JAN			FEB			MAR		
DAY	MAX		MIN	MAX		MIN	MAX		MIN	MAX		MIN	MAX		MIN	MAX		MIN
	DAILY			DAILY			DAILY			DAILY			DAILY			DAILY		
1	20.0	--	17.5	15.0	--	13.0	12.0	--	10.5	8.5	--	7.0	11.5	--	10.5	11.5	--	10.0
2	19.5	--	17.5	15.0	--	13.5	12.5	--	12.0	7.5	--	6.5	12.5	--	10.5	10.0	--	8.0
3	20.0	--	17.5	16.0	--	14.0	13.0	--	12.0	7.5	--	6.5	12.0	--	11.0	9.0	--	7.5
4	20.5	--	17.5	16.0	--	15.0	12.5	--	12.0	8.0	--	7.0	11.5	--	10.5	10.0	--	8.5
5	21.0	--	17.5	16.0	--	15.0	12.5	--	12.0	8.5	--	8.0	10.5	--	9.5	10.0	--	9.0
6	19.5	--	18.0	15.0	--	14.0	12.5	--	11.5	8.5	--	7.5	9.5	--	8.0	11.0	--	9.5
7	18.5	--	16.0	15.0	--	14.5	12.0	--	11.0	8.5	--	7.5	9.5	--	7.5	11.0	--	10.0
8	17.0	--	15.5	15.0	--	13.5	12.5	--	10.5	8.5	--	8.0	9.5	--	8.0	12.0	--	10.5
9	16.0	--	15.0	13.5	--	12.0	12.5	--	11.5	10.0	--	8.5	11.0	--	9.0	12.5	--	11.0
10	16.0	--	14.5	12.5	--	11.5	12.0	--	11.0	9.5	--	8.5	11.0	--	9.0	12.0	--	11.5
11	16.5	--	16.0	12.0	--	11.0	11.5	--	11.0	9.0	--	8.0	11.5	--	8.5	13.5	--	10.5
12	17.0	--	16.0	11.5	--	10.5	11.5	--	10.5	10.0	--	8.5	11.5	--	9.0	14.0	--	11.0
13	17.5	--	16.0	12.0	--	11.0	11.0	--	10.0	10.0	--	8.5	11.5	--	10.0	13.5	--	11.5
14	18.0	--	16.0	12.5	--	11.5	10.0	--	8.5	9.5	--	9.0	11.5	--	10.5	14.0	--	11.5
15	18.5	--	16.5	13.5	--	13.0	9.5	--	8.0	10.0	--	9.0	11.5	--	10.5	14.0	--	12.0
16	18.5	--	16.5	13.0	--	12.5	9.5	--	8.0	10.5	--	9.5	11.5	--	10.5	14.5	--	12.5
17	18.5	--	17.0	12.5	--	10.0	9.5	--	8.5	10.5	--	9.5	12.5	--	11.0	15.5	--	14.0
18	19.0	--	17.0	11.0	--	10.0	9.5	--	9.0	11.0	--	10.0	14.0	--	12.0	15.5	--	13.5
19	19.0	--	17.0	10.5	--	9.0	9.5	--	8.5	10.5	--	9.0	13.0	--	11.5	14.5	--	12.0
20	19.0	--	17.0	11.5	--	10.5	9.5	--	8.5	10.0	--	8.5	12.0	--	11.0	14.0	--	12.0
21	19.0	--	17.0	11.5	--	10.5	10.0	--	9.0	10.0	--	9.0	11.0	--	10.0	15.5	--	12.0
22	17.5	--	15.5	11.0	--	10.0	10.5	--	9.5	10.5	--	9.0	11.0	--	10.0	15.5	--	13.0
23	15.5	--	13.5	11.0	--	10.0	10.5	--	9.5	10.5	--	8.5	11.0	--	10.0	15.0	--	13.5
24	15.0	--	13.5	11.5	--	10.5	10.5	--	9.0	10.5	--	8.5	11.5	--	9.5	14.0	--	12.0
25	14.6	--	13.0	12.0	--	11.0	11.0	--	9.5	10.5	--	8.5	12.0	--	10.5	14.0	--	11.5
26	15.0	--	13.5	12.0	--	11.0	11.5	--	10.5	9.5	--	8.0	12.5	--	12.0	15.0	--	11.5
27	15.0	--	14.0	12.0	--	11.0	12.0	--	11.0	9.5	--	8.0	12.5	--	11.5	14.0	--	12.0
28	15.0	--	13.5	11.0	--	10.0	11.5	--	10.0	9.5	--	8.0	13.0	--	12.0	14.5	--	11.5
29	14.5	--	13.5	10.0	--	9.0	12.0	--	10.5	9.5	--	8.0	12.5	--	11.5	16.0	--	12.0
30	15.0	--	14.0	10.5	--	9.0	11.5	--	9.5	10.5	--	8.5	--	--	--	17.0	--	13.0
31	15.0	--	13.0	--	--	--	9.5	--	8.0	11.0	--	9.5	--	--	--	16.5	--	14.5
MONTH	21.0	--	13.0	16.0	--	9.0	13.0	--	8.0	11.0	--	6.5	14.0	--	7.5	17.0	--	7.5

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER MEAN DISCHARGE (CFS)	OCTOBER MEAN CONCENTRATION (MG/L)	OCTOBER SEDIMENT DISCHARGE (TONS/DAY)	NOVEMBER MEAN DISCHARGE (CFS)	NOVEMBER MEAN CONCENTRATION (MG/L)	NOVEMBER SEDIMENT DISCHARGE (TONS/DAY)	DECEMBER MEAN DISCHARGE (CFS)	DECEMBER MEAN CONCENTRATION (MG/L)	DECEMBER SEDIMENT DISCHARGE (TONS/DAY)
1	248	19	13	556	29	44	295	15	12
2	250	19	13	491	25	33	288	15	12
3	289	23	18	455	22	27	283	20	15
4	268	19	14	432	21	24	281	11	8.3
5	278	18	14	383	18	19	420	90	102
6	265	17	12	334	17	15	1400	290	1100
7	265	15	11	312	15	13	930	145	364
8	278	24	18	296	12	9.6	712	35	67
9	312	41	38	284	9	6.9	593	34	54
10	598	378	627	308	8	6.7	524	36	51
11	631	310	528	300	9	7.3	481	33	43
12	498	195	262	306	11	9.1	481	35	45
13	419	124	140	300	12	9.7	481	38	49
14	389	78	82	285	12	9.2	488	47	62
15	378	51	52	334	35	38	492	36	48
16	381	39	40	714	223	434	514	30	42
17	373	30	30	780	119	251	498	31	42
18	355	23	22	572	33	51	492	33	44
19	330	19	17	465	22	28	481	30	39
20	328	18	16	411	17	19	481	28	36
21	328	16	14	378	15	15	485	29	38
22	326	15	13	361	15	15	590	41	65
23	323	13	11	353	14	13	611	35	58
24	322	12	10	337	14	13	583	31	49
25	329	11	9.8	326	14	12	551	26	39
26	462	30	40	309	14	12	531	22	32
27	522	29	41	304	12	9.8	521	18	25
28	510	24	33	299	11	8.9	508	12	16
29	506	37	57	297	11	8.8	495	5	6.7
30	630	45	77	297	13	10	485	4	5.2
31	658	36	64	---	---	---	478	7	9.0
MONTH	12049	---	2336.8	11579	---	1172.0	16453	---	2578.2

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	475	7	9.0	174	13	6.1	4340	631	7650
2	468	8	10	168	12	5.4	3450	257	2340
3	461	15	19	168	15	6.8	3900	172	1810
4	445	18	22	170	16	7.3	2840	117	897
5	399	17	18	168	11	5.0	1980	76	406
6	299	14	11	160	7	3.0	1540	52	216
7	329	12	11	158	8	3.4	1220	46	152
8	390	11	12	156	5	2.1	1050	42	119
9	423	10	11	164	6	2.7	925	39	97
10	390	8	8.4	152	9	3.7	787	34	72
11	381	10	10	129	10	3.5	660	28	50
12	358	10	9.7	133	10	3.6	586	23	36
13	337	8	7.3	135	9	3.3	531	21	30
14	321	12	10	140	9	3.4	481	19	25
15	309	14	12	205	15	8.3	426	17	20
16	302	14	11	192	16	8.3	387	15	16
17	299	13	10	240	17	11	337	14	13
18	295	16	13	337	20	18	306	13	11
19	288	18	14	417	19	21	345	13	12
20	263	19	13	508	24	33	337	13	12
21	213	20	12	555	26	39	326	12	11
22	175	24	11	445	27	32	319	11	9.5
23	199	9	4.8	381	22	23	331	10	8.9
24	209	10	5.6	337	18	16	263	9	6.4
25	209	10	5.6	329	18	16	255	9	6.2
26	182	8	3.9	534	61	166	242	9	5.9
27	172	6	2.8	2340	515	3450	242	9	5.9
28	170	9	4.1	2630	393	2810	234	13	8.2
29	184	10	5.0	2930	423	3800	209	8	4.5
30	174	12	5.6	---	---	---	203	7	3.8
31	168	15	6.8	---	---	---	194	9	4.7
MONTH	9287	---	308.6	14555	---	10510.9	29246	---	14059.0

	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	188	10	5.1	261	11	7.8	209	17	9.6
2	174	11	5.2	248	12	8.0	206	15	8.3
3	150	11	4.5	237	13	8.3	186	18	9.0
4	140	10	3.8	219	15	8.9	165	20	8.9
5	140	8	3.0	205	13	7.2	161	20	8.7
6	175	11	5.2	193	11	5.7	160	20	8.6
7	268	27	33	177	10	4.8	156	20	8.4
8	2190	394	2270	171	10	4.6	154	20	8.3
9	2240	182	1190	167	11	5.0	146	21	8.3
10	1490	60	241	156	11	4.6	156	100	42
11	1990	130	698	150	12	4.9	156	110	46
12	2450	129	853	135	12	4.4	165	80	36
13	2030	82	449	120	13	4.2	167	60	27
14	1490	55	221	110	15	4.5	162	45	20
15	1130	42	128	98	13	3.4	139	25	9.4
16	908	24	59	100	11	3.0	131	16	5.7
17	761	20	41	117	12	3.8	126	18	6.1
18	668	19	34	124	12	4.0	125	21	7.1
19	585	18	28	128	13	4.5	131	19	6.7
20	415	15	17	134	14	5.1	136	17	6.2
21	455	12	15	135	16	5.8	142	15	5.8
22	437	13	15	141	17	6.5	144	14	5.4
23	415	15	17	143	18	6.9	136	13	4.8
24	395	16	17	139	17	6.4	119	13	4.2
25	383	14	14	124	16	5.4	115	12	3.7
26	366	12	12	79	16	3.4	119	11	3.5
27	312	11	9.3	74	15	3.0	133	11	4.0
28	316	10	8.5	91	17	4.2	144	12	4.7
29	300	10	8.1	131	19	6.7	146	12	4.7
30	280	11	8.3	172	22	10	154	11	4.6
31	---	---	---	195	20	11	---	---	---
MONTH	23241	---	6413.0	4674	---	176.0	4489	---	335.7

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	158	11	4.7	141	10	3.8	113	11	3.4
2	162	12	5.2	141	12	4.6	110	11	3.3
3	168	14	6.4	142	13	5.0	112	10	3.0
4	172	13	6.0	147	14	5.6	117	10	3.2
5	175	50	24	138	14	5.2	129	9	3.1
6	174	12	5.6	141	12	4.6	138	9	3.4
7	174	63	30	142	11	4.2	146	8	3.2
8	164	84	37	146	10	3.9	151	8	3.3
9	154	70	29	142	10	3.8	131	8	2.8
10	138	40	15	144	9	3.5	118	8	2.5
11	138	40	15	141	8	3.0	109	8	2.4
12	144	40	16	133	9	3.2	114	8	2.5
13	117	40	13	125	9	3.0	131	8	2.8
14	119	40	13	125	8	2.7	161	8	3.5
15	121	42	14	146	8	3.2	139	8	3.0
16	131	45	16	166	8	3.6	135	8	2.9
17	140	48	18	168	8	3.6	175	8	3.8
18	150	32	13	177	8	3.8	138	6	2.2
19	155	20	8.4	195	8	4.2	133	6	2.2
20	162	12	5.2	199	8	4.3	142	7	2.7
21	158	14	6.0	180	7	3.4	160	8	3.5
22	155	17	7.1	164	6	2.7	136	6	2.2
23	148	22	8.8	152	6	2.5	131	5	1.8
24	138	12	4.5	132	6	2.1	135	5	1.8
25	131	10	3.5	114	6	1.8	142	5	1.9
26	129	6	2.1	106	5	1.4	158	5	2.1
27	127	7	2.4	120	5	1.6	160	6	2.6
28	125	8	2.7	137	5	1.8	174	6	2.8
29	129	8	2.8	132	5	1.8	198	7	3.7
30	136	8	2.9	124	4	1.3	199	12	6.4
31	136	8	2.9	107	8	2.3	---	---	---
MONTH	4528	---	340.2	4467	---	101.5	4235	---	88.0
YEAR	138803.0		38419.9						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
OCT								
07...	1035	17.5	263	12	8.5	--	--	--
NOV								
06...	1140	--	337	17	15	--	--	--
DEC								
08...	1225	10.5	708	31	59	--	--	--
JAN								
13...	1130	10.0	327	8	7.3	--	--	--
FEB								
28...	1445	13.0	2860	396	3060	50	64	77
MAR								
01...	1700	10.0	3830	508	5250	51	65	78
03...	0950	7.5	4020	180	1950	--	--	--
05...	1830	10.0	1850	64	320	--	--	--
06...	1705	10.0	1430	52	201	--	--	--
APR								
12...	0800	--	2520	163	1110	--	--	--
13...	1015	--	2000	85	459	--	--	--
14...	1115	14.5	1490	53	213	--	--	--
JUL								
23...	1340	24.0	148	30	12	--	--	--

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
OCT							
07...	--	--	94	100	--	--	--
NOV							
06...	--	--	93	100	--	--	--
DEC							
08...	--	--	92	93	96	98	100
JAN							
13...	--	--	97	100	--	--	--
FEB							
28...	87	94	97	100	--	--	--
MAR							
01...	89	95	98	100	--	--	--
03...	--	--	84	92	100	--	--
05...	--	--	97	98	99	100	--
06...	--	--	95	98	99	100	--
APR							
12...	--	--	91	98	100	--	--
13...	--	--	96	100	--	--	--
14...	--	--	97	99	99	100	--
JUL							
23...	--	--	99	100	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
AUG								
04...	1200	23.0	5	148	1	2	3	7

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
AUG							
04...	11	17	27	43	72	91	100

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)
OCT			
02...	--	21	8
07...	--	13	3
08...	--	33	3
12...	--	167	10
13...	--	107	15
15...	--	34	6
17...	--	28	4
20...	--	62	7
28...	--	24	7
30...	--	46	2
NOV			
04...	--	20	4
06...	--	17	6
09...	--	8	3
11...	--	9	3
15...	--	31	15
18...	--	28	15
26...	--	14	3
27...	--	11	3

DATE	TIME	SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)
DEC			
03...	--	22	4
04...	--	11	3
08...	--	31	20
09...	--	38	15
10...	--	36	15
11...	--	33	15
12...	--	38	10
13...	--	36	7
14...	--	44	7
15...	--	42	5
16...	--	29	9
17...	--	32	10
18...	--	34	10
19...	--	28	9
20...	--	40	15
21...	--	30	10
22...	--	26	8
23...	--	35	15
24...	--	30	10

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)
DEC			
25...	--	25	6
29...	--	3	2
30...	--	4	2
31...	--	8	3
JAN			
01...	--	7	2
02...	--	8	3
03...	--	18	5
04...	--	18	5
05...	--	15	5
06...	--	14	5
07...	--	12	5
13...	--	8	3
13...	1130	8	4
FEB			
10...	--	10	2
12...	--	10	3
15...	--	16	4
17...	--	18	5
19...	--	18	6
20...	--	24	10
21...	--	24	10
22...	--	28	8
23...	--	20	6
26...	--	19	4
28...	--	396	200
29...	--	196	80
MAR			
01...	--	508	200
03...	0950	180	75
03...	1635	156	50
05...	--	64	20
06...	--	52	25
07...	--	44	20
08...	--	42	15
12...	--	22	8
15...	--	16	6
16...	--	15	6
20...	--	12	4
21...	--	12	3
22...	--	10	2
23...	--	9	3
27...	--	9	3
28...	--	14	3
29...	--	6	2
30...	--	8	3
APR			
02...	--	11	3
06...	--	8	3
07...	--	19	9
08...	--	316	150
09...	--	122	45
11...	1550	104	40
11...	2000	96	40
12...	0800	163	70
12...	1840	118	65
13...	1015	85	50
13...	1650	80	45
14...	1115	53	25
14...	1835	48	25
15...	1015	42	15
15...	1755	40	15
16...	--	24	10
19...	--	18	6
21...	--	12	5
24...	--	16	5
26...	--	12	4
28...	--	10	3
MAY			
03...	--	13	4
04...	--	15	4
07...	--	10	3
12...	--	12	4
14...	--	15	5
16...	--	11	5
19...	--	13	4
21...	--	16	5
23...	--	18	6
27...	1615	15	4
27...	1800	20	2
30...	--	22	3
JUN			
02...	1410	15	4
02...	1700	18	1
04...	--	20	4
07...	--	20	3
09...	--	21	5
16...	--	16	5
18...	--	21	5
22...	--	14	6
24...	--	13	4
27...	--	11	4
29...	--	12	4
JUL			
01...	--	11	5
03...	--	14	4
05...	--	79	50
06...	--	12	4
07...	--	133	25
09...	--	77	40
12...	--	40	3
14...	--	40	3
17...	--	48	2
20...	--	12	4
22...	--	19	4
24...	--	15	3
26...	--	6	2
28...	--	8	2
31...	--	8	3
AUG			
02...	--	12	4
04...	--	14	5
07...	--	11	3
08...	--	10	3
11...	--	8	3
13...	--	9	3
15...	--	8	3
17...	--	8	2
20...	--	8	3
22...	--	6	2
24...	--	6	3
26...	--	5	2
28...	--	5	2
30...	--	4	1
SEP			
01...	--	11	4
07...	--	8	3
17...	--	8	3
21...	--	8	3
23...	--	5	2
26...	--	5	2
29...	--	7	2

11467600 GARCIA RIVER NEAR POINT ARENA, CA

LOCATION.--Lat 38°55'35", long 123°37'45", in SW¼SW¼ sec.3, T.12 N., R.16 W., Mendocino County, on left bank 0.9 mi (1.4 km) downstream from North Fork, and 3.5 mi (5.6 km) northeast of town of Point Arena.

DRAINAGE AREA.--98.5 mi^2 (255.1 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1951-56, and annual maximum water years 1952-56, August 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 55.31 ft (16.858 m) above mean sea level. July 17, 1951, to Jan. 31, 1956, crest-stage only, at site 15 ft (5 m) upstream at different datum.

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

AVERAGE DISCHARGE.--14 years, 340 ft^3/s (9.629 m^3/s), 246,300 acre-ft/yr (304 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,300 ft^3/s (858 m^3/s) Jan. 16, 1974, gage height, 17.41 ft (5.307 m), from rating curve extended above 9,600 ft^3/s (272 m^3/s) on basis of slope-area measurements at gage heights 15.11 ft (4.606 m) and 16.63 ft (5.069 m); minimum daily, 8.2 ft^3/s (0.23 m^3/s) Sept. 24, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,780 ft^3/s (78.7 m^3/s) Feb. 29, gage height, 8.25 ft (2.515 m), no peak above base of 5,000 ft^3/s (142 m^3/s); minimum daily, 8.3 ft^3/s (0.24 m^3/s) Oct. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	58	20	59	33	1100	55	74	38	21	14	13
2	11	45	20	56	33	838	52	73	37	21	14	13
3	11	41	20	53	32	726	51	70	36	21	14	13
4	11	38	35	50	32	547	49	69	35	21	14	13
5	11	36	934	50	33	434	48	65	34	21	14	13
6	11	33	532	49	32	351	54	63	34	20	13	13
7	11	34	271	47	31	287	315	62	34	20	13	13
8	11	36	182	47	30	243	707	59	34	20	13	12
9	32	33	137	63	30	210	411	57	34	20	13	12
10	108	38	113	63	30	182	728	56	32	20	13	12
11	36	40	99	56	29	161	697	55	32	19	13	12
12	22	38	111	53	29	140	670	53	31	19	13	12
13	15	34	101	51	31	127	497	52	31	18	13	12
14	12	33	90	49	38	118	374	51	30	18	17	12
15	11	309	82	47	57	112	291	49	29	17	32	12
16	10	179	77	46	114	105	236	48	29	17	25	12
17	9.6	84	74	45	122	98	202	47	28	16	23	12
18	9.2	61	70	43	99	97	184	47	27	16	37	12
19	9.0	49	67	42	141	94	167	46	26	16	43	12
20	8.6	45	64	41	143	81	149	44	26	16	31	12
21	8.6	40	67	40	107	75	139	44	26	15	24	12
22	8.6	34	163	39	83	72	129	43	26	15	20	12
23	8.6	31	125	38	71	70	120	42	26	15	19	12
24	8.3	30	104	38	63	105	109	41	25	15	18	12
25	13	28	92	37	178	71	103	40	24	15	17	11
26	198	26	85	36	694	66	98	40	24	15	17	11
27	79	25	79	35	1020	63	95	39	23	15	16	11
28	54	23	73	35	689	62	89	39	23	14	15	13
29	45	21	68	34	1390	59	85	38	22	14	15	13
30	166	20	65	34	---	56	80	38	22	14	15	13
31	81	---	62	33	---	57	---	38	---	14	14	---
TOTAL	1040.5	1542	4082	1409	5414	6807	6984	1582	878	538	572	367
MEAN	33.6	51.4	132	45.5	187	220	233	51.0	29.3	17.4	18.5	12.2
MAX	198	309	934	63	1390	1100	728	74	38	21	43	13
MIN	8.3	20	20	33	29	56	48	38	22	14	13	11
AC-FT	2060	3060	8100	2790	10740	13500	13850	3140	1740	1070	1130	728

CAL YR 1975 TOTAL 121765.5 MEAN 334 MAX 8580 MIN 8.3 AC-FT 241500
WTR YR 1976 TOTAL 31215.5 MEAN 85.3 MAX 1390 MIN 8.3 AC-FT 61920

11467600 GARCIA RIVER NEAR POINT ARENA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1963 to current year.
INSTRUMENTATION.--Temperature recorder since October 1963.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1964-76), 22.0°C June 22, 1964, Aug. 29, 1968, June 25, 1973, Aug. 1, 1975, July 8, 1976; minimum, 5.0°C Dec. 14-16, 1967, Dec. 11, 1972.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 22.0°C July 8; minimum, 7.0°C Dec. 15, 16, Jan. 1, 2.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

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

11468000 NAVARRO RIVER NEAR NAVARRO, CA

LOCATION.--Lat 39°10'20", long 123°40'06", in SE¼ sec.7, T.15 N., R.16 W., Mendocino County, on right bank 2.9 mi (4.7 km) downstream from North Fork, 5.2 mi (8.4 km) upstream from mouth, and 6.8 mi (10.9 km) west of Navarro.

DRAINAGE AREA.--303 mi^2 (785 km^2).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1445: 1954(M). WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4.79 ft (1.460 m) above mean sea level. Prior to Oct. 1, 1969, at site 0.2 mi (0.3 km) upstream at datum 1.86 ft (0.567 m) higher.

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

AVERAGE DISCHARGE.--26 years, 531 ft^3/s (15.04 m^3/s), 384,700 acre-ft/yr (474 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,500 ft^3/s (1,830 m^3/s) Dec. 22, 1955, gage height, 40.60 ft (12.375 m) site and datum then in use, from rating curve extended above 19,000 ft^3/s (538 m^3/s) on basis of slope-area measurement of maximum flow; minimum daily, 3.1 ft^3/s (0.088 m^3/s) July 30 to Aug. 2, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1937 reached a stage of 38.2 ft (11.64 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,790 ft^3/s (79.0 m^3/s) Mar. 1, gage height, 7.85 ft (2.393 m); minimum daily, 3.1 ft^3/s (0.088 m^3/s) July 30 to Aug. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	104	42	63	39	1730	71	93	25	8.0	3.1	5.8
2	7.3	74	47	60	39	1320	64	88	24	7.8	3.1	5.6
3	6.5	58	43	58	39	1230	55	83	22	7.6	3.2	5.1
4	6.5	49	165	56	39	924	54	82	21	7.4	3.3	5.0
5	6.5	43	780	56	39	691	54	77	21	7.2	3.4	4.3
6	7.3	42	450	54	40	540	55	74	19	7.0	3.5	4.2
7	11	48	230	52	39	445	121	71	18	6.6	3.5	4.2
8	11	60	175	53	37	383	1030	67	17	6.3	3.5	4.2
9	20	49	145	80	37	330	787	63	17	6.0	3.8	4.1
10	110	65	125	99	37	286	1160	57	16	5.8	4.7	4.1
11	89	82	110	94	36	248	1310	56	16	5.6	4.1	4.1
12	61	51	111	84	36	212	1510	54	15	5.4	3.9	4.1
13	42	45	115	77	38	185	1090	51	15	5.3	3.9	4.1
14	34	42	100	71	49	164	779	47	14	5.9	5.2	4.0
15	29	125	89	66	84	151	594	44	13	5.5	7.1	4.0
16	28	437	81	62	205	137	466	43	13	5.3	6.3	4.0
17	25	243	79	60	341	126	384	40	12	5.2	8.9	4.0
18	22	144	72	58	258	121	331	38	12	5.2	19	4.0
19	22	103	68	57	281	128	285	36	11	5.0	36	4.0
20	21	89	65	53	363	115	246	35	11	5.0	32	4.0
21	21	82	61	51	269	101	218	33	11	4.8	24	3.9
22	21	71	117	49	194	93	199	32	11	4.5	20	3.9
23	21	63	170	49	148	90	178	30	10	4.3	18	3.9
24	20	58	121	47	118	86	157	29	10	4.1	15	4.0
25	28	51	103	45	280	85	141	28	10	3.9	13	4.0
26	257	51	94	43	1400	81	125	27	9.5	3.9	12	4.3
27	209	54	87	40	1940	77	115	25	9.0	3.8	11	4.9
28	97	45	80	40	1320	75	105	24	8.8	3.6	9.5	5.6
29	64	40	75	40	1590	74	102	23	8.5	3.3	8.3	6.1
30	133	35	70	40	---	71	97	28	8.2	3.1	6.9	6.6
31	208	---	67	39	---	69	---	26	---	3.1	5.9	---
TOTAL	1645.4	2503	4137	1796	9335	10368	11883	1504	428.0	165.5	305.1	134.1
MEAN	53.1	83.4	133	57.9	322	334	396	48.5	14.3	5.34	9.84	4.47
MAX	257	437	780	99	1940	1730	1510	93	25	8.0	36	6.6
MIN	6.5	35	42	39	36	69	54	23	8.2	3.1	3.1	3.9
AC-FT	3260	4960	8210	3560	18520	20560	23570	2980	849	328	605	266

CAL YR 1975 TOTAL 214243.9 MEAN 587 MAX 11200 MIN 6.5 AC-FT 425000
WTR YR 1976 TOTAL 44204.1 MEAN 121 MAX 1940 MIN 3.1 AC-FT 87680

11468000 NAVARRO RIVER NEAR NAVARRO, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959 to current year.
CHEMICAL ANALYSES: Water years 1959-66, 1973 to current year.
WATER TEMPERATURES: Water years 1966 to current year.

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

INSTRUMENTATION.--Temperature recorder since October 1965.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1966-68, 1970-71, 1975-76), 26.5°C July 8, 1976; minimum (water years 1968, 1972, 1975-76), 3.0°C Jan. 2, 1976.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 26.5°C July 8; minimum, 3.0°C Jan. 2.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
NOV								
06...	0830	--	42	282	7.4	12.0	8	9.2
DEC								
09...	1250	145	--	248	7.4	10.0	1	10.8
JAN								
07...	0800	--	52	278	7.3	7.5	1	11.4
MAR								
04...	0815	--	985	175	7.4	7.0	30	10.9
MAY								
05...	1530	--	77	239	7.8	17.0	0	9.9
JUL								
14...	1500	--	5.9	265	7.6	22.0	1	10.6
SEP								
14...	1745	--	4.0	255	7.4	20.0	1	10.5

DATE	TIME	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
DEC											
09...	1250	99	92	12	.5	8	0	7	7.4	--	--
MAY											
05...	1530	110	12	13	.5	120	0	98	9.4	.00	.00

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL ZINC (ZN) (UG/L)
DEC										
09...	--	--	--	200	--	--	--	--	--	--
MAY										
05...	.03	.02	.06	100	0	0	70	0	30	0

11468000 NAVARRO RIVER NEAR NAVARRO, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	15.5	11.5	11.0	9.0	8.0	5.0	4.0	9.5	8.0	11.0	9.0
2	18.0	15.0	11.0	10.5	9.5	9.0	4.5	3.0	10.0	8.5	9.0	8.0
3	18.0	14.5	11.5	10.5	9.5	9.5	5.5	3.5	10.0	9.0	8.5	7.5
4	19.0	15.5	11.5	11.0	9.5	9.0	7.5	5.5	9.5	8.5	8.5	7.5
5	19.0	15.0	11.5	11.0	9.5	9.5	8.0	7.0	9.0	7.5	9.0	8.0
6	18.0	15.5	11.5	11.0	10.0	9.0	7.5	6.5	8.0	6.5	9.5	8.0
7	17.0	14.0	11.5	11.0	9.5	9.0	8.0	6.5	8.0	6.0	10.0	9.0
8	15.5	13.5	11.5	11.0	9.5	8.5	9.0	8.0	8.0	6.5	11.0	9.0
9	14.5	13.5	11.0	10.0	9.5	8.5	9.0	8.0	---	---	11.5	9.5
10	15.0	13.5	10.0	9.5	9.0	8.0	8.0	7.5	---	---	10.5	10.0
11	15.0	14.5	9.5	9.0	9.5	8.5	8.0	7.5	---	---	12.0	9.0
12	15.5	14.5	9.5	8.5	9.0	8.0	8.5	8.0	---	---	12.5	9.0
13	15.0	14.0	9.0	8.5	8.0	7.0	8.5	7.5	---	---	12.5	9.5
14	15.0	14.0	8.5	8.5	7.0	6.0	8.5	8.0	10.0	9.5	11.5	10.0
15	14.5	13.5	9.5	8.5	6.5	5.0	8.5	8.0	10.0	9.5	13.5	10.0
16	15.0	13.5	9.5	9.0	7.0	5.5	8.5	8.0	10.0	9.5	13.5	10.5
17	14.5	14.0	9.5	8.5	7.0	6.0	9.0	8.0	10.5	10.0	13.5	11.0
18	15.0	14.0	9.0	8.0	7.5	6.5	8.5	8.0	11.0	10.0	13.5	11.5
19	14.5	13.5	8.0	7.5	7.0	6.5	8.0	7.0	10.5	10.0	12.5	10.0
20	14.5	13.5	8.0	7.5	7.0	6.0	7.5	6.5	10.0	9.0	13.0	9.0
21	14.5	13.0	8.5	8.0	7.0	6.5	7.0	6.0	9.5	8.5	14.0	9.5
22	14.0	12.5	8.5	8.0	8.0	7.0	7.5	6.0	10.0	9.0	12.5	10.5
23	12.5	11.5	8.5	8.0	8.0	7.0	7.5	7.0	10.5	9.0	12.5	9.5
24	12.0	10.5	8.5	8.0	8.5	7.0	8.5	7.5	10.5	9.5	11.5	9.5
25	11.5	10.5	8.5	8.0	8.5	7.5	8.5	7.5	10.5	10.0	13.0	9.0
26	11.5	11.0	8.5	8.5	9.0	8.0	7.5	6.5	11.5	10.0	12.0	9.0
27	12.0	11.5	9.0	8.5	9.5	8.5	8.0	7.0	12.0	11.0	11.5	8.5
28	12.0	11.5	8.5	8.0	9.0	8.0	8.0	7.0	12.0	11.0	13.0	10.0
29	11.5	11.0	8.0	7.0	9.0	8.0	8.5	7.0	11.5	11.0	14.0	9.5
30	11.5	11.0	8.0	7.5	8.5	6.5	9.0	7.5	---	---	15.0	10.0
31	11.5	11.5	---	---	6.5	5.0	9.0	7.5	---	---	13.0	10.5
MONTH	19.0	10.5	11.5	7.0	10.0	5.0	9.0	3.0	12.0	6.0	15.0	7.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	9.0	17.5	14.5	20.5	15.5	23.5	18.0	22.5	19.5	20.0	17.5
2	13.0	9.0	18.0	13.5	20.5	15.0	23.5	18.0	23.5	20.5	19.5	17.5
3	12.0	9.5	18.5	13.5	21.0	15.5	23.5	18.5	22.5	21.5	20.0	18.0
4	14.5	10.0	18.5	14.5	20.5	15.5	24.5	18.5	23.5	20.5	19.5	18.0
5	13.5	11.5	19.0	14.5	18.5	16.0	25.0	20.0	22.5	21.0	20.0	17.5
6	14.5	11.5	19.0	14.0	19.0	14.5	24.5	19.0	22.5	20.5	20.0	18.0
7	12.5	11.0	20.5	15.0	18.5	16.0	25.5	20.0	23.0	21.0	20.0	17.5
8	12.0	10.0	20.5	16.0	20.5	15.5	26.5	21.0	23.0	20.0	20.5	18.0
9	11.5	10.0	20.0	16.0	19.5	17.0	26.0	21.5	23.0	20.5	20.5	18.5
10	11.5	10.5	20.0	16.0	18.5	16.5	24.5	20.0	23.0	21.0	20.5	18.5
11	10.5	9.0	21.5	16.0	20.0	15.5	23.5	20.0	22.0	20.5	18.5	18.0
12	10.0	9.0	22.5	16.5	19.5	17.0	25.0	20.0	22.5	20.0	18.5	16.5
13	12.0	9.5	22.5	17.5	21.5	16.0	23.5	19.5	22.0	20.0	19.0	17.5
14	13.0	10.5	21.5	16.5	22.5	17.0	23.0	17.5	20.0	19.5	19.0	17.5
15	12.5	11.0	21.5	16.0	23.5	18.0	23.0	18.0	20.5	19.0	18.5	17.0
16	12.5	9.5	19.0	16.5	24.0	19.0	23.0	18.5	21.0	19.0	18.5	17.5
17	12.5	10.0	20.0	14.0	23.5	19.0	22.0	19.0	21.0	19.0	18.5	17.0
18	14.5	11.0	19.5	14.0	23.0	19.0	22.0	18.0	19.0	18.0	18.5	17.0
19	15.5	11.5	20.0	14.5	21.5	19.0	23.5	18.0	20.5	17.5	18.5	17.0
20	16.5	12.5	20.5	14.5	19.5	17.5	23.5	18.0	21.5	19.0	18.5	17.0
21	15.0	13.0	21.0	15.0	21.5	16.5	23.0	17.5	21.0	20.0	18.5	17.5
22	14.0	12.5	21.0	15.5	22.5	17.0	23.5	18.0	21.0	19.5	19.0	17.5
23	16.5	12.5	21.0	15.0	23.5	17.5	24.5	19.0	20.5	18.0	18.5	17.0
24	16.5	13.0	21.0	16.0	25.0	19.0	24.0	19.5	21.0	18.5	18.0	16.5
25	16.5	11.5	22.0	16.5	25.0	20.0	23.0	20.0	21.5	19.0	18.0	17.0
26	16.5	11.5	22.0	16.0	24.5	18.5	23.0	19.5	20.5	18.0	17.5	16.5
27	17.0	11.5	20.5	17.0	25.0	18.5	23.0	20.0	20.5	18.0	17.5	16.5
28	16.5	12.5	21.0	15.0	25.0	19.5	22.0	20.0	20.5	18.0	17.5	16.5
29	17.0	12.0	18.5	14.5	24.5	19.5	23.0	19.5	20.5	18.0	18.5	17.0
30	18.0	13.0	20.0	16.0	23.5	19.0	22.0	20.5	20.0	17.5	19.0	17.5
31	---	---	22.0	16.5	---	---	21.0	20.0	20.0	17.5	---	---
MONTH	18.0	9.0	22.5	13.5	25.0	14.5	26.5	17.5	23.5	17.5	20.5	16.5

11468500 NOYO RIVER NEAR FORT BRAGG, CA

LOCATION.--Lat 39°25'42", long 123°44'12", in NE¼ sec.15, T.18 N., R.17 W., Mendocino County, on right bank 0.7 mi (1.1 km) downstream from South Fork, and 3.5 mi (5.6 km) east of Fort Bragg.

DRAINAGE AREA.--106 mi^2 (275 km^2).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 11.73 ft (3.575 m) above mean sea level.

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

AVERAGE DISCHARGE.--25 years, 224 ft^3/s (6.344 m^3/s), 162,300 acre-ft/yr (200 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,600 ft^3/s (753 m^3/s) Mar. 29, 1974, gage height, 27.14 ft (8.272 m), from rating curve extended above 4,500 ft^3/s (127 m^3/s) on basis of slope-conveyance study; minimum daily, 0.80 ft^3/s (0.023 m^3/s) Sept. 12, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,510 ft^3/s (99.4 m^3/s) Feb. 26 (1730 hrs), gage height, 11.81 ft (3.600 m), peak above base of 2,400 ft^3/s (68 m^3/s); minimum daily, 4.1 ft^3/s (0.12 m^3/s) Sept. 24-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	39	30	38	27	1470	62	50	23	10	5.0	5.4
2	5.5	29	32	36	27	865	57	49	22	10	5.4	5.4
3	5.4	23	30	34	26	638	55	50	22	10	5.9	5.0
4	5.5	19	123	34	26	478	53	47	22	10	5.9	5.0
5	9.1	18	782	36	27	366	51	45	21	10	5.9	5.0
6	5.0	17	510	36	26	290	55	44	21	9.4	6.4	5.0
7	5.9	28	258	34	25	237	79	42	21	9.4	5.9	5.0
8	5.5	34	171	48	24	202	187	40	21	9.4	5.9	4.9
9	19	29	127	158	23	175	171	38	21	8.9	5.4	4.8
10	37	41	101	141	23	153	272	37	20	8.9	5.4	4.8
11	24	47	83	117	22	137	393	36	20	8.9	5.0	4.8
12	20	38	85	102	21	122	488	35	19	8.3	5.0	4.7
13	13	32	73	86	28	111	405	33	19	7.8	5.0	4.7
14	11	27	62	74	58	102	308	32	17	7.8	7.3	4.6
15	9.2	215	55	66	158	99	242	31	17	7.3	12	4.6
16	8.4	237	51	59	343	93	192	30	17	7.3	12	4.5
17	8.1	125	49	54	402	87	161	29	15	8.3	11	4.5
18	8.5	82	45	51	390	90	141	29	15	7.8	25	4.4
19	8.0	60	44	47	423	90	122	29	14	7.8	24	4.3
20	7.5	54	41	44	374	79	109	28	14	7.3	16	4.3
21	7.5	43	44	40	269	75	101	27	15	6.8	11	4.3
22	7.4	36	62	38	194	72	95	26	15	6.8	10	4.2
23	7.0	32	59	36	148	71	90	26	14	6.4	8.9	4.2
24	7.0	29	53	35	119	72	81	25	13	5.9	8.9	4.1
25	43	26	51	34	519	75	73	25	13	6.4	7.8	4.1
26	202	26	50	32	2400	70	70	25	12	5.9	7.3	4.1
27	79	27	49	31	2010	67	67	24	11	5.9	6.8	4.3
28	42	25	45	30	1280	65	64	23	11	5.4	6.8	4.4
29	30	22	43	30	1740	61	60	22	11	5.0	6.4	4.8
30	68	21	41	29	---	59	56	23	10	4.6	5.9	5.2
31	58	---	40	28	---	64	---	25	---	5.0	5.9	---
TOTAL	772.1	1481	3289	1658	11152	6635	4360	1025	506	238.7	265.1	139.4
MEAN	24.9	49.4	106	53.5	385	214	145	33.1	16.9	7.70	8.55	4.65
MAX	202	237	782	158	2400	1470	488	50	23	10	25	5.4
MIN	5.0	17	30	28	21	59	51	22	10	4.6	5.0	4.1
AC-FT	1530	2940	6520	3290	22120	13160	8650	2030	1000	473	526	276

CAL YR 1975 TOTAL 94337.3 MEAN 258 MAX 5790 MIN 5.0 AC-FT 187100
WTR YR 1976 TOTAL 31521.3 MEAN 86.1 MAX 2400 MIN 4.1 AC-FT 62520

11468500 NOYO RIVER NEAR FORT BRAGG, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959 to current year.
CHEMICAL ANALYSES: Water years 1959-66.
WATER TEMPERATURES: Water years 1966 to current year.

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

INSTRUMENTATION.--Temperature recorder since December 1965.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 24.5°C July 14, 22, 23, 1976; minimum (water years 1966-69, 1971-74, 1976), 2.0°C Dec. 17-21, 1965.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 24.5°C July 14, 22, 23; minimum, 3.5°C Jan. 2.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

11468500 NOYO RIVER NEAR FORT BRAGG, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	6.5	15.0	12.0	17.0	12.5	21.0	16.0	20.5	16.0	20.0	15.5
2	11.0	6.0	16.0	10.5	18.0	12.5	21.5	15.5	21.0	16.5	20.5	14.5
3	10.5	8.0	16.5	11.5	16.5	12.5	21.0	16.0	19.0	17.5	21.0	14.5
4	12.0	8.0	16.0	12.0	16.5	11.5	22.5	17.0	21.5	17.0	21.0	15.0
5	11.0	10.0	16.5	12.0	14.5	12.0	20.5	18.5	18.5	16.0	20.5	15.0
6	12.5	10.0	17.0	11.0	16.0	11.5	22.0	15.5	20.0	16.0	20.5	15.0
7	11.5	10.0	18.0	12.0	15.0	13.5	22.5	18.5	21.0	16.5	21.0	14.0
8	12.0	10.0	18.0	13.5	17.0	13.0	23.0	20.0	21.5	15.0	22.0	14.5
9	11.0	9.0	17.5	14.0	17.5	15.0	23.0	20.0	22.0	15.0	22.0	15.0
10	10.5	9.5	17.5	14.0	16.0	14.5	22.5	17.0	21.5	16.5	18.0	15.0
11	9.5	9.0	19.0	13.5	17.0	13.5	21.5	17.5	20.0	16.5	17.0	15.5
12	10.0	8.5	20.0	13.0	16.5	15.0	23.5	19.5	20.0	16.0	19.5	15.0
13	11.5	9.0	---	---	18.0	13.0	24.0	17.0	17.5	15.5	19.5	15.0
14	12.0	9.5	---	---	19.0	13.0	24.5	17.0	17.0	15.0	19.5	14.0
15	12.0	9.0	---	---	19.0	14.5	24.0	18.0	19.0	15.0	19.0	14.0
16	11.5	8.5	---	---	19.5	15.5	21.0	18.5	20.0	15.5	17.0	15.0
17	11.0	8.0	---	---	20.0	15.0	20.5	18.0	16.5	15.5	18.0	14.5
18	13.0	9.0	---	---	18.5	16.5	22.0	17.5	16.5	15.0	18.0	14.0
19	13.5	9.0	---	---	17.5	16.0	22.5	17.5	20.0	15.5	17.0	15.0
20	14.0	10.0	18.0	12.5	16.5	15.0	22.5	16.5	22.0	17.0	19.0	15.5
21	13.0	10.0	18.5	12.0	18.0	14.5	22.5	16.0	21.5	18.0	18.0	16.5
22	12.5	11.0	18.0	13.0	18.5	13.5	24.5	16.0	19.5	17.0	19.5	16.0
23	14.0	11.0	17.5	12.5	20.0	14.5	24.5	17.5	21.0	16.0	19.0	15.0
24	14.0	10.5	18.5	14.5	22.0	15.5	23.5	17.5	22.0	16.5	18.0	14.0
25	14.0	10.0	19.0	15.0	21.5	16.5	24.0	17.5	21.5	17.0	18.0	15.0
26	14.0	8.5	18.5	13.5	21.5	14.0	24.0	17.0	21.0	14.5	18.5	14.5
27	14.0	8.5	18.5	15.0	22.5	14.5	23.5	17.0	21.5	14.0	17.5	16.0
28	13.5	10.0	18.0	13.5	22.5	16.5	23.0	16.5	22.0	15.5	18.5	15.5
29	15.0	9.5	16.0	11.5	21.5	17.0	21.0	17.0	21.5	15.0	20.0	15.0
30	15.5	10.0	17.5	14.0	20.0	17.5	18.5	16.5	22.0	14.5	20.0	16.0
31	---	---	17.5	15.0	---	---	17.5	16.0	20.5	15.0	---	---
MONTH	15.5	6.0	---	---	22.5	11.5	24.5	15.5	22.0	14.0	22.0	14.0

11468990 HONEYDEW CREEK NEAR HONEYDEW, CA

LOCATION.--Lat 40°13'23", long 124°06'35", in NE¼SW¼ sec.7, T.3 S., R.1 E., Humboldt County, on left bank just upstream from highway bridge, 0.1 mi (0.2 km) downstream from small right-bank tributary, 1.4 mi (2.3 km) upstream from mouth, and 1.6 mi (2.6 km) south of town of Honeydew.

DRAINAGE AREA.--14.9 mi^2 (38.6 km^2).

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

GAGE.--Water-stage recorder. Altitude of gage is 400 ft (122 m), from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,920 ft^3/s (139 m^3/s) Mar. 18, 1975, gage height, 14.74 ft (4.493 m), from rating curve extended above 1,400 ft^3/s (39.6 m^3/s); minimum daily, 3.5 ft^3/s (0.099 m^3/s) Oct. 19-22, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft^3/s (57 m^3/s) and maximum(*), from rating curve extended above 1,400 ft^3/s (39.6 m^3/s):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Nov. 15	0215	2900	82.1	Unknown	
Dec. 5	1500	*3880	110	†13.74	4.188
Feb. 26	0615	2940	83.3	†12.75	3.886

Minimum daily discharge, 4.3 ft^3/s (0.12 m^3/s) Aug. 12.

† From crest-stage gage.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	84	110	62	33	446	53	41	16	8.5	4.9	4.9
2	7.2	68	180	58	32	323	50	40	15	8.5	4.9	5.1
3	7.9	60	140	57	31	248	48	38	15	8.2	4.9	5.1
4	11	54	600	55	30	207	46	37	15	8.2	4.9	5.1
5	9.6	50	1850	67	29	176	64	36	14	8.2	4.9	4.9
6	9.1	52	800	56	28	157	93	33	14	8.2	5.1	4.9
7	4.4	56	600	53	27	144	368	33	14	7.8	5.1	5.1
8	5.6	78	320	239	26	127	446	31	14	7.8	5.1	4.9
9	7.8	67	200	224	26	116	474	30	14	7.5	4.9	4.9
10	54	100	160	155	25	107	860	29	14	7.1	4.9	4.9
11	43	89	170	129	25	96	533	28	13	6.8	4.6	4.6
12	25	80	155	112	25	88	353	26	13	6.8	4.3	4.9
13	15	70	140	96	40	81	257	25	12	6.8	4.6	4.9
14	9.4	68	115	85	150	78	201	25	12	6.8	13	4.9
15	8.2	1400	105	77	108	75	169	24	11	6.8	16	4.9
16	7.7	500	98	70	280	71	142	23	11	6.5	8.9	4.9
17	8.3	290	95	67	186	67	121	22	11	6.2	12	4.9
18	11	220	85	63	155	80	108	22	11	5.9	16	4.9
19	9.5	160	80	58	186	66	96	21	10	5.9	9.3	4.9
20	8.4	165	73	56	139	59	88	20	10	5.7	7.5	4.9
21	7.6	150	152	53	110	56	81	20	10	5.7	6.5	5.1
22	7.8	115	188	51	88	64	75	19	9.7	5.7	6.5	5.1
23	7.4	105	135	50	78	57	70	19	9.3	5.7	6.2	5.1
24	6.9	94	116	48	112	119	66	20	8.9	5.7	5.9	5.1
25	120	91	99	46	1860	88	62	18	8.9	5.1	5.4	5.1
26	315	88	108	36	1610	80	58	17	8.8	5.1	5.1	4.9
27	150	88	94	40	967	71	55	17	8.7	5.1	4.9	5.1
28	105	94	83	39	867	66	51	16	8.7	4.9	5.1	6.8
29	93	96	77	37	717	60	47	16	8.6	4.9	5.1	5.9
30	240	84	71	35	---	56	43	16	8.5	4.9	5.1	5.4
31	110	---	67	34	---	63	---	17	---	4.9	5.1	---
TOTAL	1433.5	4716	7266	2308	7990	3592	5178	779	349.1	201.9	206.7	152.1
MEAN	46.2	157	234	74.5	276	116	173	25.1	11.6	6.51	6.67	5.07
MAX	315	1400	1850	239	1860	446	860	41	16	8.5	16	6.8
MIN	4.4	50	67	34	25	56	43	16	8.5	4.9	4.3	4.6
AC-FT	2840	9350	14410	4580	15850	7120	10270	1550	692	400	410	302

CAL YR 1975 TOTAL 72636.1 MEAN 199 MAX 3820 MIN 4.4 AC-FT 144100
WTR YR 1976 TOTAL 34172.3 MEAN 93.4 MAX 1860 MIN 4.3 AC-FT 67780

NOTE.--No gage-height record Oct. 7 to Dec. 18.

11469000 MATTOLE RIVER NEAR PETROLIA, CA

LOCATION.--Lat 40°18'42", long 124°15'48", in NW¼ sec.11, T.2 S., R.2 W., Humboldt County, on right bank 0.2 mi (0.3 km) upstream from Clear Creek, 1.5 mi (2.4 km) southeast of Petrolia, and 1.7 mi (2.7 km) upstream from North Fork.

DRAINAGE AREA.--240 mi^2 (622 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Octboer 1911 to December 1913, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1285: 1912-13.

GAGE.--Water-stage recorder. Altitude of gage is 40 ft (12 m), from topographic map. November 1911 to December 1913, nonrecording gages at several sites upstream within 0.3 mi (0.5 km) of present site at various datums. Dec. 11, 1950, to July 14, 1955, at site 0.3 mi (0.5 km) upstream at datum 7.48 ft (2.280 m) higher. July 15, 1955, to Oct. 26, 1967, at site 0.4 mi (0.6 km) downstream at different datum.

REMARKS.--Records good. Diversions for irrigation of about 350 acres (1.42 km^2) above station.

AVERAGE DISCHARGE.--28 years, 1,387 ft^3/s (39.28 m^3/s) 1,005,000 acre-ft/yr (1.24 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90,400 ft^3/s (2,560 m^3/s) Dec. 22, 1955, gage height, 29.60 ft (9.022 m) site and datum then in use, from rating curve extended above 26,000 ft^3/s (736 m^3/s) on basis of slope-area measurement of maximum flow; minimum observed, 20 ft^3/s (0.57 m^3/s) Sept. 1, 2, 15-30, Oct. 27-31, 1913, Sept. 14-18, 25, Oct. 10-16, 1970.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 15,000 ft^3/s (425 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Dec. 5	2000	17800	504	13.50	4.115
Feb. 26	1115	*23100	654	†15.16	4.621

Minimum daily discharge, 27 ft^3/s (0.76 m^3/s) Sept. 25-27.

† From high-water mark.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	521	1160	679	349	14000	611	417	209	78	39	34
2	31	417	1010	633	334	4320	541	400	191	76	41	33
3	31	354	855	604	330	3080	515	384	181	74	41	32
4	31	320	4600	583	316	2330	495	374	171	74	42	32
5	31	311	11500	656	306	1920	477	364	168	74	43	32
6	32	320	8700	648	297	1620	648	349	162	72	43	31
7	35	464	3820	590	284	1460	1340	344	156	70	42	31
8	35	477	2550	1440	280	1350	2360	330	153	69	42	30
9	136	395	2000	2760	276	1230	2130	330	147	69	41	30
10	483	626	1500	1560	267	1120	5880	316	144	67	39	30
11	422	521	1600	1320	255	1030	4490	306	141	65	38	29
12	171	446	1750	1210	255	940	2810	297	135	63	37	29
13	110	395	1400	1070	334	870	2040	293	130	62	38	29
14	84	489	1250	980	739	832	1620	284	120	60	48	29
15	72	8740	1080	901	1200	781	1400	284	115	58	82	29
16	65	3080	1000	832	3300	725	1210	271	110	58	101	28
17	62	1630	940	781	2250	679	1060	271	110	58	76	29
18	92	1220	870	732	1620	739	980	263	103	57	97	30
19	82	964	746	671	1720	718	885	263	103	55	92	30
20	69	964	710	626	1450	619	817	259	103	54	70	29
21	63	810	840	576	1240	576	760	251	103	54	60	29
22	63	718	1560	548	1060	604	718	247	101	49	54	29
23	62	641	1090	521	972	597	663	251	97	49	52	30
24	58	576	964	489	908	753	619	243	92	48	48	29
25	893	535	893	464	6940	878	569	243	88	48	46	27
26	2030	528	916	434	22000	718	535	231	86	45	43	27
27	718	548	964	417	17000	663	502	223	82	43	41	27
28	686	590	870	400	13000	626	477	220	80	42	39	31
29	521	515	817	390	11000	583	440	209	78	42	38	33
30	1570	562	774	369	---	541	428	209	78	42	37	31
31	796	---	732	359	---	641	---	209	---	41	36	---
TOTAL	9565	28677	59461	24243	90282	47543	38020	8935	3737	1816	1586	899
MEAN	309	956	1918	782	3113	1534	1267	288	125	58.6	51.2	30.0
MAX	2030	8740	11500	2760	22000	14000	5880	417	209	78	101	34
MIN	31	311	710	359	255	541	428	209	78	41	36	27
AC-FT	18970	56880	117900	48090	179100	94300	75410	17720	7410	3600	3150	1780

CAL YR 1975	TOTAL	645233	MEAN	1768	MAX	54600	MIN 31	AC-FT	1280000
WTR YR 1976	TOTAL	314764	MEAN	860	MAX	22000	MIN 27	AC-FT	624300

NOTE.--No gage-height record Feb. 25 to Mar. 2.

11469000 MATTOLE RIVER NEAR PETROLIA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959 to current year.
CHEMICAL ANALYSES: Water years 1959 to current year.
WATER TEMPERATURES: Water years 1966 to current year.

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

INSTRUMENTATION.--Temperature recorder since November 1965.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1967-68, 1970, 1972-75), 28.0°C July 13, 14, 1972, June 26, 1973; minimum (water years 1967-70, 1972-76), 3.0°C Jan. 9, 1969, Dec. 11, 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Minimum, 4.5°C Feb. 6.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)
FEB								
03...	1110	330	166	8.3	8.5	0	12.6	71
AUG								
03...	1415	41	244	8.0	19.5	0	12.1	--

DATE	NONCARBONATE HARDNESS (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED BORON (B) (UG/L)
FEB								
03...	6	6.8	.4	79	0	65	4.0	0
AUG								
03...	--	--	--	--	--	--	--	--

11469000 MATTOLE RIVER NEAR PETROLIA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCT MAX	OCT MIN	NOV MAX	NOV MIN	DEC MAX	DEC MIN	JAN MAX	JAN MIN	FEB MAX	FEB MIN	MAR MAX	MAR MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	20.0	-- 16.5	12.5	-- 10.5	11.0	-- 10.0	7.0	-- 6.0	10.0	-- 8.0	9.0	-- 7.5
2	18.5	-- 16.0	13.0	-- 11.0	11.0	-- 10.0	6.5	-- 5.0	10.5	-- 8.0	8.0	-- 7.0
3	20.0	-- 16.0	14.5	-- 12.0	11.0	-- 10.0	8.0	-- 6.0	10.0	-- 8.5	8.5	-- 7.0
4	21.0	-- 16.5	14.0	-- 12.0	11.0	-- 10.5	9.0	-- 8.0	8.5	-- 7.0	9.0	-- 7.5
5	20.5	-- 16.0	14.0	-- 12.0	12.0	-- 11.0	9.5	-- 8.5	7.5	-- 5.5	9.0	-- 7.0
6	19.5	-- 17.0	12.5	-- 12.0	12.0	-- 11.0	9.0	-- 8.0	7.5	-- 4.5	9.5	-- 7.5
7	19.5	-- 16.0	14.5	-- 12.0	11.5	-- 11.0	9.5	-- 8.5	7.5	-- 5.0	9.0	-- 7.5
8	17.0	-- 15.0	12.0	-- 11.0	11.5	-- 10.0	10.0	-- 9.5	7.5	-- 5.5	10.5	-- 8.5
9	15.0	-- 14.0	11.0	-- 10.0	11.0	-- 10.0	10.0	-- 9.0	9.0	-- 6.0	11.0	-- 8.5
10	15.0	-- 14.0	11.0	-- 10.0	11.0	-- 10.0	9.0	-- 8.0	8.5	-- 5.5	10.5	-- 9.5
11	16.5	-- 14.0	11.0	-- 9.0	10.0	-- 9.5	10.0	-- 9.0	8.5	-- 5.5	10.5	-- 8.0
12	17.0	-- 15.0	10.5	-- 8.5	10.0	-- 8.5	10.0	-- 9.0	10.0	-- 7.5	10.5	-- 7.5
13	17.5	-- 14.5	10.0	-- 8.5	8.5	-- 8.0	10.0	-- 9.0	10.0	-- 9.0	10.0	-- 7.5
14	16.5	-- 13.0	12.0	-- 10.0	8.5	-- 8.0	10.0	-- 9.0	9.0	-- 8.0	11.0	-- 9.0
15	17.0	-- 13.5	12.0	-- 12.0	8.5	-- 7.0	10.0	-- 9.0	8.5	-- 7.5	12.5	-- 9.5
16	17.0	-- 14.0	12.0	-- 10.0	9.0	-- 8.0	--	-- --	9.5	-- 8.5	12.5	-- 10.0
17	16.0	-- 15.0	10.0	-- 9.0	9.0	-- 8.0	--	-- --	10.0	-- 9.0	13.0	-- 10.5
18	17.0	-- 14.0	9.5	-- 9.5	9.0	-- 8.0	--	-- --	10.0	-- 8.5	12.5	-- 10.5
19	17.0	-- 13.5	9.5	-- 8.0	9.0	-- 8.0	--	-- --	9.5	-- 8.0	12.0	-- 9.0
20	17.5	-- 15.0	10.0	-- 9.0	9.0	-- 8.0	--	-- --	9.5	-- 7.5	12.5	-- 8.5
21	16.0	-- 14.0	10.0	-- 9.0	9.0	-- 8.0	--	-- --	9.5	-- 7.5	14.0	-- 10.0
22	15.0	-- 13.5	11.0	-- 9.0	10.0	-- 9.0	--	-- --	9.5	-- 8.0	13.0	-- 11.0
23	14.5	-- 11.5	11.0	-- 10.0	10.0	-- 9.0	--	-- --	9.0	-- 8.5	12.5	-- 10.0
24	14.5	-- 12.0	10.5	-- 9.0	11.0	-- 9.0	--	-- --	9.5	-- 8.0	12.5	-- 11.0
25	13.5	-- 12.5	11.0	-- 9.5	11.0	-- 10.0	--	-- --	10.0	-- 9.0	13.0	-- 9.5
26	13.5	-- 12.5	10.0	-- 9.5	11.5	-- 10.5	--	9.0 --	10.5	-- 10.0	12.0	-- 9.5
27	13.0	-- 12.0	10.0	-- 9.5	11.0	-- 10.0	9.0	-- 7.0	10.5	-- 10.0	11.5	-- 9.0
28	13.0	-- 11.0	9.5	-- 8.0	11.0	-- 10.0	8.5	-- 6.5	10.0	-- 9.5	14.0	-- 10.0
29	13.0	-- 11.0	9.0	-- 8.0	11.0	-- 10.0	9.0	-- 7.0	9.5	-- 8.5	14.0	-- 9.0
30	13.0	-- 11.5	10.0	-- 9.0	10.0	-- 8.0	9.0	-- 6.5	--	-- --	15.0	-- 11.0
31	12.5	-- 10.5	--	-- --	8.0	-- 7.0	9.5	-- 7.5	--	-- --	13.0	-- 9.0
MONTH	21.0	-- 10.5	14.5	-- 8.0	12.0	-- 7.0	--	-- --	10.5	-- 4.5	15.0	-- 7.0

DAY	APR MAX	APR MIN	MAY MAX	MAY MIN	JUN MAX	JUN MIN	JUL MAX	JUL MIN	AUG MAX	AUG MIN	SEP MAX	SEP MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	12.5	-- 8.5	16.5	-- 14.0	20.0	-- 14.0	--	-- --	--	-- --	23.5	-- 18.5
2	12.5	-- 8.5	17.0	-- 12.5	19.5	-- 14.0	--	-- --	-- 22.0	-- --	23.0	-- 17.0
3	12.0	-- 10.0	18.0	-- 13.0	20.0	-- 14.0	--	-- --	--	-- --	22.5	-- 17.5
4	14.0	-- 9.5	17.0	-- 13.5	20.0	-- 14.0	--	-- --	--	-- --	23.0	-- 18.0
5	--	-- --	16.5	-- 13.5	20.5	-- 15.5	--	-- --	--	-- --	24.0	-- 18.5
6	--	-- --	17.5	-- 12.5	18.5	-- 15.5	--	-- --	--	-- --	22.0	-- 18.0
7	11.0	-- 10.0	20.0	-- 13.5	17.5	-- 15.5	--	22.0 --	--	-- --	22.0	-- 16.5
8	11.5	-- 10.0	19.0	-- 15.0	22.0	-- 14.0	--	-- --	--	-- --	23.5	-- 17.0
9	10.5	-- 10.0	20.0	-- 15.0	19.0	-- 16.5	--	-- --	--	-- --	23.5	-- 18.0
10	10.5	-- 9.5	19.5	-- 15.5	21.5	-- 15.5	--	-- --	--	-- --	22.0	-- 18.0
11	10.0	-- 9.0	19.5	-- 14.5	20.5	-- 17.0	--	-- --	--	-- --	23.0	-- 18.5
12	11.5	-- 9.0	22.0	-- 14.5	23.0	-- 17.0	--	-- --	--	-- --	23.0	-- 18.5
13	12.0	-- 9.0	22.0	-- 16.5	22.0	-- 16.0	--	-- --	--	-- --	23.0	-- 17.5
14	13.0	-- 9.5	20.0	-- 15.0	23.0	-- 16.0	--	-- --	--	-- --	21.5	-- 19.0
15	11.5	-- 9.5	21.0	-- 14.5	23.5	-- 17.0	--	-- --	--	-- --	22.0	-- 16.0
16	12.5	-- 9.0	20.5	-- 15.5	24.5	-- 18.0	--	-- --	--	-- --	20.0	-- 18.0
17	11.5	-- 10.0	19.0	-- 13.5	24.5	-- 17.5	--	-- --	--	-- --	22.5	-- 18.0
18	13.5	-- 10.0	19.5	-- 13.5	23.5	-- 18.5	--	-- --	--	-- --	22.0	-- 17.5
19	14.5	-- 10.0	20.0	-- 14.0	23.5	-- 18.5	--	-- --	--	-- --	21.5	-- 17.5
20	16.0	-- 12.0	20.0	-- 14.0	20.0	-- 17.5	--	-- --	--	-- --	21.0	-- 19.0
21	14.0	-- 11.5	21.0	-- 14.5	22.5	-- 16.5	--	-- --	--	-- --	22.0	-- 18.5
22	--	-- --	21.0	-- 15.0	23.0	-- 16.0	--	-- --	--	-- --	22.0	-- 17.0
23	--	-- --	21.0	-- 15.0	24.0	-- 17.0	--	-- --	--	-- --	21.5	-- 17.0
24	--	-- --	20.0	-- 15.0	24.5	-- 18.0	--	-- --	--	-- --	21.0	-- 17.0
25	--	-- --	21.0	-- 15.5	--	-- --	--	-- --	-- 19.0	-- --	22.0	-- 17.5
26	15.5	-- 10.5	22.0	-- 15.0	--	-- --	--	-- --	21.5	-- 16.5	20.5	-- 17.0
27	16.5	-- 11.5	19.0	-- 14.5	--	-- --	--	-- --	23.0	-- 17.0	18.5	-- 16.5
28	17.0	-- 13.5	20.0	-- 13.5	--	-- --	--	-- --	23.0	-- 18.0	20.5	-- 16.5
29	15.5	-- 13.0	17.0	-- 14.0	--	-- --	--	-- --	24.0	-- 18.5	21.5	-- 17.0
30	18.0	-- 12.5	18.5	-- 15.0	--	-- --	--	-- --	24.0	-- 18.5	21.5	-- 17.5
31	--	-- --	19.0	-- 15.0	--	-- --	--	-- --	23.0	-- 18.5	--	-- --
MONTH	18.0	-- 8.5	22.0	-- 12.5	24.5	-- 14.0	--	-- --	--	-- --	24.0	-- 16.0

11470000 LAKE PILLSBURY NEAR POTTER VALLEY, CA

LOCATION.--Lat 39°24'30", long 122°57'30", on line between secs.14 and 23, T.18 N., R.10 W., Lake County, Mendocino National Forest, at Scott Dam near right bank of Eel River, 0.3 mi (0.5 km) downstream from Rice Fork, and 10.2 mi (16.4 km) northeast of town of Potter Valley.

DRAINAGE AREA.--289 mi^2 (749 km^2).

PERIOD OF RECORD.--October 1922 to September 1928 (daily gage heights only), October 1928 to current year. Monthend contents only for some periods, published in WSP 1315-B. Prior to October 1953, published as "at Hullville."

GAGE.--Water-stage recorder and nonrecording gage. Datum of gage is 81.7 ft (24.90 m) below mean sea level (river-profile survey). Prior to Jan. 26, 1950, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by concrete overflow type dam; storage began in December 1921. Usable capacity, 86,400 acre-ft (107 hm^3) between gage heights 1,822.4 ft (555.47 m), sill of outlet gate and 1,910.0 ft (582.17 m), top of spillway gates; dead storage, 397 acre-ft (490,000 m^3); spillway at gage height 1,900.0 ft (579.12 m). Water is released down Eel River to Van Arsdale Reservoir, from which it is diverted through tunnel to Potter Valley powerhouse; part is then used for irrigation and remainder flows into East Fork Russian River. Records given herein represent total contents.

COOPERATION.--Records furnished by Pacific Gas and Electric Co. in connection with a Federal Power Commission Project.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 95,600 acre-ft (118 hm^3) May 13, 16, 1925, gage height, 1,910.8 ft (582.41 m); maximum gage height, 1,911.84 ft (582.729 m) Dec. 22, 1964, from floodmarks; minimum contents, 10 acre-ft (12,300 m^3) Dec. 9, 10, 1931, gage height, 1,822.5 ft (555.50 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 81,900 acre-ft (101 hm^3) May 15, gage height, 1,907.77 ft (581.488 m); minimum, 9,520 acre-ft (11.7 hm^3) Feb. 12, 13, gage height, 1,851.40 ft (564.307 m).

Capacity table (gage height, in feet, and contents, in acre-feet)

1822.4	397	1840	3990	1865	19100	1890	48400
1824	534	1845	6080	1870	23500	1895	56700
1827	864	1850	8690	1875	28700	1900	65800
1830	1310	1855	11800	1880	34500	1905	75800
1835	2410	1860	15200	1885	41100	1910	86800

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46879	33713	23410	14398	9944	42740	61381	78916	80550	77676	71019	64727
2	46165	33315	22955	13878	9924	45004	61711	78872	80789	77415	70818	64595
3	45447	33171	22473	13364	9924	46420	61711	79026	81028	77267	70617	64387
4	45078	32483	22265	12863	9882	48105	62007	79502	80964	77099	70215	64179
5	44447	31881	23665	12394	9869	49154	62115	80200	80920	76930	69975	63972
6	44200	31543	24115	12043	9851	50320	62411	80404	80876	76635	69755	63765
7	43470	31095	24115	11978	9808	51120	62707	80630	80702	76423	69515	63540
8	42898	30790	24265	11800	9778	51901	64481	80898	80462	76297	69285	62930
9	43658	30110	23875	11730	9747	52903	65415	80898	80550	76086	69055	62299
10	43527	29918	23620	11620	9747	53253	66569	80724	80396	75833	68896	61685
11	43184	29727	23249	11490	9747	53843	67617	81021	80440	75600	68619	61053
12	42683	29270	22860	11360	9519	54515	68500	81352	80363	75390	68481	60293
13	42357	28610	22528	11215	9519	54821	69475	81372	80418	75242	68265	60005
14	41767	28194	22118	11060	9974	55280	70356	81618	80296	74990	68069	59825
15	41350	28440	21668	10884	10136	55878	71050	81816	80156	74906	67793	59645
16	40409	29402	21254	10718	10448	56290	71830	81750	80198	74696	67697	59181
17	39988	30168	20790	10631	10890	56756	72298	81750	80114	74486	67597	58560
18	39431	28940	20268	10397	11261	57068	72909	81530	80004	74257	67441	57939
19	38935	28610	19830	10316	12043	57522	73366	81596	79786	74049	67265	57348
20	38309	28216	19552	10284	12640	58047	74091	81574	79678	73820	67148	56739
21	37705	27828	19133	10266	13023	58275	74843	81334	79568	73552	67050	56135
22	37224	27634	18705	10240	13329	58719	75411	81268	79004	73326	66724	55553
23	36644	26992	18333	10216	13615	59145	75833	81160	78982	72974	66491	54940
24	36162	26513	17953	10192	13823	59289	76360	81160	78822	72809	66414	54362
25	35831	26054	17516	10160	16196	59645	76782	81312	78572	72619	65953	53757
26	35657	25549	17049	10116	20322	59735	77162	80768	78636	72358	65761	53219
27	35268	25119	16588	10074	29817	59915	77565	80658	78463	72136	65607	52687
28	34746	24764	16136	10048	32683	60095	77841	80724	78269	71910	65396	52099
29	34400	24115	15617	9974	39094	60293	78463	80724	78098	71706	65223	51509
30	34473	23745	15180	9968	---	60727	78721	80986	77927	71484	64917	51040
31	34213	---	14680	9962	---	60927	---	80942	---	71261	64651	---
MAX	46879	33713	24265	14398	39094	60927	78721	81816	81028	77676	71019	64727
MIN	34213	23745	14680	9962	9519	42740	61381	78872	77927	71261	64651	51040
(†)	1879.74	1870.23	1859.30	1852.13	1883.55	1897.41	1906.36	1907.38	1905.99	1902.79	1899.42	1891.65
(‡)	-14400	-10500	-9070	-4720	+29100	+21800	+17800	+2220	-3020	-6670	-6610	-13600

CAL YR 1975 ‡ +191
WTR YR 1976 ‡ +2420

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet, rounded to Geological Survey standards.

11470500 EEL RIVER BELOW SCOTT DAM, NEAR POTTER VALLEY, CA

LOCATION.--Lat 39°24'29", long 122°58'13", in SE¼ sec.15, T.18 N., R.10 W., Lake County, Mendocino National Forest, on left bank 0.4 mi (0.6 km) upstream from Soda Creek, 0.7 mi (1.1 km) downstream from Scott Dam, and 9.7 mi (15.6 km) northeast of town of Potter Valley.

DRAINAGE AREA.--290 mi^2 (751 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1922 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1929, published as South Eel River at Hullville, and October 1929 to September 1953 as "at Hullville."

REVISED RECORDS.--WSP 1315-B: 1923(M), 1938(M). WSP 1395: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 1,740 ft (530 m), from topographic map. Prior to Dec. 15, 1930, at datum 3.00 ft (0.914 m) higher.

REMARKS.--Flow regulated by Lake Pillsbury (station 11470000) 0.7 mi (1.1 km) upstream. No diversion above station.

COOPERATION.--Records collected by Pacific Gas and Electric Co., under general supervision of the Geological Survey, in connection with a Federal Power Commission Project.

AVERAGE DISCHARGE.--54 years, 551 ft^3/s (15.60 m^3/s), 399,200 acre-ft/yr (492 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,300 ft^3/s (1,590 m^3/s) Dec. 22, 1964, gage height, 24.24 ft (7.388 m) from floodmarks, from rating curve extended above 9,400 ft^3/s (266 m^3/s) on basis of computed flow over Scott Dam at gage heights 18.50 ft (5.639 m) and 21.85 ft (6.660 m); minimum daily, 0.1 ft^3/s (0.003 m^3/s) Sept. 8, 1924.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 307 ft^3/s (8.69 m^3/s) Sept. 8, gage height, 4.67 ft (1.423 m); minimum daily, 23 ft^3/s (0.65 m^3/s) Feb. 22-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	295	284	199	268	56	35	31	44	65	97	107	103
2	299	287	280	270	56	34	31	45	68	101	107	103
3	297	286	278	267	56	33	31	45	71	104	106	103
4	297	288	280	267	56	32	31	45	71	103	106	103
5	297	292	190	221	56	32	31	45	70	103	106	103
6	297	291	180	151	56	32	31	43	70	103	106	103
7	295	290	236	132	56	32	33	42	70	103	106	200
8	293	289	135	132	56	32	34	48	70	103	106	304
9	268	288	240	131	56	31	32	54	70	103	105	303
10	244	279	262	131	49	31	36	54	70	103	105	303
11	288	263	269	130	42	31	41	54	70	103	105	302
12	287	273	274	129	42	31	43	58	69	103	105	209
13	285	284	272	129	42	30	43	67	74	103	105	136
14	284	282	277	128	43	30	45	67	80	103	106	119
15	284	236	283	127	43	30	44	67	80	102	105	104
16	283	219	282	127	44	30	43	67	80	103	105	220
17	282	257	284	126	43	31	42	67	80	102	105	302
18	281	270	286	129	33	31	43	67	80	102	105	302
19	280	273	283	100	25	30	44	67	83	102	104	301
20	284	277	281	69	24	30	44	67	88	102	104	300
21	288	276	279	69	24	30	44	67	88	102	104	299
22	287	275	276	69	23	30	44	67	88	102	104	299
23	286	280	273	69	23	30	45	66	87	102	104	298
24	285	283	269	69	23	31	46	66	87	102	104	297
25	286	281	271	69	29	31	45	66	87	102	104	297
26	285	282	273	69	37	31	43	66	91	102	103	293
27	283	283	272	69	36	31	42	66	98	101	103	251
28	282	285	270	69	33	31	42	65	98	101	103	299
29	282	286	268	68	42	31	42	65	98	104	103	298
30	282	253	264	62	---	31	42	65	97	107	103	297
31	281	---	265	56	---	31	---	65	---	107	103	---
TOTAL	8847	8292	8051	3902	1204	966	1188	1837	2398	3180	3247	6951
MEAN	285	276	260	126	41.5	31.2	39.6	59.3	79.9	103	105	232
MAX	299	292	286	270	56	35	46	67	98	107	107	304
MIN	244	219	135	56	23	30	31	42	65	97	103	103
AC-FT	17550	16450	15970	7740	2390	1920	2360	3640	4760	6310	6440	13790

CAL YR 1975 TOTAL 241919 MEAN 663 MAX 11600 MIN 65 AC-FT 479800
WTR YR 1976 TOTAL 50063 MEAN 137 MAX 304 MIN 23 AC-FT 99300

11470500 EEL RIVER BELOW SCOTT DAM, NEAR POTTER VALLEY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.
WATER TEMPERATURES: Water years 1964 to current year.
SEDIMENT RECORDS: Water years 1966-67.
TURBIDITY: Water years 1966-67, 1969-71.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1963 to current year.

INSTRUMENTATION.--Temperature recorder since October 1963.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 23.0°C on several days in 1967; minimum (water years 1967-72, 1974-76), 4.5°C on several days in 1969.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 20.0°C Oct. 1, 2, 7; minimum, 6.0°C on many days during January and February.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

11470500 EEL RIVER BELOW SCOTT DAM, NEAR POTTER VALLEY, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

11471000 POTTER VALLEY POWERHOUSE TAILRACE NEAR POTTER VALLEY, CA

LOCATION.--Lat 39°21'42", long 123°07'38", in SW¼NW¼ sec.6, T.17 N., R.11 W., Mendocino County, on right bank 100 ft (30 m) downstream from powerhouse of Pacific Gas and Electric Co., 1.8 mi (2.9 km) southwest of Van Arsdale Dam, and 2.9 mi (4.7 km) northwest of town of Potter Valley.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1909 to current year. Prior to October 1922, monthly discharge only, published in WSP 1315-B. Prior to October 1931, published as Snow Mountain Water and Power Co.'s tailrace near Potter Valley.

REVISED RECORDS.--WSP 1395: 1950.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 1,020 ft (311 m), from topographic map. No gage prior to Dec. 1, 1922. Dec. 1, 1922, to Sept. 30, 1923, nonrecording gage and Oct. 1, 1923, to Apr. 12, 1950, water-stage recorder, at site 50 ft (15 m) upstream at different datum.

REMARKS.--Water is diverted from Eel River above Van Arsdale Dam. After passing through powerhouse, part of it is used for irrigation in Potter Valley and remainder flows into East Fork Russian River. Water for irrigation diverted from tailrace is included in figures of discharge.

COOPERATION.--Records collected by Pacific Gas and Electric Co., under general supervision of the Geological Survey, in connection with a Federal Power Commission Project.

AVERAGE DISCHARGE.--66 years (water years 1911-76), 203 ft^3/s (5.749 m^3/s), 147,100 acre-ft/yr (181 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD (1922 TO CURRENT YEAR).--Maximum daily discharge, 348 ft^3/s (9.86 m^3/s) Apr. 24, 1953; no flow at times in several years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	300	303	165	287	54	292	48	69	82	103	92	83
2	302	303	294	289	55	281	51	70	76	103	99	85
3	303	303	292	286	54	301	49	69	79	106	110	93
4	303	302	296	285	53	255	42	70	81	104	108	94
5	303	305	301	263	56	213	45	74	82	106	107	93
6	304	305	278	170	54	182	50	71	82	106	97	90
7	305	305	299	135	55	163	81	64	82	106	106	147
8	302	305	168	135	55	155	218	61	83	113	105	287
9	297	304	265	151	54	141	197	71	83	112	97	283
10	282	304	287	145	53	127	222	65	83	111	87	290
11	293	301	290	140	38	113	230	62	82	103	90	286
12	296	292	277	139	36	104	220	62	79	109	99	234
13	296	301	303	138	45	96	190	63	83	111	100	123
14	295	296	297	135	51	90	166	71	91	101	96	129
15	285	301	302	136	66	82	151	70	85	104	103	77
16	296	294	301	133	88	80	134	72	80	98	112	163
17	297	298	301	133	94	78	124	76	79	93	109	290
18	302	301	301	131	78	79	115	77	85	100	112	284
19	305	297	301	123	149	81	110	81	86	102	105	283
20	301	301	301	71	116	71	105	82	88	100	101	283
21	274	301	301	73	84	70	101	83	88	96	100	281
22	258	297	301	72	68	63	95	82	88	103	99	267
23	297	295	300	70	60	62	92	81	89	110	89	289
24	293	300	300	70	54	63	91	81	87	106	94	274
25	295	300	300	70	157	70	86	80	90	102	88	249
26	303	298	299	69	247	56	82	80	88	109	90	293
27	305	300	299	63	297	63	78	79	108	95	84	259
28	305	298	295	71	304	55	72	80	104	94	81	291
29	303	299	290	69	267	61	73	81	88	89	75	290
30	301	219	286	67	---	55	68	82	99	102	85	285
31	302	---	286	56	---	55	---	81	---	90	85	---
TOTAL	9203	8928	8876	4175	2842	3657	3386	2290	2580	3187	3005	6475
MEAN	297	298	286	135	98.0	118	113	73.9	86.0	103	96.9	216
MAX	305	305	303	289	304	301	230	83	108	113	112	293
MIN	258	219	165	56	36	55	42	61	76	89	75	77
AC-FT	18250	17710	17610	8280	5640	7250	6720	4540	5120	6320	5960	12840

CAL YR 1975 TOTAL 91588 MEAN 251 MAX 311 MIN 99 AC-FT 181700
WTR YR 1976 TOTAL 58604 MEAN 160 MAX 305 MIN 36 AC-FT 116200

11471000 POTTER VALLEY POWERHOUSE TAILRACE NEAR POTTER VALLEY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952 to current year.
CHEMICAL ANALYSES: Water years 1952-66. Published as "East Fork Russian River at Potter Valley" in 1952-59.
WATER TEMPERATURES: Water years 1964 to current year.
SEDIMENT RECORDS: Water years 1964-68.
TURBIDITY: Water years 1964-71.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: September 1965 to current year.
SEDIMENT RECORDS: March 1964 to May 1968.

INSTRUMENTATION.--Temperature recorder since September 1965.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES (water years 1965, 1967-76): Maximum (water years 1968-76), 25.0°C July 27-29, Aug. 1, 2, 1974; minimum, 2.5°C Feb. 2, 1975.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 23.0°C on several days during June and July; minimum, 3.0°C Feb. 7.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.5	18.5	15.0	12.5	9.5	9.0	4.5	3.5	6.5	5.5	8.0	6.0
2	21.0	19.0	15.0	13.0	9.5	8.5	4.5	3.5	7.0	5.5	6.5	4.5
3	21.0	18.5	15.0	13.0	9.0	7.5	5.5	4.5	7.0	5.5	7.0	5.0
4	20.5	18.0	15.0	13.0	9.0	8.5	6.0	5.0	7.0	5.5	7.0	5.0
5	21.0	18.0	15.0	13.5	9.5	9.0	6.0	5.5	6.5	4.5	7.0	5.0
6	20.5	18.0	14.5	13.0	9.5	9.0	6.0	4.5	5.0	3.5	7.5	5.0
7	19.0	17.0	15.0	14.0	9.5	8.0	5.5	4.5	5.5	3.0	8.0	6.0
8	18.5	17.0	14.5	13.0	9.0	8.0	6.5	5.5	6.0	4.5	8.5	7.0
9	18.0	17.0	13.0	12.0	8.5	7.5	7.0	6.5	7.0	5.5	9.5	6.5
10	18.0	17.0	13.0	12.5	8.5	7.5	6.5	5.0	7.0	5.0	10.0	7.0
11	18.0	17.0	12.5	11.0	8.5	7.5	6.0	5.5	6.5	4.5	10.5	7.5
12	18.0	16.5	12.0	10.5	9.0	8.0	6.5	6.0	7.0	5.0	10.0	7.0
13	18.0	16.0	12.0	10.0	8.0	7.0	6.0	5.5	7.5	6.5	10.0	7.0
14	18.0	16.0	12.0	11.0	7.0	5.5	6.0	5.0	7.0	6.0	10.0	7.5
15	18.0	16.0	12.0	11.5	7.0	5.5	6.0	5.0	6.5	5.5	10.5	8.0
16	18.0	16.0	11.5	10.5	7.0	5.5	6.0	5.0	6.5	6.0	11.0	8.5
17	18.0	16.0	10.5	9.5	7.0	5.5	6.0	5.0	7.5	6.5	12.0	9.5
18	18.0	16.5	10.5	9.0	6.5	5.5	5.5	4.5	9.0	7.0	12.0	9.5
19	18.0	15.5	10.5	9.0	6.5	5.5	5.5	4.5	8.5	6.5	9.5	7.5
20	18.0	16.0	10.5	10.0	6.5	5.5	5.5	4.0	7.0	5.0	10.0	7.5
21	18.0	16.0	10.5	9.0	7.0	6.0	5.5	3.5	7.0	4.5	11.0	8.0
22	17.5	15.5	10.5	9.0	7.5	6.5	5.5	4.0	7.5	6.0	11.0	9.0
23	16.0	14.0	10.5	9.0	7.0	6.5	5.5	4.5	7.5	6.5	10.5	8.0
24	16.0	13.5	10.0	8.5	7.0	6.0	5.5	4.5	7.5	5.5	10.5	8.5
25	16.0	15.0	10.0	8.5	7.0	6.0	5.5	3.5	7.5	7.0	10.5	7.5
26	15.5	15.0	10.0	9.0	7.0	6.5	5.0	3.5	8.5	7.5	10.5	8.5
27	15.0	14.0	10.0	9.0	7.5	6.5	5.0	3.5	9.5	8.5	9.5	8.0
28	15.5	14.0	9.0	7.5	7.0	5.5	5.5	3.5	9.5	8.5	11.0	8.5
29	15.0	12.5	8.5	7.5	7.0	6.0	5.5	3.5	9.5	8.0	12.5	8.5
30	15.0	14.0	9.0	8.5	6.5	5.0	6.0	4.0	---	---	13.0	10.0
31	14.5	12.5	---	---	5.0	4.0	6.5	4.5	---	---	12.5	9.5
MONTH	21.5	12.5	15.0	7.5	9.5	4.0	7.0	3.5	9.5	3.0	13.0	4.5

11471000 POTTER VALLEY POWERHOUSE TAILRACE NEAR POTTER VALLEY, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	8.0	17.0	14.0	18.5	16.5	19.5	18.0	21.0	19.0	21.0	19.0
2	11.5	9.0	17.0	14.0	19.0	17.0	20.0	18.0	21.0	19.5	21.0	19.0
3	11.5	10.0	18.0	14.0	18.5	17.0	20.5	18.0	21.0	18.5	20.5	19.0
4	12.5	9.5	17.5	15.0	19.0	17.0	21.0	18.5	20.0	17.0	20.5	18.5
5	12.5	10.5	17.5	14.5	19.5	17.5	22.0	19.5	20.0	19.0	20.5	19.0
6	11.0	9.5	17.5	15.0	20.0	18.0	22.0	20.0	20.0	19.0	20.5	19.0
7	10.5	9.0	18.5	15.0	19.0	18.0	21.5	20.0	20.5	18.0	20.0	18.5
8	9.5	8.0	19.5	16.0	19.0	16.5	22.0	20.0	21.0	19.0	19.0	15.5
9	9.5	7.5	20.0	16.5	18.5	18.0	22.5	21.0	21.0	19.0	19.0	15.5
10	9.0	8.5	19.5	17.0	18.5	17.0	22.5	20.5	21.0	19.5	19.0	15.5
11	8.5	7.5	19.5	16.0	18.0	17.0	22.5	20.5	21.5	19.5	19.5	16.5
12	10.5	7.0	20.5	16.0	19.5	17.5	22.0	19.5	21.5	19.5	19.0	16.0
13	11.5	8.0	20.5	17.5	20.5	18.5	22.5	20.0	20.5	18.0	19.0	16.5
14	12.5	8.5	20.0	18.0	21.0	19.0	23.0	20.0	18.0	16.5	19.0	17.0
15	12.0	9.5	20.0	17.5	21.0	19.0	23.0	21.0	16.5	16.0	18.5	17.5
16	11.5	8.0	19.5	17.5	22.0	20.0	23.0	21.0	16.5	15.5	18.5	16.5
17	11.0	8.5	19.0	17.5	22.5	20.0	23.0	21.0	16.5	16.0	19.5	16.0
18	13.5	9.0	18.5	16.5	23.0	21.0	23.0	21.0	16.0	15.5	19.5	16.0
19	14.5	10.0	18.0	16.5	23.0	21.0	23.0	21.0	19.5	15.5	19.5	16.0
20	15.5	11.0	18.5	16.5	22.5	20.5	22.5	20.5	21.0	18.0	19.5	17.0
21	14.0	11.5	19.0	17.5	21.5	20.0	22.0	20.0	21.0	19.5	19.5	16.5
22	14.5	11.5	19.5	18.0	21.0	19.0	22.5	20.0	21.0	19.5	19.5	17.0
23	15.0	11.5	19.0	17.5	21.5	19.0	22.5	20.5	20.5	18.0	19.5	17.0
24	15.0	12.0	19.0	17.5	21.5	20.0	22.5	20.0	21.0	18.5	20.0	17.0
25	14.5	11.0	20.0	18.0	22.0	20.5	23.0	20.5	21.0	19.0	19.5	17.5
26	14.5	11.0	20.5	19.0	22.0	20.0	23.0	21.0	20.5	18.5	19.5	17.5
27	14.5	11.0	20.5	19.5	22.0	19.5	23.0	21.5	20.0	18.0	20.0	18.0
28	14.5	11.5	19.5	18.0	22.0	19.0	23.0	21.0	20.5	18.0	20.0	18.5
29	15.5	11.5	18.5	17.0	22.0	20.0	21.5	19.5	20.5	18.5	21.0	18.5
30	16.5	13.0	18.5	17.0	20.5	19.0	22.0	20.0	20.5	18.5	21.0	18.5
31	---	---	19.0	17.5	---	---	22.0	20.0	20.5	19.0	---	---
MONTH	16.5	7.0	20.5	14.0	23.0	16.5	23.0	18.0	21.5	15.5	21.0	15.5

11471500 EEL RIVER AT VAN ARSDALE DAM, NEAR POTTER VALLEY, CA

LOCATION.--Lat 39°23'19", long 123°06'54", in NE¼ sec.30, T.18 N., R.11 W., Mendocino County, on left bank 1,000 ft (305 m) downstream from Van Arsdale Dam, and 4.6 mi (7.4 km) north of town of Potter Valley.

DRAINAGE AREA.--349 mi^2 (904 km^2).

PERIOD OF RECORD.--November 1909 to September 1922 (combined monthly discharge only, of Eel River at this station and Snow Mountain Water and Power Co.'s tailrace near Potter Valley), October 1922 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1929, published as South Eel River at Van Arsdale Dam, near Potter Valley.

REVISED RECORDS.--WSP 1315-B: 1913, 1920-23, 1925-27. WSP 1395: 1923(M), 1938.

GAGE.--Water-stage recorder. Altitude of gage is 1,400 ft (427 m), from topographic map. Nov. 18, 1909, to Mar. 3, 1927, recorder in reservoir 800 ft (244 m) upstream from Van Arsdale Dam at different datum. Oct. 1, 1927, to Feb. 28, 1937, nonrecording gage at present site and datum.

REMARKS.--Flow regulated by Lake Pillsbury (station 11470000) 11 mi (18 km) upstream. Water is diverted from Van Arsdale Reservoir through tunnel to Potter Valley powerhouse (station 11471000) after which part is used for irrigation and remainder flows into East Fork Russian River. Records given herein show only flow passing dam down Eel River.

COOPERATION.--Records collected by Pacific Gas and Electric Co., under general supervision of the Geological Survey, in connection with a Federal Power Commission Project.

AVERAGE DISCHARGE (combined flow of Eel River at Van Arsdale Dam and Potter Valley powerhouse tailrace).--67 years (water years 1910-76), 643 ft^3/s (18.21 m^3/s), 465,900 acre-ft/yr (574 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,100 ft^3/s (1,820 m^3/s) Dec. 22, 1964, gage height, 33.9 ft (10.33 m) from floodmarks; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,950 ft^3/s (55.2 m^3/s) Feb. 29, gage height, 10.58 ft (3.225 m); minimum daily, 0.66 ft^3/s (0.019 m^3/s) Oct. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	2.1	35	1.9	2.6	457	6.4	2.8	5.2	4.7	4.7	5.2
2	3.7	1.8	2.2	2.0	2.3	171	6.4	2.7	5.2	4.7	4.7	5.2
3	4.2	1.7	2.0	2.0	2.2	27	11	2.9	5.4	4.7	4.7	4.7
4	3.9	1.6	49	2.0	1.8	10	10	2.8	5.6	4.7	4.7	4.5
5	3.9	3.6	252	2.1	1.9	8.0	5.5	2.7	5.4	4.7	4.7	4.4
6	4.2	2.4	12	2.0	1.8	3.0	9.8	2.5	5.4	4.9	4.8	4.2
7	4.4	13	6.5	1.9	1.7	9.7	25	2.5	5.4	4.8	5.2	3.9
8	4.2	6.4	25	3.0	1.9	11	96	2.7	5.6	4.7	5.2	3.9
9	4.7	3.6	7.5	20	2.1	5.1	6.1	2.8	5.7	4.6	5.3	4.1
10	3.4	70	16	6.5	2.6	3.1	5.1	2.7	5.7	4.4	5.4	4.2
11	3.1	6.1	14	7.8	2.3	2.6	2.3	2.6	5.6	4.4	5.4	4.2
12	3.5	.69	54	4.9	2.3	2.3	2.0	2.2	5.4	4.4	5.4	4.2
13	3.5	4.3	9.7	3.1	2.3	2.2	2.0	3.9	5.4	4.4	5.5	4.2
14	3.3	9.5	11	4.8	4.0	2.6	2.5	3.8	5.3	4.1	6.0	4.2
15	3.7	128	15	2.8	14	2.9	2.5	4.6	5.2	3.1	6.3	4.2
16	3.9	25	12	2.7	6.7	3.4	2.6	4.9	5.2	3.0	6.1	4.2
17	3.5	4.9	8.3	2.6	2.5	2.7	2.7	4.9	5.2	3.0	5.8	4.2
18	3.1	6.9	12	2.7	1.7	3.4	2.9	4.8	5.2	3.2	5.9	4.2
19	2.3	1.9	8.6	2.7	4.0	5.2	2.9	4.9	5.1	4.0	5.4	4.2
20	1.3	7.7	4.6	2.6	1.7	8.6	2.8	4.9	4.9	4.7	5.4	4.2
21	26	2.5	11	2.9	1.8	4.8	2.9	5.1	4.9	4.3	5.4	4.2
22	51	1.8	42	2.5	2.3	2.2	3.7	5.2	4.9	4.4	5.4	4.5
23	4.2	1.9	19	2.6	2.2	2.3	2.9	5.2	4.9	4.4	5.4	4.3
24	.66	3.2	6.5	2.7	2.1	10	2.8	5.2	4.9	4.3	5.2	4.0
25	17	2.4	2.7	3.1	213	2.5	2.6	5.2	4.8	4.6	5.0	32
26	69	1.7	4.4	3.0	1140	2.6	2.8	5.2	4.7	4.7	5.0	33
27	24	1.8	2.9	5.0	778	3.0	2.7	5.2	4.7	4.7	4.8	12
28	6.3	2.1	2.0	3.6	293	2.6	2.6	5.2	4.2	4.7	4.9	3.6
29	4.8	3.5	2.0	3.0	929	2.3	2.6	5.2	4.4	4.7	5.1	1.4
30	79	83	2.0	2.9	---	2.1	2.8	5.2	4.7	4.7	5.2	1.3
31	17	---	2.0	2.7	---	2.4	---	5.2	---	4.7	5.2	---
TOTAL	370.06	405.09	652.9	114.1	3423.8	777.6	234.9	125.7	154.2	135.4	163.2	186.6
MEAN	11.9	13.5	21.1	3.68	118	25.1	7.83	4.05	5.14	4.37	5.26	6.22
MAX	79	128	252	20	1140	457	96	5.2	5.7	4.9	6.3	33
MIN	.66	.69	2.0	1.9	1.7	2.1	2.0	2.2	4.2	3.0	4.7	1.3
AC-FT	734	803	1300	226	6790	1540	466	249	306	269	324	370

CAL YR 1975 TOTAL 205264.05 MEAN 562 MAX 15900 MIN .66 AC-FT 407100
WTR YR 1976 TOTAL 6743.55 MEAN 18.4 MAX 1140 MIN .66 AC-FT 13380

11472150 EEL RIVER NEAR DOS RIOS, CA

LOCATION.--Lat 39°37'30", long 123°20'25", in SW¼SW¼ sec.32, T.21 N., R.13 W., Mendocino County, on left bank 1,100 ft (335 m) upstream from Outlet Creek, and 6.3 mi (10.1 km) south of Dos Rios.

DRAINAGE AREA.--528 mi^2 (1,368 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 1,001.28 ft (305.190 m) above mean sea level.

REMARKS.--Records good. Flow partly regulated by Lake Pillsbury (station 11470000) 40 mi (64 km) upstream and by diversion through Potter Valley powerhouse (station 11471000).

AVERAGE DISCHARGE.--10 years, 1,057 ft^3/s (29.93 m^3/s), 765,800 acre-ft/yr (944 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 65,500 ft^3/s (1,850 m^3/s) Jan. 16, 1974, gage height, 33.64 ft (10.253 m), from rating curve extended above 26,000 ft^3/s (736 m^3/s) on basis of slope-area measurement of peak flow; minimum daily, 1.8 ft^3/s (0.051 m^3/s) Oct. 7, 8, 1970.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 45.52 ft (13.874 m) from information by local resident, discharge, 100,000 ft^3/s (2,830 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,860 ft^3/s (279 m^3/s) Feb. 26, gage height, 11.92 ft (3.633 m); minimum daily, 3.2 ft^3/s (0.091 m^3/s) July 28, Sept. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	71	65	43	31	3430	121	100	30	9.6	4.2	4.2
2	5.1	47	66	41	30	2100	115	96	30	9.6	4.2	3.9
3	5.1	35	42	38	30	1450	112	92	28	10	4.2	3.9
4	5.4	29	661	37	29	1110	110	89	27	11	3.9	3.9
5	5.4	26	2630	37	29	834	110	85	27	10	4.2	3.9
6	5.4	24	1220	37	30	671	117	81	26	10	4.6	3.6
7	7.0	38	413	37	29	573	438	76	25	9.0	5.4	3.9
8	8.2	35	214	73	28	502	1570	75	24	8.5	5.4	3.9
9	14	36	161	268	27	426	796	69	24	8.5	5.0	3.6
10	32	149	117	196	25	366	1140	66	25	8.5	5.0	3.2
11	45	154	100	125	25	315	1320	63	25	8.0	4.6	3.6
12	27	75	141	106	25	268	1310	60	24	8.0	4.6	3.6
13	17	51	146	83	29	238	966	57	22	8.0	4.2	3.6
14	13	41	96	76	154	214	666	54	21	7.5	5.0	4.2
15	12	899	76	66	431	199	507	51	20	7.5	9.6	4.2
16	11	912	71	61	735	182	409	51	17	6.6	12	4.6
17	11	191	66	57	643	169	334	46	17	6.2	14	5.4
18	9.9	100	60	53	458	172	300	46	17	6.2	17	5.4
19	9.9	73	54	48	1140	196	258	46	17	6.2	13	5.4
20	9.9	65	51	46	840	169	220	43	16	6.2	12	5.8
21	9.9	58	51	42	413	154	196	42	15	5.4	9.6	5.8
22	9.0	53	174	40	261	144	185	41	14	5.4	8.5	5.8
23	32	44	169	40	193	144	169	38	14	4.2	8.0	5.8
24	30	41	112	37	154	142	154	37	14	4.6	8.0	5.8
25	27	36	89	36	2160	156	141	35	13	5.0	7.1	5.4
26	326	36	75	35	7860	137	132	34	13	5.0	6.6	5.4
27	139	34	69	35	5600	132	125	33	12	4.6	6.2	8.5
28	78	32	61	34	3150	128	121	31	11	3.2	5.8	17
29	53	31	55	33	5670	125	112	30	11	3.6	5.4	13
30	211	30	50	33	---	121	106	30	10	3.9	5.0	9.0
31	141	---	46	32	---	119	---	30	---	3.9	4.6	---
TOTAL	1314.3	3446	7401	1925	30229	15086	12360	1727	589	213.9	216.9	165.3
MEAN	42.4	115	239	62.1	1042	487	412	55.7	19.6	6.90	7.00	5.51
MAX	326	912	2630	268	7860	3430	1570	100	30	11	17	17
MIN	5.1	24	42	32	25	119	106	30	10	3.2	3.9	3.2
AC-FT	2610	6840	14680	3820	59960	29920	24520	3430	1170	424	430	328

CAL YR 1975 TOTAL 391704.7 MEAN 1073 MAX 24000 MIN 4.5 AC-FT 776900
WTR YR 1976 TOTAL 74673.4 MEAN 204 MAX 7860 MIN 3.2 AC-FT 148100

11472150 EEL RIVER NEAR DOS RIOS, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1958 to current year.
CHEMICAL ANALYSES: Water years 1958 to current year.
WATER TEMPERATURES: Water years 1967 to current year.
SEDIMENT RECORDS: Water years 1967 to current year.
TURBIDITY: Water years 1967-68.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1966 to current year.
SEDIMENT RECORDS: October 1966 to current year.

REMARKS.--During period 1958 to September 1966, chemical-quality station located at lat 39°37'36", long 123°20'36". Flow partly regulated by Lake Pillsbury and by diversion through Potter Valley powerhouse.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES (water years 1967, 1969-76): Maximum (water years 1972-76), 31.0°C July 17, 1972; minimum, 1.0°C Dec. 12, 1972.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 4,740 mg/L Jan. 16, 1974; minimum daily mean, 0 mg/L on 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.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum daily observed, 29.5°C July 6; minimum daily observed, 6.0°C Feb. 6.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,120 mg/L Feb. 26; minimum daily mean, 1 mg/L on many days.
SEDIMENT DISCHARGE: Maximum daily, 25,300 tons (23,000 tonnes) Feb. 26; minimum daily, 0.01 ton (0.01 tonne) on many days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT 08...	0825	8.2	234	8.4	14.0	1	8.0
NOV 05...	0845	26	239	8.0	12.5	7	9.4
DEC 03...	0920	42	226	8.4	8.0	1	10.9
JAN 07...	1310	37	216	8.4	7.0	1	12.1
FEB 04...	1230	29	215	8.3	9.0	1	11.9
MAR 03...	1145	1370	122	7.6	6.0	20	11.3
APR 07...	0845	121	206	7.8	10.5	0	10.1
MAY 05...	0945	87	209	8.0	15.0	0	9.6
JUN 09...	0845	24	230	8.1	18.0	0	8.4
JUL 14...	0845	7.5	251	7.8	22.0	1	7.6
AUG 04...	1255	3.9	261	8.2	23.5	1	10.4
SEP 15...	0730	4.2	265	7.8	16.0	1	8.6

DATE	TIME	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
FEB 04...	1230	110	12	9.0	.4	120	0	98	5.9	.01	--
APR 07...	0845	92	2	5.9	.3	110	0	90	4.4	.01	.00

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL ZINC (ZN) (UG/L)
FEB 04...	--	.00	.00	300	--	--	--	--	--	--
APR 07...	.03	.00	.00	200	0	0	20	0	0	20

11472150 EEL RIVER NEAR DOS RIOS, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.5	14.5	10.0	---	---	---	---	---	---	---	26.0	---
2	---	16.0	---	---	---	7.5	---	---	---	24.5	---	---
3	21.5	---	10.0	---	---	---	14.0	14.0	---	---	---	25.5
4	---	16.5	9.5	---	---	9.0	---	---	22.5	---	---	---
5	---	13.5	10.0	---	---	---	12.0	21.0	---	---	---	---
6	18.0	---	---	---	6.0	---	11.5	---	---	29.5	---	---
7	---	14.5	---	---	---	---	11.5	19.5	---	---	---	---
8	---	---	---	---	---	12.0	---	---	---	---	---	27.0
9	14.5	---	8.5	---	---	---	---	---	20.0	28.5	---	---
10	---	9.0	---	---	7.5	---	8.5	---	---	---	24.0	---
11	14.5	---	---	---	---	---	9.5	---	---	---	---	---
12	---	---	---	---	11.0	---	---	26.0	---	---	---	---
13	17.0	---	8.0	7.0	8.5	---	---	---	---	22.0	---	23.5
14	---	---	---	---	8.0	12.0	11.5	26.0	---	---	21.0	---
15	19.0	12.0	7.5	---	7.5	---	---	---	26.0	---	19.0	17.0
16	---	11.0	8.0	---	8.0	13.0	10.5	---	---	---	---	---
17	18.0	---	7.0	9.5	9.0	---	---	---	---	25.5	19.0	---
18	---	---	---	---	9.0	13.0	---	---	---	---	---	---
19	---	---	---	---	8.5	---	17.0	15.5	28.5	---	---	---
20	19.0	---	---	---	---	13.5	---	---	---	19.0	---	23.0
21	---	---	17.0	---	---	---	19.5	23.5	---	---	---	---
22	13.5	---	19.5	---	9.5	---	---	---	---	---	22.0	---
23	---	---	---	---	---	12.5	14.5	---	27.0	---	---	---
24	13.5	---	---	7.5	---	---	---	23.5	---	28.0	---	21.0
25	---	---	10.0	---	9.5	---	---	24.0	---	---	---	---
26	14.0	9.5	10.0	---	10.5	12.0	17.5	23.5	---	---	20.5	---
27	13.0	---	10.0	---	10.0	---	---	22.0	---	---	---	---
28	14.0	---	12.0	8.0	12.0	---	17.5	---	29.0	28.0	---	21.0
29	14.5	---	---	---	10.0	---	---	---	---	---	---	---
30	12.5	7.5	---	---	---	---	17.0	20.0	---	26.5	---	---
31	14.0	---	---	9.5	---	12.0	---	---	---	---	28.5	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5.1	1	.01	71	4	.77	65	3	.53
2	5.1	1	.01	47	2	.25	66	2	.36
3	5.1	2	.03	35	3	.28	42	1	.11
4	5.4	2	.03	29	3	.23	661	109	561
5	5.4	2	.03	26	2	.14	2630	150	1070
6	5.4	2	.03	24	2	.13	1220	45	148
7	7.0	1	.02	38	2	.21	413	20	22
8	8.2	1	.02	35	3	.28	214	10	5.8
9	14	3	.11	36	3	.29	161	7	3.0
10	32	10	.86	149	22	9.6	117	5	1.6
11	45	10	1.2	154	10	4.2	100	4	1.1
12	27	3	.22	75	5	1.0	141	6	2.3
13	17	1	.05	51	4	.55	146	4	1.6
14	13	2	.07	41	3	.33	96	5	1.3
15	12	2	.06	899	180	624	76	5	1.0
16	11	2	.06	912	66	163	71	5	.96
17	11	3	.09	191	15	7.7	66	5	.89
18	9.9	2	.05	100	8	2.2	60	5	.81
19	9.9	2	.05	73	6	1.2	54	5	.73
20	9.9	5	.13	65	6	1.1	51	5	.69
21	9.9	5	.13	58	5	.78	51	6	.83
22	9.0	6	.15	53	5	.72	174	14	6.6
23	32	6	.52	44	5	.59	169	12	5.5
24	30	2	.16	41	5	.55	112	10	3.0
25	27	7	.96	36	4	.39	89	8	1.9
26	326	81	81	36	4	.39	75	7	1.4
27	139	22	8.3	34	3	.28	69	7	1.3
28	78	6	1.3	32	3	.26	61	6	.99
29	53	3	.43	31	7	.59	55	6	.89
30	211	56	37	30	5	.41	50	5	.68
31	141	18	6.9	---	---	---	46	4	.50
TOTAL	1314.3	---	139.98	3446	---	822.42	7401	---	1847.37

11472150 EEL RIVER NEAR DOS RIOS, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	43	3	.35	31	3	.25	3430	68	630
2	41	3	.33	30	2	.16	2100	43	244
3	38	3	.31	30	2	.16	1450	30	117
4	37	3	.30	29	2	.16	1110	20	60
5	37	3	.30	29	2	.16	834	14	32
6	37	3	.30	30	2	.16	671	10	18
7	37	3	.30	29	3	.23	573	8	12
8	73	10	2.0	28	3	.23	502	6	8.1
9	268	30	22	27	3	.22	426	5	5.8
10	196	20	11	25	3	.20	366	5	4.9
11	125	10	3.4	25	2	.14	315	4	3.4
12	106	7	2.0	25	2	.14	268	4	2.9
13	83	4	.90	29	5	.39	238	3	1.9
14	76	3	.62	154	126	62	214	2	1.2
15	66	2	.36	431	63	73	199	3	1.6
16	61	2	.33	735	94	245	182	4	2.0
17	57	2	.31	643	43	75	169	4	1.8
18	53	2	.29	458	24	30	172	5	2.3
19	48	2	.26	1140	108	327	196	4	2.1
20	46	2	.25	840	40	91	169	2	.91
21	42	2	.23	413	15	17	154	2	.83
22	40	1	.11	261	6	4.2	144	2	.78
23	40	1	.11	193	5	2.6	144	2	.78
24	37	1	.10	154	5	2.1	142	2	.77
25	36	1	.10	2160	425	4260	156	2	.84
26	35	1	.09	7860	1120	25300	137	2	.74
27	35	1	.09	5600	396	6430	132	2	.71
28	34	2	.18	3150	100	850	128	2	.69
29	33	2	.18	5670	428	7270	125	2	.68
30	33	2	.18	---	---	---	121	2	.65
31	32	2	.17	---	---	---	119	2	.64
TOTAL	1925	---	47.45	30229	---	45041.50	15086	---	1160.02

	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	121	1	.33	100	1	.27	30	2	.16
2	115	1	.31	96	1	.26	30	2	.16
3	112	1	.30	92	2	.50	28	3	.23
4	110	1	.30	89	2	.48	27	3	.22
5	110	1	.30	85	1	.23	27	3	.22
6	117	4	1.3	81	1	.22	26	2	.14
7	438	92	220	76	1	.21	25	2	.14
8	1570	135	595	75	1	.20	24	2	.13
9	796	50	107	69	1	.19	24	1	.06
10	1140	46	159	66	1	.18	25	1	.07
11	1320	46	164	63	1	.17	25	1	.07
12	1310	26	92	60	1	.16	24	1	.06
13	966	15	39	57	1	.15	22	1	.06
14	666	9	16	54	1	.15	21	1	.06
15	507	8	11	51	1	.14	20	1	.05
16	409	7	7.7	51	1	.14	17	1	.05
17	334	6	5.4	46	1	.12	17	1	.05
18	300	5	4.1	46	1	.12	17	1	.05
19	258	4	2.8	46	1	.12	17	1	.05
20	220	3	1.8	43	1	.12	16	1	.04
21	196	2	1.1	42	2	.23	15	1	.04
22	185	2	1.0	41	2	.22	14	1	.04
23	169	2	.91	38	2	.21	14	1	.04
24	154	2	.83	37	1	.10	14	1	.04
25	141	2	.76	35	1	.09	13	1	.04
26	132	2	.71	34	1	.09	13	1	.04
27	125	1	.34	33	2	.18	12	2	.06
28	121	1	.33	31	1	.08	11	3	.09
29	112	1	.30	30	1	.08	11	2	.06
30	106	1	.29	30	1	.08	10	1	.03
31	---	---	---	30	2	.16	---	---	---
TOTAL	12360	---	1434.21	1727	---	5.65	589	---	2.55

11472150 EEL RIVER NEAR DOS RIOS, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	9.6	1	.03	4.2	1	.01	4.2	1	.01
2	9.6	1	.03	4.2	1	.01	3.9	1	.01
3	10	2	.05	4.2	1	.01	3.9	1	.01
4	11	5	.15	3.9	1	.01	3.9	1	.01
5	10	4	.11	4.2	1	.01	3.9	1	.01
6	10	4	.11	4.6	2	.02	3.6	1	.01
7	9.0	3	.07	5.4	2	.03	3.9	1	.01
8	8.5	2	.05	5.4	2	.03	3.9	1	.01
9	8.5	1	.02	5.0	1	.01	3.6	1	.01
10	8.5	1	.02	5.0	1	.01	3.2	1	.01
11	8.0	1	.02	4.6	1	.01	3.6	1	.01
12	8.0	2	.04	4.6	1	.01	3.6	1	.01
13	8.0	3	.06	4.2	1	.01	3.6	1	.01
14	7.5	2	.04	5.0	2	.03	4.2	1	.01
15	7.5	1	.02	9.6	1	.03	4.2	1	.01
16	6.6	1	.02	12	1	.03	4.6	1	.01
17	6.2	1	.02	14	1	.04	5.4	1	.01
18	6.2	1	.02	17	1	.05	5.4	1	.01
19	6.2	1	.02	13	1	.04	5.4	1	.01
20	6.2	1	.02	12	1	.03	5.8	1	.02
21	5.4	1	.01	9.6	1	.03	5.8	1	.02
22	5.4	1	.01	8.5	1	.02	5.8	1	.02
23	4.2	1	.01	8.0	1	.02	5.8	1	.02
24	4.6	1	.01	8.0	1	.02	5.8	1	.02
25	5.0	1	.01	7.1	1	.02	5.4	1	.01
26	5.0	2	.03	6.6	2	.04	5.4	1	.01
27	4.6	2	.02	6.2	2	.03	8.5	2	.05
28	3.2	2	.02	5.8	1	.02	17	5	.23
29	3.6	2	.02	5.4	1	.01	13	3	.11
30	3.9	1	.01	5.0	1	.01	9.0	2	.05
31	3.9	1	.01	4.6	1	.01	---	---	---
TOTAL	213.9	---	1.08	216.9	---	.66	165.3	---	.75
YEAR	74673.4		50503.64						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1975	1314.30	139.98	0	140
NOVEMBER ...	3446.00	822.42	1	823
DECEMBER ...	7401.00	1847.37	124	1970
JANUARY 1976	1925.00	47.45	0	47
FEBRUARY ...	30229.00	45041.50	6280	51300
MARCH	15086.00	1160.02	394	1550
APRIL	12360.00	1434.21	21	1460
MAY	1727.00	5.65	0	6
JUNE	589.00	2.55	0	3
JULY	213.90	1.08	0	1
AUGUST	216.90	0.66	0	1
SEPTEMBER ..	165.30	0.75	0	1
TOTAL	74673.40	50503.64	6820	57302

11472150 EEL RIVER NEAR DOS RIOS, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
NOV								
15...	0815	11.0	589	90	143	--	--	--
15...	1645	12.0	1460	279	1100	--	--	--
DEC								
05...	1150	10.0	3030	215	1760	--	--	--
FEB								
25...	1620	9.5	4030	758	8250	44	55	67
26...	1705	10.5	9130	1320	32500	27	36	46
27...	0725	10.0	5790	501	7830	43	54	63
28...	1630	12.0	2690	81	588	--	--	--
APR								
07...	1740	10.5	802	316	684	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
NOV							
15...	--	--	90	95	98	99	100
15...	--	--	97	100	--	--	--
DEC							
05...	--	--	96	99	100	--	--
FEB							
25...	79	88	92	97	100	--	--
26...	58	69	79	87	95	100	--
27...	74	84	90	96	99	100	--
28...	--	--	96	97	100	--	--
APR							
07...	--	--	98	99	100	--	--

11472200 OUTLET CREEK NEAR LONGVALE, CA

LOCATION.--Lat 39°37'05", long 123°21'20", in NE¼ sec.1, T.20 N., R.14 W., Mendocino County, on right bank 0.2 mi (0.3 km) downstream from Bloody Run Creek, 0.9 mi (1.4 km) upstream from mouth, and 6.9 mi (11.1 km) northeast of Longvale.

DRAINAGE AREA.--161 mi^2 (417 km^2).

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

REVISED RECORDS.--WSP 1929: 1958(M), 1960.

GAGE.--Water-stage recorder. Datum of gage is 1,018.14 ft (310.329 m) above mean sea level.

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

AVERAGE DISCHARGE.--20 years, 442 ft^3/s (12.52 m^3/s), 320,200 acre-ft/yr (395 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 77,900 ft^3/s (2,210 m^3/s) Dec. 22, 1964, gage height, 30.6 ft (9.33 m) from floodmarks, from rating curve extended above 17,000 ft^3/s (481 m^3/s) on basis of slope-area measurement of maximum flow; no flow Aug. 15-17, 1959, Sept. 14, 15, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,920 ft^3/s (253 m^3/s) Feb. 26 (time unknown), gage height, 11.16 ft (3.402 m) from high-water mark in well, peak above base of 7,000 ft^3/s (198 m^3/s); minimum daily, 0.59 ft^3/s (0.017 m^3/s) July 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	52	94	25	38	1300	93	61	16	3.9	.79	2.3
2	1.4	38	81	23	37	820	81	59	16	3.9	1.1	2.0
3	1.4	29	63	22	35	600	75	57	16	3.6	1.5	1.9
4	1.4	24	1050	29	35	400	69	54	15	3.9	1.3	1.8
5	1.4	20	2350	25	36	310	68	51	14	3.9	1.5	1.9
6	1.5	18	1090	23	35	265	83	49	13	3.6	1.7	2.0
7	1.8	109	498	21	32	240	502	46	13	3.4	2.0	1.9
8	1.8	78	277	20	30	225	1190	43	13	3.2	2.6	1.8
9	4.6	50	208	390	29	205	680	40	14	3.2	2.6	1.6
10	13	249	167	250	28	185	1130	38	14	3.0	2.4	1.7
11	12	128	139	175	25	170	1320	36	14	2.8	1.9	1.6
12	9.2	80	243	210	25	155	1350	34	12	2.8	1.7	1.6
13	6.8	57	187	147	25	145	944	32	12	2.6	1.7	1.6
14	5.4	46	150	127	30	135	586	30	12	2.4	2.7	1.7
15	4.6	995	127	111	70	128	381	28	11	2.2	5.4	1.5
16	4.1	513	89	104	150	121	285	25	9.9	2.0	5.7	1.3
17	3.7	205	74	95	360	115	228	25	9.4	1.9	5.0	1.5
18	3.7	115	71	88	235	125	194	24	8.6	1.9	9.3	1.6
19	3.7	83	63	80	380	165	165	24	7.5	1.9	8.3	1.6
20	3.5	93	47	74	300	135	142	23	7.5	1.7	6.8	1.6
21	3.2	75	44	67	230	115	127	22	7.1	1.6	5.8	1.5
22	3.1	61	70	64	190	105	117	20	6.5	1.5	5.5	1.5
23	3.0	52	50	60	155	104	107	20	6.5	1.3	5.5	1.3
24	2.9	46	41	56	135	119	96	19	6.5	1.1	4.8	1.2
25	21	41	37	53	1000	144	88	18	6.1	.79	3.9	1.1
26	402	38	33	49	4800	113	80	18	5.2	.88	3.5	1.1
27	101	38	31	46	2800	104	75	17	4.9	.88	3.3	1.2
28	63	37	44	45	1500	96	72	16	4.9	.79	3.1	1.2
29	47	32	36	43	2600	89	65	15	4.1	.68	2.9	1.5
30	298	31	31	41	---	83	65	16	3.9	.59	2.7	1.6
31	88	---	27	40	---	83	---	16	---	.68	2.4	---
TOTAL	1118.6	3433	7512	2603	15345	7099	10458	976	303.6	68.59	109.39	47.7
MEAN	36.1	114	242	84.0	529	229	349	31.5	10.1	2.21	3.53	1.59
MAX	402	995	2350	390	4800	1300	1350	61	16	3.9	9.3	2.3
MIN	1.4	18	27	20	25	83	65	15	3.9	.59	.79	1.1
AC-FT	2220	6810	14900	5160	30440	14080	20740	1940	602	136	217	95

CAL YR 1975 TOTAL 188534.90 MEAN 517 MAX 7870 MIN 1.3 AC-FT 374000
WTR YR 1976 TOTAL 49073.88 MEAN 134 MAX 4800 MIN .59 AC-FT 97340

NOTE.--No gage-height record Feb. 13 to Mar. 15.

11472500 EEL RIVER ABOVE DOS RIOS, CA

LOCATION.--Lat 39°41'20", long 123°21'30", in SW¼ sec.7, T.21 N., R.13 W., Mendocino County, temperature recorder at site of former gaging station on left bank, 1.8 mi (2.9 km) upstream from Middle Fork, and 2.1 mi (3.4 km) south of Dos Rios.

DRAINAGE AREA.--705 mi^2 (1,826 km^2).

PERIOD OF RECORD.--Water years 1957 to current year.
WATER TEMPERATURES: Water years 1958-59, 1961 to current year.
SEDIMENT RECORDS: Water years 1957-65.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1957 to September 1959, October 1960 to September 1965, May 1966 to current year.
SEDIMENT RECORDS: October 1957 to September 1965.

INSTRUMENTATION.--Temperature recorder since May 1961.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1963-66, 1973-76), 29.0°C June 15, 1966, Aug. 2, 1974; minimum (water years 1963-67, 1972-76), 1.0°C on several days in 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 28.0°C July 27; minimum, 3.0°C Jan. 1.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	15.0	12.0	10.5	9.0	7.5	4.5	3.0	7.0	6.0	9.0	8.0
2	18.5	15.0	13.0	11.0	9.5	8.5	4.0	3.5	8.0	6.5	8.0	7.0
3	19.0	16.0	14.0	12.0	9.5	8.5	5.0	4.5	8.5	7.0	8.5	6.5
4	19.0	16.0	14.5	13.0	9.5	8.5	6.0	5.0	8.0	6.5	9.5	7.0
5	19.0	17.0	13.5	13.0	10.0	9.5	6.5	6.0	7.0	5.5	9.5	7.0
6	18.0	16.5	13.5	12.5	10.5	9.5	6.5	5.0	6.0	4.5	10.0	7.5
7	20.5	16.0	13.0	12.0	10.0	9.5	7.0	5.5	6.5	4.5	10.5	8.0
8	19.0	17.5	12.0	10.5	9.5	8.5	7.5	7.0	6.5	5.5	11.5	9.0
9	17.5	16.0	10.5	9.5	9.5	8.5	7.5	6.0	7.5	5.5	12.0	9.5
10	16.5	15.5	9.5	9.0	9.5	8.5	6.5	6.0	7.5	5.0	12.5	10.0
11	17.5	16.0	9.5	9.0	9.0	8.0	6.5	6.0	8.0	6.0	12.0	10.0
12	18.0	16.0	10.0	8.5	9.0	8.0	7.0	6.0	9.0	7.0	12.0	9.5
13	18.0	15.5	10.0	8.5	8.0	6.5	7.0	6.5	8.5	8.0	12.0	10.0
14	18.0	15.0	10.0	9.0	6.5	5.5	7.5	6.0	8.0	7.0	11.5	10.0
15	17.5	14.5	11.0	10.0	6.5	5.0	7.5	6.0	7.5	6.5	12.5	10.0
16	17.5	15.0	11.0	9.5	6.5	5.5	8.0	6.5	8.5	7.5	13.0	11.0
17	16.5	15.0	9.5	8.5	7.0	6.0	8.0	6.5	9.0	8.5	14.0	11.5
18	17.5	15.0	8.5	7.5	7.0	6.0	7.5	6.5	10.0	8.5	13.0	11.5
19	16.0	14.0	7.5	6.5	7.0	6.0	7.0	5.5	9.0	7.5	12.0	10.0
20	16.5	14.0	8.5	7.5	6.5	5.5	6.5	5.0	8.5	7.0	12.0	9.0
21	16.5	14.5	9.0	7.0	7.0	6.0	6.0	5.0	8.5	7.0	13.5	10.0
22	15.5	13.5	8.5	7.5	7.5	6.5	6.5	5.0	8.5	7.0	12.0	10.5
23	14.0	12.0	8.5	7.0	7.5	6.5	6.0	5.5	8.5	7.5	11.5	9.5
24	13.5	11.0	9.0	7.5	7.5	6.5	6.5	5.0	8.5	7.5	11.0	10.0
25	12.5	12.0	9.0	7.5	8.0	7.5	6.0	4.5	8.5	8.0	11.5	9.0
26	13.5	11.5	8.5	8.0	8.0	8.0	6.0	4.0	9.5	8.5	11.0	9.5
27	12.5	11.5	8.5	7.5	8.5	7.5	6.0	4.5	10.5	9.5	10.5	8.5
28	13.0	11.5	7.5	6.5	8.5	7.5	6.0	4.0	10.5	10.0	12.0	9.5
29	12.5	11.5	7.0	6.0	9.0	7.5	6.0	4.5	10.0	9.0	13.0	9.5
30	12.5	11.5	7.5	7.0	7.5	5.5	6.5	4.5	---	---	14.5	11.0
31	12.0	10.5	---	---	6.0	4.0	7.0	5.5	---	---	13.5	11.0
MONTH	20.5	10.5	14.5	6.0	10.5	4.0	8.0	3.0	10.5	4.5	14.5	6.5

11472500 EEL RIVER ABOVE DOS RIOS, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	9.5	18.5	15.5	20.0	17.0	22.5	19.0	25.0	22.0	24.0	20.5
2	13.0	9.5	17.5	14.5	19.5	16.5	22.5	18.5	25.0	21.5	23.5	19.5
3	12.5	11.0	18.5	14.0	19.0	15.5	23.0	19.0	21.5	20.0	24.0	20.5
4	14.0	10.5	18.0	15.5	19.5	15.5	24.0	19.5	23.5	19.5	24.0	20.5
5	13.5	11.5	18.5	15.0	20.0	16.0	24.5	20.5	23.5	20.0	24.0	21.0
6	12.5	11.0	18.0	14.5	20.0	16.5	24.5	20.5	22.5	20.0	23.0	20.0
7	12.0	9.5	20.0	16.5	19.5	17.0	25.0	21.5	23.0	19.0	23.0	19.0
8	10.5	9.5	21.0	17.5	20.0	16.0	26.0	21.5	23.5	19.5	23.0	19.0
9	10.5	9.0	21.5	18.0	19.0	18.0	25.5	22.0	24.5	20.0	23.5	19.5
10	10.0	9.0	21.0	18.5	20.5	17.0	25.5	21.5	24.5	21.0	22.0	19.5
11	9.0	8.5	20.0	17.0	20.5	17.5	25.0	22.0	25.0	21.0	22.0	19.0
12	10.0	8.0	22.0	17.0	22.5	18.5	25.0	21.0	25.0	21.0	21.5	18.5
13	11.5	9.0	23.0	20.0	21.5	18.5	25.0	20.5	22.5	20.5	21.5	18.0
14	13.0	10.0	21.5	18.5	22.0	17.5	26.0	21.0	21.5	19.5	21.5	18.0
15	12.5	10.5	21.5	18.0	23.5	19.0	26.5	22.0	20.0	18.5	20.0	17.0
16	12.0	9.0	21.5	19.0	23.5	19.5	26.5	23.0	19.0	17.5	18.5	17.0
17	12.0	9.5	19.5	16.5	23.5	19.0	26.5	22.5	18.5	18.0	20.5	16.5
18	13.5	10.0	19.0	15.5	24.5	20.0	27.0	23.0	18.0	17.5	20.5	17.0
19	15.0	11.0	19.0	16.0	25.0	20.5	26.0	22.5	21.5	17.0	21.0	18.0
20	16.0	12.5	19.0	15.5	23.0	20.5	25.5	21.5	23.0	19.0	20.5	17.5
21	14.5	13.0	20.0	16.5	22.5	19.0	25.0	20.5	24.0	20.5	20.5	17.5
22	17.0	13.0	21.0	17.5	21.5	18.0	25.5	20.5	22.5	21.0	20.5	17.5
23	16.5	13.0	20.5	17.5	22.0	18.0	25.5	22.0	23.5	19.5	20.0	17.0
24	17.5	14.0	21.0	18.0	23.0	19.0	26.0	21.5	24.0	20.0	20.5	17.5
25	15.5	12.5	21.0	18.0	22.5	19.5	26.5	22.0	23.0	20.5	20.0	17.0
26	16.0	12.0	21.5	17.5	23.0	18.5	27.5	22.5	21.5	18.5	20.0	17.0
27	16.0	12.5	22.0	18.5	23.5	18.5	28.0	23.5	22.5	18.5	17.5	17.0
28	16.0	13.0	19.0	16.0	24.0	19.5	26.0	24.0	23.5	19.5	17.5	16.5
29	17.5	13.5	17.5	15.5	24.0	20.5	27.0	23.0	24.0	20.0	19.0	17.0
30	18.5	14.5	19.0	16.5	23.0	20.0	26.5	23.0	24.5	20.5	20.0	17.5
31	---	---	20.5	17.5	---	---	25.0	22.5	24.5	20.5	---	---
MONTH	18.5	8.0	23.0	14.0	25.0	15.5	28.0	18.5	25.0	17.0	24.0	16.5

11473000 MIDDLE FORK EEL RIVER BELOW BLACK BUTTE RIVER, NEAR COVELO, CA

LOCATION.--Lat 39°49'35", long 123°05'30", in NW¼ sec.28, T.23 N., R.11 W., Mendocino County, temperature recorder at site of former gaging station, 0.2 mi (0.3 km) downstream from Black Butte River, and 8.6 mi (13.8 km) east of Covelo.

DRAINAGE AREA.--367 mi^2 (951 km^2).

PERIOD OF RECORD.--Water years 1961 to current year.
CHEMICAL ANALYSES: Water years 1965-66.
WATER TEMPERATURES: Water years 1961 to current year.
SEDIMENT RECORDS: Water years 1963-67.
TURBIDITY: Water years 1965-67.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: July to November 1961, October 1962 to current year.
SEDIMENT RECORDS: October 1962 to September 1967.

INSTRUMENTATION.--Temperature recorder since October 1967.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES (water years 1963, 1966, 1968, 1970-76): Maximum, 29.5°C July 15, 1972; minimum (water years 1970-76), 0.5°C Dec. 14, 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 27.0°C July 15; minimum, 2.0°C on several days during January and February.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCT MAX	OCT DAILY	OCT MIN	NOV MAX	NOV DAILY	NOV MIN	DEC MAX	DEC DAILY	DEC MIN	JAN MAX	JAN DAILY	JAN MIN	FEB MAX	FEB DAILY	FEB MIN	MAR MAX	MAR DAILY	MAR MIN
1	21.5	--	19.5	9.0	--	8.0	--	--	--	3.0	--	2.0	4.5	--	3.5	6.5	--	5.5
2	19.5	--	18.0	9.5	--	8.5	--	--	--	2.0	--	2.0	5.5	--	4.0	5.5	--	5.0
3	20.0	--	17.5	10.0	--	9.0	--	--	--	3.0	--	2.0	5.5	--	4.0	5.0	--	4.0
4	20.0	--	17.5	10.0	--	9.0	--	--	--	3.5	--	3.0	5.0	--	4.0	5.5	--	4.5
5	20.0	--	18.0	--	9.0	--	--	--	--	4.5	--	3.5	4.0	--	2.5	5.5	--	4.5
6	18.5	--	18.0	--	--	--	--	--	--	4.5	--	4.0	3.5	--	2.0	6.0	--	5.0
7	18.0	--	16.5	--	--	--	--	--	--	4.5	--	3.5	4.0	--	2.0	6.5	--	5.0
8	17.0	--	16.0	--	--	--	--	--	--	5.0	--	4.5	4.5	--	3.0	7.5	--	6.0
9	16.5	--	15.5	--	--	--	--	--	--	5.0	--	4.5	5.5	--	3.5	7.0	--	5.5
10	15.5	--	14.0	--	--	--	--	6.5	--	4.5	--	3.5	5.0	--	3.0	7.5	--	6.0
11	14.5	--	13.5	--	--	--	5.5	--	5.0	4.0	--	3.5	7.0	--	3.0	7.0	--	6.0
12	14.5	--	13.0	--	--	--	6.0	--	5.5	4.5	--	4.0	8.0	--	6.0	7.0	--	5.5
13	15.0	--	13.0	--	--	--	5.5	--	4.5	4.5	--	4.0	7.5	--	7.0	7.0	--	5.5
14	15.0	--	13.0	--	--	--	4.5	--	3.5	4.5	--	4.0	7.0	--	6.5	7.0	--	6.0
15	15.0	--	13.5	--	--	--	3.5	--	3.5	4.5	--	4.0	7.0	--	6.5	7.0	--	6.0
16	15.5	--	13.5	--	--	--	4.0	--	3.5	4.5	--	4.0	7.0	--	6.5	8.0	--	6.5
17	14.5	--	13.5	--	--	--	4.0	--	4.0	4.5	--	4.0	7.0	--	6.0	9.0	--	7.0
18	15.5	--	14.0	--	--	--	4.0	--	3.5	4.5	--	4.0	7.0	--	6.5	8.5	--	6.5
19	16.5	--	13.5	--	5.5	--	4.0	--	3.5	4.5	--	4.0	7.0	--	6.0	6.5	--	5.0
20	16.0	--	13.5	--	--	--	4.0	--	3.5	4.5	--	4.0	6.0	--	4.5	6.5	--	5.0
21	15.0	--	13.5	--	--	--	4.0	--	3.5	4.0	--	3.5	6.0	--	4.5	7.5	--	5.5
22	14.0	--	12.5	--	--	--	4.5	--	4.0	4.0	--	3.0	6.0	--	5.0	7.0	--	6.0
23	13.0	--	11.5	--	--	--	4.5	--	4.0	4.0	--	3.5	6.5	--	5.5	7.0	--	6.0
24	12.5	--	11.0	--	--	--	4.5	--	4.0	4.5	--	3.5	6.5	--	5.0	6.5	--	6.0
25	12.0	--	11.5	--	--	--	4.5	--	4.0	4.0	--	3.0	6.5	--	6.0	7.0	--	5.0
26	11.5	--	9.5	--	--	--	5.0	--	4.5	4.0	--	2.5	6.5	--	6.0	6.5	--	5.5
27	9.5	--	9.0	--	--	--	5.5	--	5.0	3.5	--	3.0	7.0	--	6.5	6.0	--	5.0
28	9.5	--	9.0	--	--	--	5.0	--	4.5	3.5	--	2.0	7.0	--	7.0	8.0	--	5.5
29	9.0	--	8.5	--	--	--	5.5	--	5.0	3.5	--	2.5	7.0	--	6.5	8.0	--	6.0
30	9.0	--	8.5	--	--	--	5.5	--	4.5	4.0	--	3.0	--	--	--	9.5	--	7.0
31	8.5	--	7.5	--	--	--	4.5	--	3.0	4.5	--	3.0	--	--	--	8.5	--	7.0
MONTH	21.5	--	7.5	--	--	--	--	--	--	5.0	--	2.0	8.0	--	2.0	9.5	--	4.0

11473000 MIDDLE FORK EEL RIVER BELOW BLACK BUTTE RIVER, NEAR COVELO, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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	7.5	--	5.5	13.5	--	11.0	17.0	--	14.0	23.0	--	19.0	25.5	--	21.5	--	22.0	--
2	8.0	--	5.5	12.5	--	10.5	17.0	--	14.0	23.0	--	20.0	24.5	--	21.5	26.5	--	22.0
3	8.0	--	6.5	13.0	--	10.5	17.5	--	14.0	24.0	--	20.0	22.5	--	20.5	26.5	--	21.0
4	9.5	--	6.5	12.5	--	11.5	18.0	--	14.5	24.5	--	21.0	23.5	--	20.5	26.0	--	22.0
5	9.0	--	8.0	13.5	--	11.5	18.0	--	15.0	24.5	--	21.0	22.0	--	20.0	--	--	--
6	8.5	--	8.0	13.0	--	11.5	18.5	--	15.5	24.5	--	21.5	21.5	--	19.0	--	--	--
7	8.0	--	7.5	14.5	--	11.5	17.5	--	15.5	24.5	--	21.5	23.0	--	19.0	--	--	--
8	7.5	--	6.5	15.5	--	12.5	17.5	--	14.5	25.5	--	21.5	23.5	--	19.5	--	--	--
9	7.0	--	6.0	15.5	--	13.0	16.0	--	15.0	25.0	--	22.0	24.5	--	19.5	--	--	--
10	7.0	--	6.0	14.5	--	13.5	17.5	--	14.5	26.0	--	22.0	24.5	--	20.0	--	--	--
11	6.0	--	5.5	15.0	--	13.0	17.0	--	14.5	24.5	--	22.0	25.0	--	20.5	--	--	--
12	7.5	--	5.5	16.5	--	13.5	18.5	--	15.5	25.5	--	21.5	24.5	--	20.0	--	--	--
13	8.0	--	6.0	17.5	--	14.5	19.0	--	16.0	26.0	--	22.5	21.5	--	20.5	--	--	--
14	--	--	--	16.5	--	14.5	20.0	--	16.0	26.5	--	22.5	21.0	--	19.5	--	23.0	--
15	--	--	--	16.5	--	13.5	21.0	--	16.5	27.0	--	23.0	20.0	--	18.0	--	--	--
16	--	--	--	16.5	--	14.0	21.0	--	17.0	26.5	--	23.5	18.0	--	16.5	--	--	--
17	--	--	--	16.0	--	14.0	22.0	--	18.0	24.5	--	22.5	17.0	--	16.5	--	--	--
18	--	--	--	16.0	--	13.5	22.5	--	18.5	25.0	--	22.0	17.0	--	16.5	--	--	--
19	--	--	--	16.5	--	14.0	22.5	--	19.0	25.0	--	22.0	20.5	--	16.0	--	--	--
20	--	11.5	--	16.5	--	14.0	21.5	--	19.0	24.5	--	21.0	22.0	--	17.5	--	--	--
21	11.0	--	9.5	17.0	--	14.5	21.5	--	19.0	24.5	--	21.0	22.0	--	18.5	--	--	--
22	11.5	--	9.5	17.0	--	14.5	22.0	--	18.5	25.0	--	21.0	20.5	--	18.5	--	--	--
23	11.0	--	9.5	17.0	--	14.5	22.5	--	19.0	25.0	--	21.5	22.0	--	17.5	--	--	--
24	12.0	--	10.5	17.5	--	15.0	23.0	--	19.0	25.5	--	21.5	22.5	--	18.5	--	--	--
25	11.0	--	8.5	18.5	--	15.5	23.0	--	20.0	26.5	--	22.0	21.5	--	18.5	--	--	--
26	10.0	--	8.5	19.5	--	15.5	23.5	--	19.5	26.5	--	22.0	20.5	--	17.5	--	--	--
27	10.0	--	8.5	19.0	--	16.0	24.0	--	19.5	26.5	--	22.5	21.5	--	17.0	--	--	--
28	10.0	--	8.5	18.0	--	15.0	24.0	--	19.5	24.0	--	22.5	--	--	--	--	--	--
29	11.5	--	8.5	16.0	--	14.5	23.0	--	20.0	26.0	--	20.0	--	--	--	--	--	--
30	13.0	--	10.0	16.5	--	15.0	22.5	--	19.5	25.5	--	21.5	--	--	--	--	--	--
31	--	--	--	17.0	--	14.5	--	--	--	24.5	--	21.5	--	--	--	--	--	--
MONTH	--	--	--	19.5	--	10.5	24.0	--	14.0	27.0	--	19.0	25.5	--	16.0	--	--	--

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CA

LOCATION.--Lat 39°42'23", long 123°19'27", in NE¼SE¼ sec.5, T.21 N., R.13 W., Mendocino County, on right bank 0.6 mi (1.0 km) upstream from Eastman Creek, 1.7 mi (2.7 km) southeast of Dos Rios, and 1.9 mi (3.1 km) upstream from mouth.

DRAINAGE AREA.--745 mi^2 (1,930 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 901.58 ft (274.802 m) above mean sea level.

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

AVERAGE DISCHARGE.--11 years, 1,821 ft^3/s (51.57 m^3/s), 1,319,000 acre-ft/yr (1.63 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90,500 ft^3/s (2,560 m^3/s) Jan. 23, 1970, gage height, 27.15 ft (8.275 m); minimum daily, 5.8 ft^3/s (0.16 m^3/s) Sept. 14-16, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 23,700 ft^3/s (671 m^3/s) Feb. 26, gage height, 17.48 ft (5.328 m), no peak above base of 35,000 ft^3/s (991 m^3/s); minimum daily, 14 ft^3/s (0.40 m^3/s) Oct. 2-5, Aug. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	537	288	150	192	7370	945	1040	186	38	14	30
2	14	374	390	133	186	4330	897	1080	179	40	14	28
3	14	265	347	134	181	3170	864	1000	171	41	19	25
4	14	209	379	139	179	2570	838	966	159	40	40	24
5	14	168	3770	136	169	2160	858	938	149	38	28	23
6	18	134	3840	138	154	1910	884	925	143	38	23	22
7	19	195	2050	119	152	1780	1220	864	138	35	40	21
8	20	582	1220	115	154	1710	2660	884	134	34	28	21
9	23	349	845	1110	154	1630	1980	891	134	33	22	21
10	69	481	676	762	147	1580	1950	858	138	32	20	20
11	154	455	583	529	140	1550	2000	787	136	30	23	19
12	117	348	602	534	134	1440	1980	716	134	28	22	19
13	99	344	539	497	138	1360	1810	705	125	28	20	18
14	67	335	458	447	217	1290	1710	683	116	27	24	19
15	50	2990	355	408	341	1290	1730	609	110	26	54	19
16	42	4380	305	384	918	1280	1590	539	98	24	149	21
17	40	2060	274	388	1800	1380	1450	487	94	23	127	24
18	38	1180	243	380	1390	1570	1510	443	90	23	94	27
19	34	794	214	352	1840	1490	1540	408	83	22	102	28
20	32	668	190	329	1550	1280	1690	360	75	23	85	27
21	34	579	173	308	1160	1220	1690	322	70	23	65	26
22	32	490	369	290	973	1150	1590	300	67	23	59	23
23	30	429	296	280	838	1130	1580	283	64	22	125	22
24	29	377	226	273	727	1080	1550	270	57	21	96	23
25	38	348	204	257	2880	1180	1590	257	53	19	73	21
26	1890	326	187	238	15600	1070	1410	247	50	17	57	20
27	1060	319	209	229	11800	1020	1260	232	46	16	50	19
28	561	312	212	220	8640	966	1130	217	43	16	45	19
29	418	274	221	208	11700	925	1020	203	41	16	38	21
30	1710	254	214	203	---	897	980	194	38	15	37	21
31	1130	---	192	194	---	959	---	192	---	15	34	---
TOTAL	7825	20556	20071	9884	64454	53737	43906	17900	3121	826	1627	671
MEAN	252	685	647	319	2223	1733	1464	577	104	26.6	52.5	22.4
MAX	1890	4380	3840	1110	15600	7370	2660	1080	186	41	149	30
MIN	14	134	173	115	134	897	838	192	38	15	14	18
AC-FT	15520	40770	39810	19600	127800	106600	87090	35500	6190	1640	3230	1330

CAL YR 1975 TOTAL 674282 MEAN 1847 MAX 26700 MIN 14 AC-FT 1337000
WTR YR 1976 TOTAL 244578 MEAN 668 MAX 15600 MIN 14 AC-FT 485100

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956 to current year.
CHEMICAL ANALYSES: Water years 1959-66. Prior to October 1965, published as "at Dos Rios."
SPECIFIC CONDUCTANCE: Water year 1967.
WATER TEMPERATURES: Water years 1958-59, 1961 to current year.
SEDIMENT RECORDS: Water years 1956 to September 1976 (discontinued).
TURBIDITY: Water years 1965-68.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1966 to September 1967.
WATER TEMPERATURES: October 1957 to September 1959, October 1960 to current year.
SEDIMENT RECORDS: October 1965 to September 1976 (discontinued).

INSTRUMENTATION: Temperature recorder since March 1970.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1972-74, 1976), 35.5°C June 20, 1973; minimum (water years 1969-76), 0.0°C Dec. 22, 1968.
SEDIMENT CONCENTRATIONS (water years 1966-76): Maximum daily mean, 11,800 mg/L Jan. 4, 1966; minimum daily mean, 1 mg/L on many days in 1965-76.
SEDIMENT DISCHARGE (water years 1966-76): 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.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 28.0°C July 15, 26, 27; minimum, 2.0°C Jan. 2.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,350 mg/L Feb. 26; minimum daily mean, 1 mg/L on many days during October, June to September.
SEDIMENT DISCHARGE: Maximum daily, 147,000 tons (133,000 tonnes) Feb. 26; minimum daily, 0.04 ton (0.04 tonne) on several days during October and August.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	16.0	12.0	10.5	8.0	6.5	4.0	2.5	6.5	5.0	9.0	6.5
2	20.0	18.0	12.5	11.0	8.5	7.0	3.5	2.0	7.0	5.0	7.0	7.0
3	20.0	16.0	13.0	11.5	8.0	6.5	4.5	3.0	7.0	5.0	7.0	6.5
4	20.5	17.0	13.0	12.0	8.0	7.0	5.0	4.0	6.5	4.5	7.5	7.0
5	20.5	17.5	12.5	11.5	8.5	7.5	6.0	4.5	5.5	4.0	7.5	7.0
6	19.0	17.0	12.5	11.5	8.5	8.0	5.5	4.5	4.5	3.5	8.0	7.5
7	18.0	16.0	13.0	12.0	8.0	7.0	5.5	4.0	5.5	3.5	8.0	8.0
8	17.0	15.0	12.0	10.5	8.0	7.0	6.5	5.5	6.0	4.0	9.0	8.5
9	16.0	15.0	10.5	9.0	7.5	6.0	6.5	6.0	6.0	4.5	9.5	9.0
10	16.5	14.5	10.0	9.0	7.5	6.0	6.0	5.0	6.0	3.5	10.0	9.5
11	16.5	14.5	9.5	8.0	7.0	6.0	6.0	4.5	6.0	4.0	10.0	10.0
12	17.0	14.5	9.0	7.5	7.5	6.5	6.0	5.5	7.5	5.5	10.0	9.5
13	17.0	14.5	9.0	7.5	6.5	5.5	6.0	5.0	7.5	6.5	10.0	10.0
14	17.0	14.0	9.0	8.0	5.5	4.0	6.0	5.0	7.0	6.0	10.5	10.0
15	16.5	14.0	9.5	9.0	5.0	3.5	6.5	5.0	7.5	6.0	10.5	10.0
16	16.5	14.0	9.5	8.0	5.5	3.5	6.5	4.5	8.0	7.0	11.0	10.5
17	16.0	14.5	8.0	6.5	5.5	4.0	6.5	4.5	8.0	7.0	11.5	10.5
18	17.0	15.0	6.5	5.0	5.0	4.0	6.0	4.5	8.5	7.0	10.5	8.5
19	16.5	14.5	6.0	4.5	5.0	3.5	5.5	3.5	8.0	7.0	8.5	6.5
20	17.0	14.5	7.5	6.0	4.5	3.5	5.5	3.5	7.5	5.0	9.5	5.5
21	16.5	15.0	7.0	5.5	4.5	3.5	5.0	3.5	7.5	5.0	10.5	6.5
22	15.0	13.0	7.0	5.5	5.5	4.5	5.5	3.5	8.0	6.0	9.0	7.5
23	13.5	11.0	7.0	5.5	6.0	5.0	5.5	4.0	8.0	6.0	9.5	6.5
24	13.5	10.5	7.5	5.5	6.0	5.0	5.5	3.5	8.0	6.0	9.0	7.5
25	13.5	12.5	7.5	6.0	6.0	5.0	5.0	2.5	8.0	7.5	9.5	6.5
26	13.5	12.0	7.5	6.0	6.5	5.5	5.0	3.0	9.0	8.0	9.5	7.0
27	12.5	11.5	7.0	6.5	7.5	6.5	5.0	3.0	8.5	8.0	8.5	6.0
28	13.0	12.0	6.5	5.0	7.0	5.5	5.0	2.5	9.5	8.5	10.5	7.0
29	12.5	11.5	6.0	4.5	7.0	6.0	5.0	3.5	9.0	8.5	11.5	7.0
30	12.5	11.5	6.5	6.0	7.0	5.5	5.5	3.5	---	---	12.5	8.5
31	11.5	10.5	---	---	5.5	4.0	6.0	4.0	---	---	11.0	8.5
MONTH	21.0	10.5	13.0	4.5	8.5	3.5	6.5	2.0	9.5	3.5	12.5	5.5

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	6.5	15.5	11.5	---	---	24.0	18.5	26.0	21.5	27.0	22.0
2	11.0	7.0	15.5	11.5	---	---	24.5	18.5	26.0	21.5	26.0	21.5
3	11.0	8.0	16.5	11.5	---	---	24.5	19.5	23.5	21.0	26.5	22.0
4	13.0	8.0	15.5	12.0	---	---	26.0	20.0	24.5	20.0	26.5	21.5
5	11.0	9.5	16.0	11.5	---	---	26.5	21.0	24.5	20.5	25.5	22.0
6	11.0	8.5	16.5	12.0	---	---	26.0	21.0	22.5	20.5	24.5	21.0
7	10.0	8.0	17.5	12.5	---	---	26.0	21.5	24.5	20.0	25.5	20.5
8	9.5	7.5	18.5	13.5	---	---	27.0	21.5	25.0	20.5	25.5	20.5
9	10.0	7.0	19.0	14.5	---	---	26.5	22.0	25.5	21.5	25.0	20.5
10	8.5	7.5	18.0	14.0	---	---	26.5	21.0	26.0	22.0	23.0	20.5
11	8.0	6.5	19.0	14.0	---	---	25.0	21.5	26.0	22.0	24.0	20.0
12	9.5	6.5	20.0	14.5	---	---	26.5	21.5	26.0	22.0	23.5	19.5
13	11.0	7.5	20.5	16.0	---	---	27.0	21.0	24.0	21.5	24.0	19.0
14	11.5	7.5	20.0	15.5	---	---	27.5	21.5	22.0	20.5	23.5	19.5
15	11.0	8.0	20.5	15.5	---	---	28.0	22.5	21.0	20.0	22.5	18.5
16	10.0	6.5	20.0	15.5	24.5	19.5	27.5	23.5	21.5	19.0	20.5	19.0
17	10.0	7.0	19.5	15.5	26.0	19.0	27.5	23.0	20.0	19.0	22.5	18.5
18	12.0	8.0	19.5	14.5	25.5	20.5	27.0	23.0	20.0	18.5	23.5	19.0
19	13.0	8.5	19.0	15.0	26.0	20.0	25.5	22.0	24.5	18.5	23.5	19.5
20	13.5	9.5	20.0	15.0	23.5	19.5	26.0	21.5	25.0	20.0	22.5	19.0
21	11.5	9.5	20.5	15.5	23.5	19.0	25.5	21.0	25.0	21.5	22.5	18.5
22	13.5	9.5	20.5	15.5	24.0	18.5	26.0	21.0	23.5	21.0	23.0	19.0
23	13.0	9.5	20.5	15.5	24.5	19.0	26.0	22.5	25.0	20.5	23.0	19.0
24	14.0	10.5	21.0	16.0	25.5	20.0	26.5	22.5	25.5	20.5	23.0	19.0
25	13.0	9.0	21.5	16.5	25.0	20.5	27.5	23.0	24.0	20.5	22.5	18.5
26	12.5	8.5	19.5	16.0	25.5	20.0	28.0	23.5	24.0	20.0	22.5	18.5
27	13.0	8.5	---	---	26.5	20.0	28.0	24.0	25.5	20.0	20.5	19.0
28	13.0	9.0	---	---	26.5	21.0	27.0	24.0	25.5	20.5	21.0	19.5
29	14.0	9.0	---	---	25.0	20.5	27.5	23.5	26.0	21.0	22.5	19.0
30	15.5	10.5	---	---	23.5	19.5	27.0	23.0	26.0	21.0	23.0	19.0
31	---	---	---	---	---	---	25.0	22.0	26.5	21.0	---	---
MONTH	15.5	6.5	21.5	11.5	---	---	28.0	18.5	26.5	18.5	27.0	18.5

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	15	1	.04	537	15	22	288	4	3.1
2	14	1	.04	374	6	6.1	390	14	15
3	14	1	.04	265	5	3.6	347	11	10
4	14	1	.04	209	4	2.3	379	202	290
5	14	1	.04	168	4	1.8	3770	768	8200
6	18	2	.10	134	3	1.1	3840	500	5180
7	19	1	.05	195	19	26	2050	140	775
8	20	1	.05	582	46	77	1220	60	198
9	23	2	.12	349	19	18	845	30	68
10	69	6	2.2	481	25	35	676	22	40
11	154	7	2.9	455	14	17	583	14	22
12	117	3	.95	348	10	9.4	602	16	26
13	99	2	.53	344	10	9.3	539	9	13
14	67	3	.54	335	10	9.0	458	9	11
15	50	3	.41	2990	699	9530	355	8	7.7
16	42	3	.34	4380	460	5440	305	7	5.8
17	40	3	.32	2060	120	667	274	6	4.4
18	38	3	.31	1180	50	159	243	6	3.9
19	34	3	.28	794	25	54	214	5	2.9
20	32	3	.26	668	18	32	190	5	2.6
21	34	3	.28	579	14	22	173	4	1.9
22	32	3	.26	490	10	13	369	15	15
23	30	3	.24	429	8	9.3	296	7	5.6
24	29	3	.23	377	7	7.1	226	5	3.1
25	38	9	.92	348	6	5.6	204	4	2.2
26	1890	614	4800	326	5	4.4	187	3	1.5
27	1060	67	228	319	5	4.3	209	4	2.3
28	561	14	21	312	5	4.2	212	3	1.7
29	418	6	6.8	274	6	4.4	221	3	1.8
30	1710	234	1530	254	5	3.4	214	3	1.7
31	1130	77	235	---	---	---	192	3	1.6
TOTAL	7825	---	6832.29	20556	---	16197.3	20071	---	14916.8

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	150	2	.81	192	3	1.6	7370	670	13300
2	133	2	.72	186	3	1.5	4330	370	4330
3	134	2	.72	181	3	1.5	3170	290	2480
4	139	2	.75	179	2	.97	2570	234	1620
5	136	2	.73	169	2	.91	2160	180	1050
6	138	2	.75	154	2	.83	1910	120	619
7	119	2	.64	152	2	.82	1780	90	433
8	115	2	.62	154	2	.83	1710	68	314
9	1110	140	420	154	2	.83	1630	50	220
10	762	20	41	147	1	.40	1580	40	171
11	529	12	17	140	2	.76	1550	35	146
12	534	12	17	134	1	.36	1440	30	117
13	497	10	13	138	3	1.1	1360	28	103
14	447	6	7.2	217	25	15	1290	26	91
15	408	3	3.3	341	22	20	1290	24	84
16	384	3	3.1	918	176	751	1280	22	76
17	388	5	5.2	1800	170	826	1380	28	104
18	380	4	4.1	1390	55	206	1570	48	203
19	352	4	3.8	1840	82	414	1490	34	137
20	329	3	2.7	1550	45	188	1280	22	76
21	308	3	2.5	1160	30	94	1220	20	66
22	290	2	1.6	973	26	68	1150	20	62
23	280	2	1.5	838	24	54	1130	18	55
24	273	1	.74	727	22	43	1080	16	47
25	257	2	1.4	2880	1370	22700	1180	15	48
26	238	2	1.3	15600	3350	147000	1070	14	40
27	229	2	1.2	11800	1430	46800	1020	13	36
28	220	2	1.2	8640	800	18700	966	12	31
29	208	2	1.1	11700	1540	53100	925	11	27
30	203	3	1.6	---	---	---	897	10	24
31	194	4	2.1	---	---	---	959	12	31
TOTAL	9884	---	559.38	64454	---	290991.41	53737	---	26141

	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	945	12	31	1040	13	37	186	2	1.0
2	897	9	22	1080	13	38	179	2	.97
3	864	7	16	1000	13	35	171	2	.92
4	838	7	16	966	12	31	159	3	1.3
5	858	10	23	938	11	28	149	2	.80
6	884	8	19	925	10	25	143	2	.77
7	1220	453	2250	864	8	19	138	2	.75
8	2660	796	6070	884	7	17	134	2	.72
9	1980	180	962	891	7	17	134	3	1.1
10	1950	110	579	858	7	16	138	2	.75
11	2000	100	540	787	7	15	136	2	.73
12	1980	90	481	716	6	12	134	2	.72
13	1810	68	332	705	6	11	125	2	.68
14	1710	57	263	683	6	11	116	2	.63
15	1730	46	215	609	5	8.2	110	3	.89
16	1590	37	159	539	5	7.3	98	1	.26
17	1450	35	137	487	4	5.3	94	2	.51
18	1510	35	143	443	4	4.8	90	2	.49
19	1540	30	125	408	3	3.3	83	2	.45
20	1690	65	297	360	3	2.9	75	2	.41
21	1690	50	228	322	3	2.6	70	2	.38
22	1590	44	189	300	3	2.4	67	2	.36
23	1580	38	162	283	3	2.3	64	4	.69
24	1550	32	134	270	3	2.2	57	2	.31
25	1590	30	129	257	3	2.1	53	2	.29
26	1410	23	88	247	2	1.3	50	2	.27
27	1260	19	65	232	1	.63	46	2	.25
28	1130	16	49	217	2	1.2	43	4	.46
29	1020	15	41	203	2	1.1	41	2	.22
30	980	14	37	194	2	1.0	38	2	.21
31	---	---	---	192	2	1.0	---	---	---
TOTAL	43906	---	13802	17900	---	361.63	3121	---	18.29

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	38	2	.21	14	1	.04	30	2	.16
2	40	1	.11	14	1	.04	28	2	.15
3	41	2	.22	19	2	.10	25	2	.14
4	40	2	.22	40	6	.65	24	2	.13
5	38	2	.21	28	2	.15	23	2	.12
6	38	2	.21	23	1	.06	22	2	.12
7	35	2	.19	40	1	.11	21	2	.11
8	34	2	.18	28	1	.08	21	2	.11
9	33	1	.09	22	1	.06	21	2	.11
10	32	1	.09	20	1	.05	20	2	.11
11	30	1	.08	23	1	.06	19	2	.10
12	28	1	.08	22	1	.06	19	2	.10
13	28	3	.23	20	1	.05	18	1	.05
14	27	1	.07	24	2	.13	19	1	.05
15	26	1	.07	54	10	1.5	19	1	.05
16	24	1	.06	149	25	10	21	1	.06
17	23	1	.06	127	17	5.8	24	1	.06
18	23	1	.06	94	10	2.5	27	1	.07
19	22	1	.06	102	6	1.7	28	1	.08
20	23	1	.06	85	4	.92	27	1	.07
21	23	1	.06	65	2	.35	26	1	.07
22	23	1	.06	59	1	.16	23	1	.06
23	22	1	.06	125	10	3.4	22	1	.06
24	21	1	.06	96	4	1.0	23	1	.06
25	19	3	.15	73	2	.39	21	1	.06
26	17	2	.09	57	1	.15	20	1	.05
27	16	2	.09	50	2	.27	19	1	.05
28	16	2	.09	45	2	.24	19	1	.05
29	16	2	.09	38	2	.21	21	1	.06
30	15	2	.08	37	2	.20	21	1	.06
31	15	---	---	34	2	.18	---	---	---
TOTAL	826	---	3.39	1627	---	30.61	671	---	2.53
YEAR	244578.0		369856.63						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1975	7825.00	6832.29	760	7590
NOVEMBER ...	20556.00	16197.30	4400	20600
DECEMBER ...	20071.00	14916.80	4620	19500
JANUARY 1976	9884.00	559.38	106	665
FEBRUARY ...	64454.00	290991.41	49200	340000
MARCH	53737.00	26141.00	10700	36800
APRIL	43906.00	13802.00	1640	15400
MAY	17900.00	361.63	2	364
JUNE	3121.00	18.29	0	18
JULY	826.00	3.39	0	3
AUGUST	1627.00	30.61	0	31
SEPTEMBER ..	671.00	2.53	0	3
TOTAL	244578.00	369856.63	71428	440974

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
OCT										
26...	1550	12.0	3850	857	8910	25	35	47	59	68
NOV										
15...	1620	--	5990	1710	27700	17	25	36	47	59
DEC										
05...	1220	--	3640	445	4370	--	--	--	--	--
FEB										
17...	0745	8.0	2050	214	1180	--	--	--	--	--
25...	1650	--	5000	2100	28400	22	30	39	49	60
26...	0735	9.0	12000	3430	111000	17	24	33	43	55
26...	1635	9.0	23500	3250	206000	20	28	37	47	60
27...	0700	8.5	10400	1260	35400	23	32	41	50	59
28...	1650	9.5	7730	731	15300	26	34	44	53	61

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
OCT										
26...	--	74	--	82	--	89	--	95	98	100
NOV										
15...	70	--	79	--	89	--	100	--	--	--
DEC										
05...	--	70	--	78	--	88	--	97	100	--
FEB										
17...	--	61	--	64	--	72	--	90	98	100
25...	--	69	--	80	--	91	--	98	100	--
26...	--	66	--	78	--	91	--	98	100	--
26...	--	71	--	82	--	92	--	98	100	--
27...	--	68	--	78	--	89	--	96	100	--
28...	--	68	--	75	--	85	--	96	100	--

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (CFS)	STREAM WIDTH (FT)	SEDIMENT BEDLOAD DISCHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
OCT								
06...	1455	18.5	--	17	27	.00	--	--
NOV								
04...	1615	--	--	199	58	.00	--	--
DEC								
11...	1315	6.0	5	595	130	27	--	--
JAN								
15...	1400	6.0	33	411	110	42	--	--
FEB								
10...	1740	6.0	--	147	--	.00	--	--
12...	0845	5.5	--	138	56	.00	--	--
MAR								
18...	1445	9.0	5	1620	125	51	1	2
APR								
21...	1545	9.5	6	1710	125	24	1	2
MAY								
26...	1320	--	--	250	66	.00	--	--
JUN								
16...	1220	22.5	--	102	63	.00	--	--
JUL								
29...	1140	25.0	--	16	25	.00	--	--
SEP								
14...	1215	20.5	--	20	23	.00	--	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM
OCT								
06...	--	--	--	--	--	--	--	--
NOV								
04...	--	--	--	--	--	--	--	--
DEC								
11...	9	69	92	99	100	--	--	--
JAN								
15...	--	--	--	--	--	--	--	--
FEB								
10...	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--
MAR								
18...	13	32	43	50	56	71	90	100
APR								
21...	14	45	66	73	77	90	100	--
MAY								
26...	--	--	--	--	--	--	--	--
JUN								
16...	--	--	--	--	--	--	--	--
JUL								
29...	--	--	--	--	--	--	--	--
SEP								
14...	--	--	--	--	--	--	--	--

11474500 NORTH FORK EEL RIVER NEAR MINA, CA

LOCATION.--Lat 39°56'18", long 123°20'36", in SW¼ sec.8 , T.24 N., R.13 W., Mendocino County, on right bank 0.2 mi (0.3 km) upstream from county road bridge, 1.4 mi (2.3 km) upstream from Asbill Creek, and 2 mi (3 km) south of Mina.

DRAINAGE AREA.--248 mi^2 (642 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1953 to September 1976 (discontinued).

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.

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

AVERAGE DISCHARGE.--23 years, 638 ft^3/s (18.07 m^3/s), 462,200 acre-ft/yr (570 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 133,000 ft^3/s (3,770 m^3/s) Dec. 22, 1964, gage height, 34.5 ft (10.52 m) from floodmarks, present site and datum, from rating curve extended above 12,000 ft^3/s (340 m^3/s) on basis of slope-area measurement of maximum flow; minimum, 0.1 ft^3/s (0.003 m^3/s) Aug. 30, 31, 1959.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 8,000 ft^3/s (227 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 26	1500	*18200	515	16.05	4.892
Feb. 29	1415	9070	257	12.30	3.749

Minimum daily discharge, 1.8 ft^3/s (0.051 m^3/s) Oct. 1-6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	159	313	127	56	3680	260	139	43	7.3	2.0	4.5
2	1.8	105	288	116	54	2220	238	137	40	7.3	2.0	4.2
3	1.8	79	213	109	52	1550	222	127	37	7.3	2.0	3.9
4	1.8	64	663	109	50	1260	209	125	35	7.3	2.0	3.6
5	1.8	56	2990	114	49	938	198	118	33	7.1	2.0	3.3
6	1.8	51	1750	137	48	755	209	109	33	6.3	3.5	3.1
7	3.4	233	750	121	47	685	769	103	32	6.8	5.2	3.4
8	3.7	260	479	326	47	619	1720	98	32	6.6	4.3	3.4
9	6.3	147	358	1480	46	560	944	92	32	5.8	3.4	3.1
10	72	619	302	641	46	490	1000	88	32	5.4	3.1	2.8
11	90	454	246	450	46	427	1020	81	32	5.4	3.1	2.7
12	59	280	306	442	46	365	922	77	31	5.3	2.9	2.6
13	36	218	256	362	48	332	803	70	28	5.0	2.7	2.6
14	24	179	218	313	94	306	699	68	26	5.0	3.3	2.5
15	18	1390	189	263	157	288	606	64	23	5.0	7.6	2.4
16	16	1160	173	232	1290	253	494	61	21	4.6	31	2.4
17	14	483	159	213	996	246	431	58	19	4.3	34	2.4
18	15	310	147	194	859	277	431	56	18	4.3	23	2.4
19	14	222	135	167	1070	338	379	56	16	4.0	26	2.6
20	13	222	125	147	888	310	345	52	14	3.8	25	2.6
21	12	222	121	123	594	288	322	49	13	3.7	16	2.6
22	11	179	464	104	452	260	295	56	13	3.7	15	2.6
23	12	159	335	96	360	277	263	44	13	3.7	29	2.6
24	11	137	243	87	303	313	238	44	12	3.4	20	2.6
25	16	121	213	80	1640	423	220	43	11	3.1	13	2.6
26	1270	109	195	74	10200	329	209	43	10	2.9	9.4	2.6
27	306	116	205	69	5070	302	195	41	9.3	2.8	8.2	2.6
28	365	109	173	66	4430	277	179	41	8.7	2.6	7.2	2.6
29	171	96	162	63	5820	256	162	41	8.2	2.6	6.2	2.6
30	769	88	149	60	---	233	149	41	7.6	2.4	5.7	2.6
31	316	---	139	58	---	256	---	43	---	2.1	4.9	---
TOTAL	3654.2	8027	12459	6943	34858	19113	14131	2265	682.8	146.9	322.7	86.5
MEAN	118	268	402	224	1202	617	471	73.1	22.8	4.74	10.4	2.88
MAX	1270	1390	2990	1480	10200	3680	1720	139	43	7.3	34	4.5
MIN	1.8	51	121	58	46	233	149	41	7.6	2.1	2.0	2.4
AC-FT	7250	15920	24710	13770	69140	37910	28030	4490	1350	291	640	172

CAL YR 1975 TOTAL 273981.3 MEAN 751 MAX 20200 MIN 1.8 AC-FT 543400
WTR YR 1976 TOTAL 102689.1 MEAN 281 MAX 10200 MIN 1.8 AC-FT 203700

11474500 NORTH FORK EEL RIVER NEAR MINA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966-67, 1973 to October 1976 (discontinued).
WATER TEMPERATURES: Water years 1973-75.
SEDIMENT RECORDS: Water years 1966-67, 1973 to October 1976 (discontinued).
TURBIDITY: Water year 1967.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1972 to September 1975.
SEDIMENT RECORDS: October 1972 to September 1975.

REVISED RECORDS.--WDR CA-74-P2: 1973.

SUSPENDED-SEDIMENT DISCHARGE, OCTOBER 1975 TO OCTOBER 1976

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT , 1975					
07...	1150	16.5	3.4	1	.01
NOV					
04...	1040	10.5	65	3	.53
DEC					
10...	1215	7.0	302	5	4.1
JAN , 1976					
14...	1510	7.0	310	4	3.3
FEB					
11...	1400	6.0	47	1	.13
MAR					
17...	1345	12.0	246	5	3.3
APR					
20...	1415	15.5	352	11	10
MAY					
27...	1215	19.5	41	1	.11
JUN					
15...	1925	23.5	22	1	.06
JUL					
28...	2030	25.5	2.6	1	.01
OCT					
06...	1620	18.5	4.0	3	.03

11474700 CHAMISE CREEK NEAR ISLAND MOUNTAIN, CA

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^2 (58.5 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to September 1976 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 850 ft (259 m), from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,830 ft^3/s (80.1 m^3/s) Mar. 29, 1974, gage height, 8.81 ft (2.685 m), from rating curve extended above 920 ft^3/s (26.1 m^3/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.37 ft^3/s (0.010 m^3/s) Sept. 9-26, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft^3/s (17 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 26	0830	*1200	34.0	6.34	1.932
Feb. 29	0530	737	20.9	5.53	1.686

Minimum daily discharge, 0.80 ft^3/s (0.023 m^3/s) Aug. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.81	14	16	8.3	4.1	243	19	12	3.7	1.6	.83	1.2
2	.81	9.7	14	7.4	4.0	165	18	12	3.3	1.6	.82	1.1
3	.81	7.7	13	7.1	4.0	129	17	11	3.3	1.5	.81	1.1
4	.81	6.1	76	6.8	4.0	112	16	11	3.3	1.5	.81	1.1
5	.81	5.6	247	11	3.7	100	16	10	3.3	1.5	.81	1.1
6	1.0	5.3	145	9.7	3.5	87	16	10	3.3	1.5	.81	1.1
7	1.0	11	76	8.0	3.5	82	56	9.6	3.3	1.5	.83	1.1
8	1.0	11	50	31	3.5	76	79	8.7	3.3	1.4	.86	1.0
9	1.5	9.0	33	76	3.5	65	56	8.5	3.4	1.3	.86	1.0
10	9.0	58	23	46	2.8	56	82	7.8	3.5	1.3	.86	.96
11	7.7	27	18	35	2.8	48	73	7.4	3.5	1.3	.82	.95
12	4.7	19	21	31	2.8	42	66	7.3	3.2	1.3	.81	.95
13	2.8	14	16	27	4.2	37	59	6.8	3.0	1.3	.81	.95
14	1.7	12	13	24	14	33	49	6.5	2.9	1.3	.80	.95
15	1.7	115	11	20	30	31	41	6.4	2.6	1.3	1.0	.94
16	1.6	66	9.7	18	68	27	36	5.9	2.6	1.2	1.7	.93
17	1.6	35	8.6	16	51	26	32	5.9	2.6	1.2	2.8	.92
18	2.2	24	7.5	14	47	29	30	5.8	2.6	1.3	2.4	.92
19	1.7	18	6.9	12	90	28	27	5.6	2.3	1.4	2.8	.92
20	1.6	24	6.2	9.0	66	23	25	5.3	2.3	1.3	2.8	.93
21	1.3	18	13	8.2	53	21	23	5.0	2.3	1.3	2.4	.94
22	1.3	16	68	7.7	40	21	21	5.0	2.3	1.2	2.0	.94
23	1.3	14	32	7.3	31	20	20	4.7	2.2	1.2	1.8	.92
24	1.3	12	22	6.7	26	22	18	4.7	2.0	1.1	1.7	.90
25	7.1	11	18	6.3	216	22	17	4.7	2.0	1.1	1.7	.88
26	56	10	17	5.9	738	20	17	4.2	1.9	1.0	1.5	.88
27	19	10	15	5.3	359	19	16	4.2	1.9	1.0	1.4	.88
28	15	9.4	13	5.2	350	19	15	4.2	1.6	.96	1.3	.88
29	15	8.6	11	4.6	520	17	14	4.0	1.6	.92	1.2	.88
30	74	8.8	10	4.5	---	16	13	4.0	1.6	.89	1.2	.88
31	24	---	9.4	4.5	---	21	---	4.0	---	.85	1.2	---
TOTAL	260.15	609.2	1039.3	483.5	2745.4	1657	987	212.2	80.7	39.12	42.44	29.10
MEAN	8.39	20.3	33.5	15.6	94.7	53.5	32.9	6.85	2.69	1.26	1.37	.97
MAX	74	115	247	76	738	243	82	12	3.7	1.6	2.8	1.2
MIN	.81	5.3	6.2	4.5	2.8	16	13	4.0	1.6	.85	.80	.88
AC-FT	516	1210	2060	959	5450	3290	1960	421	160	78	84	58

CAL YR 1975 TOTAL 19568.12 MEAN 53.6 MAX 1100 MIN .80 AC-FT 38810
WTR YR 1976 TOTAL 8185.11 MEAN 22.4 MAX 738 MIN .80 AC-FT 16240

NOTE.--No gage-height record July 19 to Sept. 30.

11474700 CHAMISE CREEK NEAR ISLAND MOUNTAIN, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to September 1976 (discontinued).
WATER TEMPERATURES: Water years 1973-75.
SEDIMENT RECORDS: Water years 1973 to September 1976 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1972 to September 1975.
SEDIMENT RECORDS: October 1972 to September 1975.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
OCT									
09...	1730	14.5	1.6	10	.04	--	--	--	--
NOV									
07...	1350	13.5	17	16	.73	--	--	--	--
DEC									
12...	1215	7.5	21	6	.34	--	--	--	--
JAN									
21...	1345	6.5	8.4	3	.07	--	--	--	--
MAR									
03...	1520	9.0	133	156	56	94	96	98	100
24...	1605	12.0	25	6	.40	--	--	--	--
APR									
28...	1245	15.0	15	5	.20	--	--	--	--
JUN									
17...	1220	22.0	2.6	9	.06	--	--	--	--
AUG									
06...	1325	20.0	.81	4	.01	--	--	--	--
SEP									
16...	1110	18.5	.93	6	.02	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (CFS)	STREAM WIDTH (FT)	SEDIMENT BEDLOAD DISCHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
OCT								
09...	1715	14.5	--	1.6	12	.00	--	--
NOV								
07...	1310	13.5	--	17	33	.00	--	--
DEC								
12...	1205	7.5	--	21	38	.00	--	--
JAN								
21...	1315	6.5	--	8.4	37	.00	--	--
MAR								
03...	1515	9.0	28	133	57	5.3	1	3
JUN								
17...	1220	22.0	--	2.6	26	.00	--	--
AUG								
06...	1325	20.0	--	.81	22	.00	--	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
OCT							
09...	--	--	--	--	--	--	--
NOV							
07...	--	--	--	--	--	--	--
DEC							
12...	--	--	--	--	--	--	--
JAN							
21...	--	--	--	--	--	--	--
MAR							
03...	11	21	45	71	86	96	100
JUN							
17...	--	--	--	--	--	--	--
AUG							
06...	--	--	--	--	--	--	--

11475000 EEL RIVER AT FORT SEWARD, CA

LOCATION.--Lat 40°13'05", long 123°37'54", in SE¼NE¼ sec.8, T.3 S., R.5 E., Humboldt County, on right bank at downstream side of bridge, 1.0 mi (1.6 km) southeast of Fort Seward, 1.9 mi (3.1 km) upstream from Dobbyn Creek, and 11.8 mi (19.0 km) northeast of Garberville.

DRAINAGE AREA.--2,107 mi^2 (5,457 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1955 to current year. Prior to October 1965, published as "at Alderpoint."

GAGE.--Water-stage recorder. Datum of gage is 217.26 ft (66.221 m) above mean sea level. Prior to Dec. 22, 1964, at site 7.5 mi (12.1 km) upstream at datum 46.55 ft (14.188 m) higher. Feb. 2 to Sept. 30, 1965, at site 7.7 mi (12.4 km) upstream at datum 49.42 ft (15.063 m) higher.

REMARKS.--Records good. Flow slightly regulated by Lake Pillsbury (station 11470000) 99 mi (159 km) upstream and by diversion through Potter Valley powerhouse (station 11471000).

AVERAGE DISCHARGE.--21 years, 4,856 ft^3/s (137.5 m^3/s), 3,518,000 acre-ft/yr (4.34 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 561,000 ft^3/s (15,900 m^3/s) Dec. 22, 1964, gage height, 87.2 ft (26.58 m) from floodmarks, site and datum then in use, from rating curve extended above 110,000 ft^3/s (3,120 m^3/s) on basis of slope-area measurement at gage height 72.5 ft (22.10 m); minimum daily, 10 ft^3/s (0.28 m^3/s) Aug. 30 to Sept. 5, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 41,000 ft^3/s (1,160 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 26	1645	*57200	1620	26.72	8.144
Feb. 29	1900	45400	1290	24.39	7.434

Minimum daily discharge, 25 ft^3/s (0.71 m^3/s) Aug. 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	1600	1040	697	442	26700	1690	1450	358	98	28	67
2	38	951	1290	615	429	15400	1520	1530	354	94	27	59
3	39	671	1180	573	414	11400	1410	1530	337	91	27	56
4	39	519	2240	563	401	8750	1350	1430	316	89	27	51
5	39	427	12300	600	384	6690	1260	1390	303	89	25	48
6	40	378	12400	637	371	5420	1340	1350	289	86	25	47
7	40	531	6170	622	356	4630	1710	1310	277	83	44	43
8	41	1130	3720	1040	344	4160	8080	1240	270	80	52	40
9	45	1120	2630	3950	345	3670	6830	1270	261	78	52	38
10	90	1650	2100	3430	344	3260	5380	1250	260	73	54	38
11	197	2440	1730	2190	341	2950	7570	1180	258	71	54	38
12	344	1510	1680	1870	328	2660	6930	1090	257	67	52	35
13	286	1070	1750	1690	330	2380	6110	979	243	66	47	35
14	216	874	1480	1450	429	2210	5080	961	228	63	51	32
15	170	3570	1150	1280	1630	2080	4240	933	217	60	58	26
16	145	10100	999	1150	3650	1980	3730	826	203	57	59	26
17	127	4600	930	1070	6150	1960	3140	740	192	57	99	26
18	123	2490	855	1010	4380	2180	2900	687	181	55	227	26
19	114	1740	776	936	5260	2560	2860	642	172	52	199	26
20	104	1580	704	839	6090	2220	2730	605	162	48	167	26
21	100	1470	701	759	3890	1970	2740	568	153	46	162	32
22	96	1220	1660	701	2820	1910	2600	526	145	44	139	38
23	90	1050	2140	671	2230	1920	2430	481	141	43	123	38
24	85	913	1490	637	1870	1910	2320	454	136	41	123	38
25	166	805	1160	610	6310	2250	2250	442	131	41	164	38
26	2680	733	1030	567	42800	2030	2130	419	126	40	129	35
27	3490	706	957	523	38700	1820	1860	402	121	37	107	35
28	1810	687	936	507	29100	1720	1740	378	113	34	95	32
29	1120	645	868	489	33000	1610	1590	362	107	33	83	32
30	2250	604	836	470	---	1480	1470	360	101	31	78	32
31	3430	---	770	454	---	1500	---	362	---	29	72	---
TOTAL	17593	47784	69672	32600	193138	133380	96990	27147	6412	1876	2649	1133
MEAN	568	1593	2247	1052	6660	4303	3233	876	214	60.5	85.5	37.8
MAX	3490	10100	12400	3950	42800	26700	8080	1530	358	98	227	67
MIN	38	378	701	454	328	1480	1260	360	101	29	25	26
AC-FT	34900	94780	138200	64660	383100	264600	192400	53850	12720	3720	5250	2250

CAL YR 1975 TOTAL 1987364 MEAN 5445 MAX 96100 MIN 31 AC-FT 3942000
WTR YR 1976 TOTAL 630374 MEAN 1722 MAX 42800 MIN 25 AC-FT 1250000

11475000 EEL RIVER AT FORT SEWARD, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1961 to current year.
CHEMICAL ANALYSES: Water years 1972-75.
WATER TEMPERATURES: Water years 1961 to current year.
SEDIMENT RECORDS: Water years 1966 to September 1976 (discontinued).
TURBIDITY: Water years 1966-68, 1971-73.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1960 to current year.
SEDIMENT RECORDS: October 1965 to September 1976 (discontinued).

INSTRUMENTATION.--Temperature recorder since November 1960.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1961-64, 1966-71, 1973-75), 34.5°C June 25, 1968; minimum (water years 1961-65, 1966-76), 0.0°C Dec. 14-17, 1967.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 13,900 mg/L Jan. 4, 1966; minimum daily mean, 1 mg/L on many days in 1965-76.
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.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Minimum, 5.5°C Dec. 21.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,190 mg/L Feb. 26; minimum daily mean, 1 mg/L on many days.
SEDIMENT DISCHARGE: Maximum daily, 376,000 tons (341,000 tonnes) Feb. 26; minimum daily, 0.07 ton (0.06 tonne) Sept. 18-20.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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	--	19.5	13.0	--	11.0	8.5	--	7.5	7.5	--	6.5	8.0	--	6.5	8.0	--	6.5
2	21.5	--	19.5	14.0	--	11.0	9.5	--	8.5	6.5	--	6.0	9.0	--	7.0	6.5	--	6.5
3	21.5	--	19.5	14.0	--	13.0	9.5	--	8.5	6.5	--	6.0	9.5	--	7.0	7.0	--	6.5
4	22.5	--	19.5	14.0	--	13.0	9.5	--	8.5	6.5	--	6.0	7.5	--	6.5	7.5	--	6.5
5	22.5	--	19.5	15.0	--	14.0	9.5	--	9.0	7.0	--	6.5	7.5	--	6.5	8.0	--	6.5
6	21.0	--	19.5	--	--	--	10.0	--	9.0	7.0	--	6.5	6.5	--	6.5	8.5	--	6.5
7	22.0	--	19.0	13.0	--	12.0	9.5	--	8.5	6.5	--	6.5	6.5	--	6.5	9.0	--	7.5
8	19.0	--	18.0	13.0	--	10.5	9.5	--	8.5	7.5	--	6.5	6.5	--	6.5	10.0	--	8.0
9	18.0	--	17.0	10.5	--	10.0	9.5	--	7.5	8.0	--	7.0	7.0	--	6.5	10.5	--	8.5
10	17.0	--	16.0	10.5	--	9.0	8.5	--	7.5	7.5	--	6.5	7.5	--	6.5	11.5	--	9.0
11	17.0	--	16.0	10.0	--	9.0	8.5	--	7.5	6.5	--	6.5	8.0	--	6.5	10.5	--	8.5
12	17.5	--	16.0	10.0	--	8.5	8.5	--	7.5	7.0	--	6.5	9.0	--	8.5	11.5	--	8.5
13	18.0	--	17.0	10.0	--	9.0	8.0	--	7.0	7.5	--	6.5	9.0	--	7.5	12.0	--	9.0
14	19.0	--	17.0	10.0	--	9.5	7.5	--	6.5	8.0	--	6.5	7.5	--	7.0	12.0	--	9.5
15	19.0	--	17.0	11.0	--	10.0	7.0	--	6.0	8.0	--	7.5	7.5	--	7.0	12.5	--	10.0
16	19.0	--	17.0	11.0	--	10.0	6.5	--	6.5	8.5	--	7.5	8.0	--	7.0	13.5	--	11.0
17	19.5	--	17.0	10.0	--	8.0	6.5	--	6.5	8.5	--	7.5	8.5	--	7.5	14.0	--	12.0
18	19.5	--	17.0	8.0	--	7.0	7.0	--	6.5	8.5	--	7.5	9.0	--	7.5	12.5	--	10.0
19	19.5	--	17.0	8.0	--	7.0	6.5	--	6.0	8.5	--	7.0	9.0	--	7.0	11.5	--	9.0
20	20.0	--	17.5	8.0	--	7.0	7.0	--	6.0	8.0	--	6.5	8.0	--	6.5	12.0	--	9.5
21	17.5	--	16.0	8.0	--	7.0	6.5	--	5.5	7.5	--	6.5	8.0	--	6.5	13.0	--	10.5
22	18.0	--	16.0	8.0	--	7.0	6.5	--	6.0	7.0	--	6.5	8.5	--	7.0	11.5	--	9.5
23	17.0	--	15.0	8.5	--	8.0	7.5	--	6.5	7.5	--	6.5	8.5	--	7.5	12.0	--	9.5
24	16.0	--	14.0	8.0	--	7.5	7.5	--	6.5	7.5	--	6.5	9.0	--	7.5	11.5	--	9.5
25	14.5	--	13.0	8.5	--	7.5	7.5	--	6.5	7.5	--	6.5	8.5	--	8.0	12.0	--	9.0
26	14.0	--	12.0	8.0	--	7.5	7.5	--	7.0	6.5	--	6.5	9.5	--	8.5	11.0	--	8.5
27	13.5	--	13.0	8.0	--	7.5	8.5	--	7.5	6.5	--	6.5	9.5	--	8.5	9.5	--	8.0
28	14.0	--	12.5	8.5	--	7.0	8.5	--	7.5	6.5	--	6.5	9.5	--	9.0	11.5	--	9.0
29	13.5	--	12.5	7.5	--	6.5	8.5	--	7.5	6.5	--	6.0	9.0	--	8.0	13.5	--	9.5
30	14.0	--	12.0	7.5	--	6.5	8.5	--	7.0	6.5	--	6.0	--	--	--	14.5	--	10.5
31	13.0	--	11.5	--	--	--	7.5	--	6.5	7.0	--	6.5	--	--	--	13.0	--	10.0
MONTH	22.5	--	11.5	15.0	--	6.5	10.0	--	5.5	8.5	--	6.0	9.5	--	6.5	14.5	--	6.5

11475000 EEL RIVER AT FORT SEWARD, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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	12.5	-- 10.0		18.5	-- 15.5		19.5	-- 17.0		--	-- --		--	-- --		26.0	-- 21.5	
2	12.5	-- 10.0		19.5	-- 15.5		20.5	-- 17.5		--	23.0 --		--	25.5 --		25.0	-- 21.0	
3	11.0	-- 10.0		19.0	-- 15.5		20.0	-- 18.0		--	-- --		--	-- --		25.5	-- 20.0	
4	15.0	-- 10.0		19.0	-- 16.0		--	-- --		--	-- --		--	23.5 --		25.5	-- 21.0	
5	13.0	-- 11.0		18.5	-- 15.5		--	-- --		--	23.0 --		--	25.5 --		25.0	-- 21.0	
6	13.0	-- 11.0		18.5	-- 14.5		--	-- --		--	-- --		--	-- --		24.0	-- 21.0	
7	11.0	-- 9.0		19.5	-- 15.5		--	-- --		--	25.0 --		--	-- --		23.5	-- 19.0	
8	10.0	-- 8.5		21.0	-- 17.0		--	-- --		--	-- --		--	25.5 --		24.0	-- 18.0	
9	10.0	-- 9.0		22.5	-- 18.0		--	17.5 --		--	-- --		--	-- --		24.0	-- 19.5	
10	9.5	-- 7.5		22.0	-- 17.0		--	-- --		--	-- --		--	-- --		22.5	-- 19.5	
11	9.5	-- 7.5		21.5	-- 17.5		--	17.5 --		--	25.0 --		--	-- --		23.0	-- 19.5	
12	9.5	-- 7.5		22.0	-- 17.5		--	-- --		--	-- --		--	-- --		23.0	-- 19.5	
13	10.5	-- 9.5		23.0	-- 19.5		--	-- --		--	-- --		--	-- --		22.5	-- 18.5	
14	12.5	-- 10.0		22.5	-- 18.5		--	-- --		--	-- --		--	20.5 --		23.0	-- 19.0	
15	12.0	-- 9.0		22.5	-- 18.0		--	-- --		--	-- --		--	-- --		21.5	-- 18.0	
16	10.5	-- 9.5		22.0	-- 18.5		--	23.0 --		--	-- --		--	20.0 --		20.5	-- 18.5	
17	11.5	-- 9.5		20.5	-- 17.5		--	24.0 --		--	-- --		--	-- --		22.5	-- 18.0	
18	13.5	-- 9.5		20.0	-- 16.5		--	23.0 --		--	22.0 --		--	-- --		22.0	-- 18.5	
19	14.5	-- 11.5		20.0	-- 16.5		--	-- --		--	-- --		--	-- --		22.5	-- 18.5	
20	15.5	-- 12.0		20.0	-- 16.5		--	-- --		--	-- --		--	-- --		22.0	-- 19.5	
21	15.5	-- 12.5		21.0	-- 17.0		--	-- --		--	22.0 --		--	24.0 --		22.5	-- 19.0	
22	15.5	-- 13.5		20.5	-- 17.5		--	-- --		--	-- --		--	-- --		22.5	-- 18.5	
23	16.0	-- 14.5		20.5	-- 17.0		--	-- --		--	-- --		--	-- --		22.5	-- 18.0	
24	16.5	-- 12.5		21.0	-- 18.0		--	-- --		--	25.0 --		25.0	-- 22.0		22.5	-- 17.5	
25	15.5	-- 12.0		21.5	-- 18.5		--	21.5 --		--	-- --		24.0	-- 21.0		21.5	-- 17.5	
26	14.5	-- 12.0		21.5	-- 18.0		--	-- --		--	-- --		23.5	-- 19.5		21.0	-- 17.0	
27	15.5	-- 13.0		21.0	-- 19.0		--	-- --		--	-- --		24.0	-- 19.5		18.5	-- 17.5	
28	16.5	-- 12.5		20.0	-- 17.0		--	-- --		--	-- --		25.0	-- 21.0		20.0	-- 17.5	
29	15.5	-- 11.0		18.5	-- 18.0		--	-- --		--	-- --		26.0	-- 22.0		21.0	-- 17.0	
30	17.5	-- 13.5		19.0	-- 17.5		--	-- --		--	28.0 --		27.0	-- 22.0		21.0	-- 18.0	
31	--	-- --		18.5	-- 17.0		--	-- --		--	-- --		27.0	-- 23.0		--	-- --	
MONTH	17.5	-- 7.5		23.0	-- 14.5		--	-- --		--	-- --		--	-- --		26.0	-- 17.0	

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	39	1	.11	1600	37	160	1040	38	107
2	38	2	.21	951	20	51	1290	26	91
3	39	2	.21	671	13	24	1180	10	32
4	39	2	.21	519	7	9.8	2240	220	2610
5	39	1	.11	427	5	5.8	12300	1200	41800
6	40	1	.11	378	4	4.1	12400	642	23100
7	40	1	.11	531	6	8.6	6170	200	3330
8	41	1	.11	1130	35	117	3720	89	894
9	45	2	.24	1120	18	54	2630	38	270
10	90	4	.97	1650	43	244	2100	19	108
11	197	20	11	2440	71	468	1730	14	65
12	344	8	7.4	1510	23	94	1680	24	109
13	286	6	4.6	1070	8	23	1750	15	71
14	216	4	2.3	874	7	17	1480	11	44
15	170	3	1.4	3570	462	7450	1150	8	25
16	145	2	.78	10100	972	28500	999	7	19
17	127	2	.69	4600	190	2360	930	6	15
18	123	2	.66	2490	64	430	855	5	12
19	114	2	.62	1740	27	127	776	5	10
20	104	2	.56	1580	18	77	704	4	7.6
21	100	2	.54	1470	12	48	701	9	17
22	96	2	.52	1220	8	26	1660	67	324
23	90	3	.73	1050	6	17	2140	46	266
24	85	3	.69	913	5	12	1490	16	64
25	166	3	1.3	805	4	8.7	1160	10	31
26	2680	309	3210	733	3	5.9	1030	7	19
27	3490	423	4500	706	6	11	957	8	21
28	1810	94	459	687	5	9.3	936	9	23
29	1120	30	91	645	4	7.0	868	5	12
30	2250	230	1760	604	4	6.8	836	5	11
31	3430	185	1710	---	---	---	770	4	8.3
TOTAL	17593	---	11766.18	47784	---	40376.0	69672	---	73515.9

11475000 EEL RIVER AT FORT SEWARD, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	697	4	7.5	442	2	2.4	26700	1090	83600
2	615	4	6.6	429	4	4.6	15400	570	23700
3	573	3	4.6	414	4	4.5	11400	350	10800
4	563	2	3.0	401	5	5.4	8750	252	5950
5	600	9	15	384	4	4.1	6690	160	2890
6	637	11	19	371	3	3.0	5420	113	1650
7	622	10	17	356	3	2.9	4630	83	1040
8	1040	65	277	344	2	1.9	4160	67	753
9	3950	335	3610	345	2	1.9	3670	52	515
10	3430	116	1160	344	2	1.9	3260	40	352
11	2190	35	207	341	1	.92	2950	32	255
12	1870	17	86	328	1	.89	2660	27	194
13	1690	13	59	330	4	3.6	2380	23	148
14	1450	9	35	429	10	13	2210	19	113
15	1280	7	24	1630	76	360	2080	15	84
16	1150	6	19	3650	284	3760	1980	12	64
17	1070	4	12	6150	267	4650	1960	10	53
18	1010	5	14	4380	100	1180	2180	20	118
19	936	4	10	5260	189	3030	2560	26	180
20	839	3	6.8	6090	160	2630	2220	17	102
21	759	4	8.2	3890	47	494	1970	12	64
22	701	3	5.7	2820	32	244	1910	10	52
23	671	3	5.4	2230	21	126	1920	9	47
24	637	3	5.2	1870	14	71	1910	13	67
25	610	3	4.9	6310	700	23900	2250	17	103
26	567	4	6.1	42800	3190	376000.0	2030	9	49
27	523	9	13	38700	2060	218000.0	1820	7	34
28	507	5	6.8	29100	1500	118000.0	1720	8	37
29	489	3	4.0	33000	1770	171000.0	1610	5	22
30	470	3	3.8	---	---	---	1480	4	16
31	454	3	3.7	---	---	---	1500	5	20
TOTAL	32600	---	5659.3	193138	---	923496.01	133380	---	133072

	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	1690	8	37	1450	6	23	358	2	1.9
2	1520	6	25	1530	8	33	354	2	1.9
3	1410	4	15	1530	6	25	337	2	1.8
4	1350	4	15	1430	4	15	316	2	1.7
5	1260	5	17	1390	5	19	303	3	2.5
6	1340	5	18	1350	5	18	289	3	2.3
7	1710	67	438	1310	5	18	277	2	1.5
8	8080	647	14300	1240	5	17	270	3	2.2
9	6830	198	3650	1270	5	17	261	2	1.4
10	5380	132	1990	1250	4	13	260	2	1.4
11	7570	162	3350	1180	4	13	258	2	1.4
12	6930	145	2730	1090	4	12	257	2	1.4
13	6110	95	1570	979	4	11	243	2	1.3
14	5080	65	892	961	4	10	228	2	1.2
15	4240	45	515	933	3	7.6	217	3	1.8
16	3730	36	363	826	3	6.7	203	7	3.8
17	3140	28	237	740	3	6.0	192	4	2.1
18	2900	22	172	687	3	5.6	181	2	.98
19	2860	20	154	642	3	5.2	172	2	.93
20	2730	30	221	605	2	3.3	162	2	.87
21	2740	20	148	568	2	3.1	153	2	.83
22	2600	16	112	526	2	2.8	145	2	.78
23	2430	12	79	481	2	2.6	141	2	.76
24	2320	12	75	454	2	2.5	136	2	.73
25	2250	13	79	442	2	2.4	131	2	.71
26	2130	13	75	419	2	2.3	126	2	.68
27	1860	13	65	402	1	1.1	121	2	.65
28	1740	10	47	378	1	1.0	113	2	.61
29	1590	7	30	362	1	.98	107	2	.58
30	1470	6	24	360	1	.97	101	2	.55
31	---	---	---	362	2	2.0	---	---	---
TOTAL	96990	---	31443	27147	---	300.15	6412	---	41.26

11475000 EEL RIVER AT FORT SEWARD, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	98	2	.53	28	2	.15	67	2	.36
2	94	2	.51	27	3	.22	59	2	.32
3	91	3	.74	27	2	.15	56	7	1.1
4	89	2	.48	27	3	.22	51	3	.41
5	89	1	.24	25	3	.20	48	3	.39
6	86	1	.23	25	3	.20	47	3	.38
7	83	2	.45	44	3	.36	43	3	.35
8	80	2	.43	52	1	.14	40	3	.32
9	78	2	.42	52	2	.28	38	3	.31
10	73	2	.39	54	2	.29	38	3	.31
11	71	3	.58	54	2	.29	38	3	.31
12	67	2	.36	52	2	.28	35	2	.19
13	66	2	.36	47	1	.13	35	2	.19
14	63	2	.34	51	2	.28	32	2	.17
15	60	2	.32	58	2	.31	26	2	.14
16	57	2	.31	59	2	.32	26	2	.14
17	57	1	.15	99	3	.80	26	2	.14
18	55	1	.15	227	8	4.9	26	1	.07
19	52	1	.14	199	6	3.2	26	1	.07
20	48	1	.13	167	3	1.4	26	1	.07
21	46	1	.12	162	3	1.3	32	2	.17
22	44	1	.12	139	3	1.1	38	3	.31
23	43	1	.12	123	3	1.0	38	3	.31
24	41	1	.11	123	4	1.3	38	3	.31
25	41	2	.22	164	3	1.3	38	2	.21
26	40	2	.22	129	2	.70	35	2	.19
27	37	2	.20	107	2	.58	35	2	.19
28	34	2	.18	95	2	.51	32	2	.17
29	33	2	.18	83	2	.45	32	2	.17
30	31	2	.17	78	2	.42	32	2	.17
31	29	2	.16	72	2	.39	---	---	---
TOTAL	1876	---	9.06	2649	---	23.17	1133	---	7.94
YEAR	630374.0		1219709.97						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1975	17593.00	11766.18	630	12400
NOVEMBER ...	47784.00	40376.00	3210	43600
DECEMBER ...	69672.00	73515.90	7650	81200
JANUARY 1976	32600.00	5659.30	632	6290
FEBRUARY ...	193138.00	923496.01	54800	978000
MARCH	133380.00	133072.00	21700	155000
APRIL	96990.00	31443.00	9180	40600
MAY	27147.00	300.15	37	337
JUNE	6412.00	41.26	0	41
JULY	1876.00	9.06	0	9
AUGUST	2649.00	23.17	0	23
SEPTEMBER ..	1133.00	7.94	0	8
TOTAL	630374.00	1219709.97	97839	1317508

11475000 EEL RIVER AT FORT SEWARD, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
OCT										
27...	0940	--	3560	440	4230	36	54	74	94	99
NOV										
16...	0820	--	11600	1100	34500	27	37	51	67	80
DEC										
05...	1420	--	13800	1210	45100	28	37	48	60	73
07...	1630	--	5500	151	2240	--	--	--	--	--
22...	1300	--	1910	98	505	--	--	--	--	--
JAN										
09...	1730	--	4620	315	3930	44	53	65	78	88
10...	1700	7.5	2990	79	638	--	--	--	--	--
FEB										
16...	1135	8.0	2950	114	908	--	--	--	--	--
26...	0830	9.5	36900	3190	318000	22	31	41	52	65
26...	1250	--	48400	3860	504000	19	27	36	47	60
26...	1750	--	57000	3490	537000	21	29	39	52	66
27...	0815	9.5	36200	1900	186000	26	34	44	53	64
28...	0745	9.5	31700	1640	140000	19	25	32	40	47
MAR										
01...	0830	7.5	28800	1140	88600	25	33	42	53	65
03...	0820	--	11900	365	11700	--	--	--	--	--
05...	1255	--	6810	153	2810	--	--	--	--	--
05...	1530	--	6540	156	2760	--	--	--	--	--
APR										
27...	1440	13.0	1880	13	66	--	--	--	--	--

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
OCT									
27...	--	100	--	--	--	--	--	--	--
NOV									
16...	--	90	--	95	--	100	--	--	--
DEC									
05...	--	83	--	92	--	99	--	100	--
07...	--	88	--	97	--	100	--	--	--
22...	--	98	--	100	--	--	--	--	--
JAN									
09...	--	92	--	99	--	100	--	--	--
10...	--	97	--	100	--	--	--	--	--
FEB									
16...	--	93	--	96	--	98	--	100	--
26...	76	--	89	--	99	--	100	--	--
26...	--	73	--	88	--	98	--	100	--
26...	--	78	--	91	--	99	--	100	--
27...	--	77	--	88	--	96	--	100	--
28...	--	55	--	63	--	71	--	74	100
MAR									
01...	--	77	--	88	--	97	--	100	--
03...	--	81	--	89	--	96	--	100	--
05...	--	80	--	82	--	88	--	96	100
05...	--	79	--	85	--	92	--	96	100
APR									
27...	--	88	--	95	--	100	--	--	--

11475000 EEL RIVER AT FORT SEWARD, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (CFS)	STREAM WIDTH (FT)	SEDIMENT BEDLOAD DISCHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
OCT							
09...	1400	17.0	--	44	25	.00	--
DEC							
15...	1620	6.0	3	1090	180	20	2
JAN							
22...	1530	7.0	--	713	158	.00	--
MAR							
05...	1500	8.0	4	6440	229	424	--
24...	1245	11.0	3	1870	180	87	1
APR							
27...	1440	13.0	--	1880	200	.00	--
JUN							
03...	1225	19.0	--	327	149	.00	--
16...	1500	23.0	--	201	125	.00	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
OCT							
09...	--	--	--	--	--	--	--
DEC							
15...	41	78	91	99	100	--	--
JAN							
22...	--	--	--	--	--	--	--
MAR							
05...	3	14	46	75	91	97	100
24...	24	90	94	98	99	100	--
APR							
27...	--	--	--	--	--	--	--
JUN							
03...	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--

11475100 DOBBYN CREEK NEAR FORT SEWARD, CA

LOCATION.--Lat 40°14'14", long 123°38'05", in NW¼NE¼ sec.5, T.3 S., R.5 E., Humboldt County, on left bank at downstream side of county road bridge, 0.2 mi (0.3 km) upstream from Conley Creek, 1.2 mi (1.9 km) northeast of Fort Seward, and 1.6 mi (2.6 km) upstream from mouth.

DRAINAGE AREA.--61.4 mi^2 (159.0 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to September 1976 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 250 ft (76 m), from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,200 ft^3/s (289 m^3/s) Dec. 17, 1972, gage height, 11.04 ft (3.365 m), from rating curve extended above 1,200 ft^3/s (34.0 m^3/s); minimum daily, 6.5 ft^3/s (0.18 m^3/s) Oct. 2-5, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft^3/s (113 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 26	0930	*6820	193	†10.26	3.127
Feb. 29	0615	4320	122	9.51	2.899

Minimum daily discharge, 6.5 ft^3/s (0.18 m^3/s) Oct. 2-5, 1975.

† From crest-stage gage.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	71	184	91	50	2040	145	80	34	16	9.2	10
2	6.5	53	126	89	49	932	135	77	30	16	9.2	9.2
3	6.5	43	104	89	45	600	128	75	29	17	9.2	8.6
4	6.5	36	624	89	44	470	124	71	30	17	9.2	8.6
5	6.5	32	1530	94	41	400	120	68	30	16	9.2	8.6
6	6.8	31	822	94	38	320	122	67	29	15	9.2	8.6
7	7.7	161	351	93	37	265	240	65	29	15	9.4	8.0
8	7.7	100	244	392	36	240	272	62	29	15	9.6	8.0
9	12	72	205	507	35	220	208	58	30	15	9.6	8.0
10	57	217	181	240	33	200	281	57	33	14	9.6	7.7
11	33	128	165	196	32	175	272	55	31	13	9.6	7.7
12	20	94	179	179	31	155	233	52	29	14	9.0	7.7
13	15	77	155	155	40	140	208	49	28	13	9.0	7.7
14	12	68	145	135	90	130	187	50	26	12	9.0	7.7
15	11	680	137	120	180	125	181	48	25	12	9.0	7.7
16	11	317	133	110	400	120	165	44	24	12	12	7.2
17	9.9	199	128	100	260	112	155	44	24	13	16	7.2
18	15	142	124	93	160	130	155	45	23	12	22	7.2
19	12	114	118	85	140	145	145	43	22	12	18	7.2
20	11	135	116	83	130	135	135	42	21	12	22	7.2
21	10	112	122	82	94	130	131	39	22	11	22	7.2
22	11	96	179	81	77	135	126	38	22	11	20	7.2
23	11	87	131	80	62	145	118	38	21	11	18	7.2
24	11	79	120	78	54	196	114	37	20	10	16	7.2
25	130	72	118	74	1400	181	108	38	19	10	14	6.8
26	361	71	116	69	5500	162	96	37	18	9.8	13	6.8
27	137	77	114	65	2540	152	93	34	18	9.6	12	6.8
28	131	66	108	57	4090	155	89	35	17	9.2	12	6.8
29	80	59	106	53	4260	142	87	36	16	9.2	11	6.8
30	244	79	100	52	---	133	84	36	16	9.2	11	6.8
31	104	---	94	51	---	160	---	37	---	9.2	10	---
TOTAL	1503.9	3568	7079	3776	19948	8745	4657	1557	745	390.2	388.0	229.4
MEAN	48.5	119	228	122	688	282	155	50.2	24.8	12.6	12.5	7.65
MAX	361	680	1530	507	5500	2040	281	80	34	17	22	10
MIN	6.5	31	94	51	31	112	84	34	16	9.2	9.0	6.8
AC-FT	2980	7080	14040	7490	39570	17350	9240	3090	1480	774	770	455

CAL YR 1975	TOTAL	111186.5	MEAN 305	MAX 6790	MIN 6.5	AC-FT	220500	
WTR YR 1976	TOTAL	52586.5	MEAN 144	MAX 5500	MIN 6.5	AC-FT	104300	

NOTE.--No gage-height record Feb. 10-26, July 20 to Sept. 30.

11475100 DOBBYN CREEK NEAR FORT SEWARD, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to September 1976 (discontinued).
WATER TEMPERATURES: Water years 1973 to September 1976 (discontinued).
SEDIMENT RECORDS: Water years 1973 to September 1976 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1972 to September 1976 (discontinued).
SEDIMENT RECORDS: October 1972 to September 1976 (discontinued).

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 19,200 mg/L Jan. 16, 1974; minimum daily mean, 1 mg/L on several days in 1974-76.
SEDIMENT DISCHARGE: Maximum daily, 279,000 tons (253,000 tonnes) Jan. 16, 1974; minimum daily, 0.02 ton (0.02 tonne) on several days in 1974 and 1975.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,400 mg/L Feb. 26; minimum daily mean, 1 mg/L on many days during October and May.
SEDIMENT DISCHARGE: Maximum daily, 50,500 tons (45,800 tonnes) Feb. 26; minimum daily, 0.02 ton (0.02 tonne) on several days during October.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	9.0	---	10.0	8.0	---	17.0	18.0	---	---	---
2	---	---	---	---	9.0	8.0	10.0	13.0	---	---	---	---
3	---	15.0	---	---	9.0	8.0	---	17.0	20.0	---	---	---
4	---	---	10.0	8.0	7.0	6.0	---	---	---	---	20.5	---
5	---	---	11.0	8.0	6.0	---	---	---	---	---	---	---
6	---	11.0	---	8.0	7.0	---	10.0	16.0	---	---	---	---
7	---	---	10.0	8.0	---	9.0	10.0	---	---	---	---	---
8	---	---	10.0	8.0	7.0	11.0	10.0	---	---	24.0	---	---
9	10.0	---	10.0	8.0	8.0	11.0	8.0	---	17.0	---	---	---
10	---	---	9.0	7.0	8.0	---	8.0	---	---	---	---	---
11	---	---	9.0	7.0	9.0	10.0	8.0	---	---	---	---	---
12	---	10.0	8.0	---	11.0	11.0	9.0	16.0	---	---	---	---
13	---	---	---	---	9.0	---	---	---	---	22.0	---	---
14	---	8.0	---	9.0	8.0	12.0	---	---	24.0	---	---	---
15	16.0	11.0	6.0	9.0	8.0	---	---	---	---	---	---	23.5
16	---	9.0	---	10.0	7.0	14.0	---	16.0	21.5	---	---	---
17	17.0	8.0	---	10.0	7.0	14.0	---	16.0	28.0	---	---	---
18	---	7.0	7.0	10.0	9.0	9.0	---	16.0	---	---	---	---
19	---	7.0	---	10.0	8.0	9.0	---	16.0	---	---	---	---
20	---	7.0	---	10.0	8.0	---	16.0	---	---	---	---	---
21	16.0	---	7.0	9.0	8.0	13.0	8.0	---	---	---	---	---
22	---	7.0	7.0	10.0	10.0	11.0	16.0	---	24.0	---	---	---
23	---	---	---	8.0	10.0	11.0	---	---	---	---	---	---
24	14.0	9.0	---	8.0	9.0	9.0	16.0	---	---	---	---	---
25	---	---	---	5.0	9.0	9.0	---	---	---	---	---	---
26	9.0	---	---	8.0	9.0	9.0	---	---	---	---	---	---
27	9.0	---	---	7.0	9.0	---	15.5	17.0	---	---	---	---
28	9.0	---	---	7.0	---	---	16.0	---	27.0	---	---	---
29	---	---	10.0	7.0	9.0	13.0	17.0	---	---	---	---	---
30	11.0	9.0	7.0	9.0	---	14.0	17.0	---	24.0	---	---	---
31	---	---	---	---	---	12.0	---	---	---	---	---	---
MONTH	---	---	---	8.5	8.5	---	---	---	---	---	---	---

11475100 DOBBYN CREEK NEAR FORT SEWARD, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	6.8	1	.02	71	20	3.8	184	155	77
2	6.5	1	.02	53	10	1.4	126	50	17
3	6.5	1	.02	43	6	.70	104	15	4.2
4	6.5	1	.02	36	5	.49	624	1290	5000
5	6.5	1	.02	32	5	.43	1530	1540	7680
6	6.8	1	.02	31	7	.59	822	400	888
7	7.7	1	.02	161	73	39	351	138	131
8	7.7	1	.02	100	30	8.1	244	70	46
9	12	7	.42	72	16	3.1	205	52	29
10	57	34	5.9	217	73	44	181	46	22
11	33	15	1.3	128	26	9.0	165	52	23
12	20	10	.54	94	14	3.6	179	42	20
13	15	6	.24	77	12	2.5	155	35	15
14	12	3	.10	68	9	1.7	145	30	12
15	11	1	.03	680	836	1780	137	28	10
16	11	1	.03	317	198	169	133	22	7.9
17	9.9	2	.05	199	55	30	128	17	5.9
18	15	3	.12	142	26	10	124	13	4.4
19	12	2	.06	114	20	6.2	118	10	3.2
20	11	2	.06	135	16	5.8	116	10	3.1
21	10	1	.03	112	16	4.8	122	76	27
22	11	1	.03	96	16	4.1	179	223	115
23	11	1	.03	87	15	3.5	131	55	19
24	11	2	.06	79	13	2.8	120	30	9.7
25	130	109	123	72	10	1.9	118	20	6.4
26	361	295	420	71	10	1.9	116	19	6.0
27	137	95	35	77	10	2.1	114	16	4.9
28	131	58	21	66	10	1.8	108	15	4.4
29	80	30	6.5	59	10	1.6	106	14	4.0
30	244	171	132	79	55	12	100	13	3.5
31	104	30	8.4	---	---	---	94	13	3.3
TOTAL	1503.9	---	755.06	3568	---	2155.91	7079	---	14201.9

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	91	13	3.2	50	4	.54	2040	400	2200
2	89	12	2.9	49	12	1.6	932	290	730
3	89	12	2.9	45	9	1.1	600	290	470
4	89	12	2.9	44	5	.59	470	196	249
5	94	30	7.6	41	3	.33	400	120	130
6	94	19	4.8	38	3	.31	320	80	69
7	93	10	2.5	37	3	.30	265	40	29
8	392	1210	2140	36	4	.39	240	41	27
9	507	550	753	35	3	.28	220	33	20
10	240	80	52	33	2	.18	200	30	16
11	196	52	28	32	3	.26	175	25	12
12	179	50	24	31	4	.33	155	20	8.4
13	155	48	20	40	40	4.3	140	18	6.8
14	135	46	17	90	25	6.1	130	17	6.0
15	120	30	9.7	180	24	12	125	15	5.1
16	110	30	8.9	400	700	756	120	10	3.2
17	100	25	6.8	260	60	42	112	26	7.9
18	93	15	3.8	160	60	26	130	110	39
19	85	15	3.4	140	50	19	145	19	7.4
20	83	11	2.5	130	23	8.1	135	13	4.7
21	82	18	4.0	94	24	6.1	130	11	3.9
22	81	9	2.0	77	23	4.8	135	30	11
23	80	14	3.0	62	16	2.7	145	15	5.9
24	78	20	4.2	54	16	2.3	196	136	93
25	74	20	4.0	1400	2020	10600	181	16	7.8
26	69	10	1.9	5500	3400	50500	162	15	6.6
27	65	10	1.8	2540	3000	20600	152	10	4.1
28	57	10	1.5	4090	1800	19900	155	8	3.3
29	53	6	.86	4260	1100	12700	142	7	2.7
30	52	8	1.1	---	---	---	133	9	3.2
31	51	6	.83	---	---	---	160	32	14
TOTAL	3776	---	3121.09	19948	---	115195.6	8745	---	4196.0

11475100 DOBBYN CREEK NEAR FORT SEWARD, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	145	25	9.8	80	13	2.8	34	7	.64
2	135	22	8.0	77	11	2.3	30	7	.57
3	128	17	5.9	75	10	2.0	29	8	.63
4	124	13	4.4	71	5	.96	30	8	.65
5	120	10	3.2	68	5	.92	30	7	.57
6	122	8	2.6	67	9	1.6	29	6	.47
7	240	126	101	65	6	1.1	29	4	.31
8	272	132	97	62	6	1.0	29	3	.23
9	208	50	28	58	5	.78	30	2	.16
10	281	57	45	57	4	.62	33	5	.45
11	272	65	48	55	3	.45	31	5	.42
12	233	85	53	52	2	.28	29	5	.39
13	208	80	45	49	2	.26	28	5	.38
14	187	80	40	50	2	.27	26	6	.42
15	181	75	37	48	1	.13	25	5	.34
16	165	75	33	44	1	.12	24	4	.26
17	155	70	29	44	1	.12	24	7	.45
18	155	70	29	45	1	.12	23	6	.37
19	145	70	27	43	1	.12	22	6	.36
20	135	66	24	42	1	.11	21	6	.34
21	131	45	16	39	1	.11	22	6	.36
22	126	36	12	38	1	.10	22	6	.36
23	118	20	6.4	38	1	.10	21	6	.34
24	114	12	3.7	37	1	.10	20	6	.32
25	108	15	4.4	38	1	.10	19	6	.31
26	96	20	5.2	37	1	.10	18	6	.29
27	93	28	7.0	34	1	.09	18	6	.29
28	89	19	4.6	35	2	.19	17	6	.28
29	87	20	4.7	36	2	.19	16	6	.26
30	84	15	3.4	36	2	.19	16	6	.26
31	---	---	---	37	3	.30	---	---	---
TOTAL	4657	---	737.3	1557	---	17.63	745	---	11.48

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	16	6	.26	9.2	3	.07	10	2	.05
2	16	6	.26	9.2	3	.07	9.2	2	.05
3	17	6	.28	9.2	3	.07	8.6	2	.05
4	17	6	.28	9.2	3	.07	8.6	2	.05
5	16	6	.26	9.2	3	.07	8.6	2	.05
6	15	6	.24	9.2	3	.07	8.6	2	.05
7	15	6	.24	9.4	3	.08	8.0	2	.04
8	15	7	.28	9.6	3	.08	8.0	2	.04
9	15	6	.24	9.6	3	.08	8.0	2	.04
10	14	6	.23	9.6	3	.08	7.7	2	.04
11	13	6	.21	9.6	3	.08	7.7	2	.04
12	14	6	.23	9.0	3	.07	7.7	2	.04
13	13	6	.21	9.0	3	.07	7.7	2	.04
14	12	6	.19	9.0	3	.07	7.7	2	.04
15	12	5	.16	9.0	3	.07	7.7	4	.08
16	12	5	.16	12	3	.10	7.2	2	.04
17	13	5	.18	16	3	.13	7.2	2	.04
18	12	5	.16	22	2	.12	7.2	2	.04
19	12	5	.16	18	2	.10	7.2	2	.04
20	12	5	.16	22	2	.12	7.2	2	.04
21	11	5	.15	22	2	.12	7.2	2	.04
22	11	5	.15	20	2	.11	7.2	2	.04
23	11	4	.12	18	2	.10	7.2	2	.04
24	10	4	.11	16	2	.09	7.2	2	.04
25	10	4	.11	14	2	.08	6.8	2	.04
26	9.8	4	.11	13	2	.07	6.8	2	.04
27	9.6	4	.10	12	2	.06	6.8	2	.04
28	9.2	4	.10	12	2	.06	6.8	2	.04
29	9.2	4	.10	11	2	.06	6.8	2	.04
30	9.2	4	.10	11	2	.06	6.8	2	.04
31	9.2	4	.10	10	2	.05	---	---	---
TOTAL	390.2	---	5.64	388.0	---	2.53	229.4	---	1.30
YEAR	52586.5		140401.45						

11475100 DOBBYN CREEK NEAR FORT SEWARD, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1975	1503.90	755.06	175	930
NOVEMBER ...	3568.00	2155.91	791	2950
DECEMBER ...	7079.00	14201.90	4540	18700
JANUARY 1976	3776.00	3121.09	562	3680
FEBRUARY ...	19948.00	115195.61	34800	150000
MARCH	8745.00	4196.00	6550	10700
APRIL	4657.00	737.30	401	1140
MAY	1557.00	17.63	4	22
JUNE	745.00	11.48	0	11
JULY	390.20	5.64	0	6
AUGUST	388.00	2.53	0	3
SEPTEMBER ..	229.40	1.30	0	1
TOTAL	52586.50	140401.45	47823	188143

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
NOV										
15...	1700	11.0	--	974	970	2550	42	54	68	85
16...	1200	9.0	--	290	155	121	--	--	--	--
DEC										
04...	2045	10.0	--	1600	3030	13100	27	36	47	60
05...	1430	11.0	--	2890	2770	21600	28	38	50	65
11...	1400	9.0	--	162	30	13	--	--	--	--
21...	2140	7.0	--	147	157	62	--	--	--	--
22...	0600	7.0	--	226	369	225	56	67	80	91
JAN										
08...	1700	8.0	--	467	2080	2620	38	50	62	77
FEB										
13...	2015	9.0	40	--	76	8.2	--	--	--	--
16...	0700	7.0	400	--	1010	1090	34	44	58	73
19...	1800	8.0	140	--	100	38	--	--	--	--
25...	1130	8.0	--	1250	2070	6990	29	38	50	63
25...	1530	8.0	--	1840	1880	9340	28	37	49	61
25...	1915	9.0	--	2170	3320	19500	27	33	45	57
26...	0700	9.0	5500	--	3760	55800	23	30	41	52
29...	0900	9.0	4260	--	506	5820	42	54	66	79
MAR										
04...	1435	6.0	--	467	190	240	--	--	--	--
APR										
20...	1630	16.0	--	122	66	22	--	--	--	--

11475100 DOBBYN CREEK NEAR FORT SEWARD, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
NOV										
15...	95	--	98	--	99	--	100	--	--	--
16...	--	--	96	--	99	--	100	--	--	--
DEC										
04...	74	86	--	96	--	100	--	--	--	--
05...	80	92	--	98	--	100	--	--	--	--
11...	--	--	94	--	96	--	100	--	--	--
21...	--	--	99	--	100	--	--	--	--	--
22...	96	--	97	--	100	--	--	--	--	--
JAN										
08...	90	96	--	100	--	--	--	--	--	--
FEB										
13...	--	--	98	--	99	--	100	--	--	--
16...	85	--	94	--	99	--	100	--	--	--
19...	--	--	88	--	90	--	90	100	--	--
25...	80	--	86	--	97	--	100	--	--	--
25...	76	--	88	--	97	--	100	--	--	--
25...	72	--	85	--	96	--	100	--	--	--
26...	68	--	81	--	95	--	100	--	--	--
29...	89	--	95	--	99	--	100	--	--	--
MAR										
04...	--	--	70	--	76	--	81	89	95	95
APR										
20...	--	--	99	--	100	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (CFS)	STREAM WIDTH (FT)	SEDIMENT BEDLOAD DISCHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
OCT									
09...	1050	10.0	--	8.1	19	.00	--	--	--
NOV									
06...	1145	11.0	--	31	23	.00	--	--	--
DEC									
11...	1405	9.0	54	162	62	2.4	--	1	4
MAR									
04...	1435	6.0	5	467	96	263	1	1	5
23...	1340	11.0	13	143	56	11	--	1	4
APR									
27...	1815	15.5	11	93	38	1.4	1	1	3
JUN									
03...	1425	20.0	--	32	24	.00	--	--	--
16...	1230	21.5	--	25	25	.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
OCT								
09...	--	--	--	--	--	--	--	--
NOV								
06...	--	--	--	--	--	--	--	--
DEC								
11...	18	42	65	77	92	100	--	--
MAR								
04...	16	32	41	45	49	62	93	100
23...	18	42	70	83	90	100	--	--
APR								
27...	8	22	52	72	80	100	--	--
JUN								
03...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--

11475250 EEL RIVER AT SOUTH FORK, CA

LOCATION.--Lat 40°21'04", long 123°54'48", in SE¼NE¼ sec.2, T.1 S., R.2 E., Humboldt County, 0.2 mi (0.3 km) upstream from Northwestern Pacific Railroad Bridge, 0.4 mi (0.6 km) north of town of South Fork, and 0.5 mi (0.8 km) upstream from South Fork.

PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1952 to current year. Published as "near McCann" in 1952-53, and as "at McCann" in 1954-67.

REMARKS.--Exact sampling location subject to change due to seasonal accessibility to river. Records of discharge given for station 11475000 Eel River at Fort Seward.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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							
07...	1305	40	315	8.0	17.5	1	9.0
NOV							
04...	1400	519	218	7.7	15.0	7	9.6
DEC							
02...	1310	1290	169	7.6	10.5	25	10.4
JAN							
06...	1400	637	192	7.8	7.5	3	11.6
FEB							
03...	1525	414	197	7.9	10.5	0	11.7
MAR							
02...	1330	15400	123	7.8	7.0	210	11.3
APR							
06...	1430	1340	180	8.0	15.0	4	10.0
MAY							
04...	1315	1430	175	7.8	17.0	3	9.6
JUN							
08...	1115	270	233	8.0	17.0	0	10.0
JUL							
13...	1130	66	282	7.8	20.5	1	9.3
AUG							
04...	0900	27	290	7.7	20.0	0	10.1
SEP							
14...	1115	32	308	8.0	20.0	1	9.6

DATE	TIME	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
FEB											
03...	1525	98	8	5.8	.3	110	0	90	4.4	--	--
APR											
06...	1430	83	8	5.1	.2	91	0	75	3.2	.01	.10

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (P04) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL ZINC (ZN) (UG/L)
FEB										
03...	--	--	--	100	--	--	--	--	--	--
APR										
06...	.03	.00	.00	100	0	0	100	0	10	20

11475560 ELDER CREEK NEAR BRANSCOMB, CA
(Hydrologic bench-mark station)

LOCATION.--Lat 39°43'47", long 123°38'34", in NW¼NE¼ sec.29, T.22 N., R.16 W., Mendocino County, on right bank 0.2 mi (0.3 km) upstream from mouth, and 5.3 mi (8.5 km) north of Branscomb.
Rain gage No. 1: Lat 39°43'50", long 123°38'07", in NW¼NW¼ sec.28, T.22 N., R.16 W., altitude, 1,440 ft (439 m) at site 0.5 mi (0.8 km) east of gaging station.

DRAINAGE AREA.--6.50 mi^2 (16.84 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-state recorder and one recording and storage-type precipitation gage. Datum of gage is 1,391.08 ft (424.001 m) above mean sea level.

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

AVERAGE DISCHARGE.--9 years, 29.8 ft^3/s (0.844 m^3/s), 21,590 acre-ft/yr (26.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,280 ft^3/s (64.6 m^3/s) Mar. 29, 1974, gage height, 9.77 ft (2.978 m), from rating curve extended above 660 ft^3/s (18.7 m^3/s) on basis of slope-area measurements at gage heights 9.40 ft (2.865 m) and 11.41 ft (3.478 m); minimum daily, 0.50 ft^3/s (0.014 m^3/s) Sept. 28-30, Oct. 4-17, 1970.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 11.41 ft (3.478 m), from floodmarks, discharge, 3,660 ft^3/s (104 m^3/s) by slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 376 ft^3/s (10.6 m^3/s) Feb. 26, gage height, 6.29 ft (1.917 m), no peak above base of 450 ft^3/s (13 m^3/s); minimum daily, 0.88 ft^3/s (0.025 m^3/s) Oct. 1-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.88	7.8	7.5	8.4	5.5	147	12	11	4.6	2.3	1.4	1.2
2	.88	6.0	7.1	8.0	5.2	106	11	10	4.5	2.3	1.5	1.2
3	.88	4.9	6.8	7.6	5.0	77	11	9.8	4.4	2.3	1.5	1.2
4	.88	4.2	26	7.2	5.0	61	10	9.3	4.4	2.3	1.5	1.2
5	.88	3.9	77	7.1	5.0	52	10	8.9	4.3	2.3	1.5	1.1
6	.88	3.8	68	6.9	4.6	45	11	8.6	4.2	2.2	1.5	1.1
7	.88	8.4	46	6.5	4.4	41	16	8.5	4.2	2.1	1.5	1.1
8	.88	8.2	35	12	4.4	38	25	8.0	4.2	2.1	1.5	1.1
9	1.8	6.8	28	22	4.2	35	26	7.8	4.2	2.1	1.5	1.0
10	3.0	19	24	18	4.0	32	34	7.5	4.2	2.1	1.5	1.0
11	3.4	15	21	17	3.8	30	41	7.3	4.2	2.0	1.4	1.0
12	2.6	11	21	16	3.8	27	41	7.2	4.1	2.0	1.4	1.0
13	1.9	9.1	18	15	4.8	25	38	7.0	4.0	2.0	1.4	1.0
14	1.6	7.6	16	14	7.8	23	36	6.9	3.8	1.9	1.9	1.0
15	1.4	41	14	13	12	22	33	6.6	3.6	1.8	2.5	1.0
16	1.4	36	13	12	24	20	30	6.4	3.5	1.8	2.4	1.0
17	1.3	25	12	12	25	18	27	6.4	3.4	1.9	2.5	1.0
18	1.3	19	12	11	25	18	26	6.2	3.3	1.9	3.5	1.0
19	1.3	15	11	10	29	18	24	6.0	3.2	1.9	3.0	1.0
20	1.3	15	10	9.5	29	16	22	5.7	3.2	1.8	2.3	1.0
21	1.3	13	11	8.9	27	15	20	5.6	3.2	1.8	1.9	1.0
22	1.3	11	16	8.5	24	15	19	5.6	3.1	1.6	1.8	1.0
23	1.3	10	13	8.0	19	15	18	5.4	3.0	1.6	1.6	1.0
24	1.3	8.8	12	7.6	16	17	16	5.2	2.7	1.6	1.6	.96
25	9.3	7.8	12	7.1	72	15	15	5.1	2.6	1.6	1.6	.96
26	27	7.3	11	6.7	278	14	14	5.0	2.5	1.5	1.5	.96
27	8.7	7.2	11	6.5	190	14	13	5.0	2.4	1.4	1.5	.96
28	5.8	6.6	10	6.1	156	14	13	4.8	2.4	1.4	1.4	.96
29	5.4	6.2	9.7	6.2	165	13	12	4.7	2.4	1.4	1.4	.96
30	23	6.0	9.0	5.9	---	12	11	4.6	2.3	1.4	1.3	.96
31	12	---	8.5	5.5	---	13	---	4.6	---	1.4	1.3	---
TOTAL	125.74	350.6	596.6	310.2	1158.5	1008	635	210.7	106.1	57.8	54.1	30.92
MEAN	4.06	11.7	19.2	10.0	39.9	32.5	21.2	6.80	3.54	1.86	1.75	1.03
MAX	27	41	77	22	278	147	41	11	4.6	2.3	3.5	1.2
MIN	.88	3.8	6.8	5.5	3.8	12	10	4.6	2.3	1.4	1.3	.96
AC-FT	249	695	1180	615	2300	2000	1260	418	210	115	107	61
(†)	4.24	5.51	.21	1.95	16.63	3.45	4.21	.09	.19	0	2.74	.20

CAL YR 1975 TOTAL 10866.16 MEAN 29.8 MAX 634 MIN .88 AC-FT 21550
WTR YR 1976 TOTAL 4644.26 MEAN 12.7 MAX 278 MIN .88 AC-FT 9210

† Precipitation, in inches, at rain gage No. 1.

11475560 ELDER CREEK NEAR BRANSCOMB, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to current year.
CHEMICAL ANALYSES: Water years 1968 to current year.
WATER TEMPERATURES: Water years 1968 to current year.
SEDIMENT RECORDS: Water years 1969 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1967 to current year.
SEDIMENT RECORDS: October 1973 to September 1975.

INSTRUMENTATION.--Temperature recorder since October 1967.

REMARKS.--Chemical-quality samples collected 0.2 mi (0.3 km) downstream from gaging station. Where no maximum or minimum is shown, temperature is once-daily reading.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 21.0°C on several days in 1968, 1969, and 1974; minimum (water years 1968-70, 1973-75), 2.5°C Dec. 10, 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 19.0°C July 26-28.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
OCT												
22...	1255	1.3	122	7.6	9.5	10.8	94	B13	B9	20	51	0
NOV												
24...	1040	8.8	92	7.2	6.5	11.7	96	B6	B1	82	42	0
DEC												
23...	1115	12	98	7.2	6.5	12.0	97	B6	B7	49	39	0
JAN												
26...	1430	6.8	97	7.3	5.0	12.5	98	B8	B1	54	45	0
FEB												
24...	1525	15	95	6.8	7.5	11.1	92	B13	B5	40	44	0
MAR												
24...	1545	17	88	7.2	7.5	10.8	90	24	B5	20	38	0
MAY												
04...	1345	9.1	101	7.1	11.0	10.6	96	--	B1	B1	41	0
JUN												
09...	1630	4.2	118	7.7	12.0	10.1	94	B8	B5	B8	46	0
JUL												
08...	1515	2.1	128	7.7	18.5	8.6	91	12	B1	16	51	0
AUG												
10...	1530	1.5	130	7.4	18.0	9.2	96	25	12	170	53	0
SEP												
16...	1530	1.0	142	--	13.0	9.8	91	61	B6	110	56	0

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
OCT												
22...	13	4.6	7.7	24	.5	.6	80	0	66	3.9	2.8	.1
NOV												
24...	11	3.5	6.1	24	.4	.5	59	0	48	3.7	2.0	.1
DEC												
23...	10	3.5	5.6	23	.4	.4	57	0	47	3.3	1.4	.1
JAN												
26...	11	4.2	5.7	21	.4	.5	63	0	52	3.1	2.3	.1
FEB												
24...	12	3.4	5.7	22	.4	.6	59	0	48	3.1	2.3	.1
MAR												
24...	9.5	3.4	5.9	25	.4	.6	56	0	46	2.6	1.8	.1
MAY												
04...	11	3.4	5.9	23	.4	.6	64	0	53	2.4	1.7	.1
JUN												
09...	12	3.8	6.8	24	.4	.7	64	0	53	3.4	2.6	.2
JUL												
08...	14	3.9	7.4	24	.5	.7	74	0	61	3.7	3.4	.1
AUG												
10...	14	4.3	7.9	24	.5	.8	69	0	57	3.6	2.5	.1
SEP												
16...	15	4.5	8.0	23	.5	.7	75	0	62	2.9	2.5	.1

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

11475560 ELDER CREEK NEAR BRANSCOMB, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
OCT											
22...	12	84	.11	.32	.06	.00	.06	.03	.01	60	10
NOV											
24...	14	70	.10	1.68	.01	.00	.01	.01	.02	40	10
DEC											
23...	13	65	.09	2.25	.00	.01	.01	.00	.01	30	20
JAN											
26...	12	70	.10	1.29	.02	.02	.04	.01	.00	30	10
FEB											
24...	13	70	.10	2.93	.00	.01	.01	.01	.01	--	160
MAR											
24...	14	66	.09	3.03	.00	.00	.00	.02	.03	20	0
MAY											
04...	13	70	.10	1.73	.01	.00	.01	.01	.09	40	0
JUN											
09...	14	75	.10	.86	.00	.00	.00	--	.03	20	20
JUL											
08...	14	84	.11	.48	--	--	.01	.01	.02	50	20
AUG											
10...	15	82	.11	.34	.02	.00	.02	.02	.02	50	10
SEP											
16...	15	86	.12	.24	.04	.00	.04	--	.01	350	60

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)
JAN									
26...	1430	--	--	--	--	--	--	--	--
MAY									
04...	1345	1	0	<10	0	10	100	<100	0
SEP									
16...	1530	0	0	1	20	3	50	6	20

DATE	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	CYANIDE (CN) (MG/L)	POLY-CHLO-RINATED NAPH-THA-LENES (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MA-TERIAL (UG/KG)
JAN								
26...	--	--	--	--	--	--	.0	0
MAY								
04...	.0	0	<10	10	.00	--	--	--
SEP								
16...	.1	0	0	60	.00	.00	.0	0

DATE	TIME	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
JAN											
26...	1430	66	<1	<.7	<.4	.9	<.4	.7	<.4	.06	.02

DATE	TIME	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
MAR											
03...	1430	88	98	<.9	1.9	3.2	3.3	2.6	2.6	.03	.10

11475800 SOUTH FORK EEL RIVER AT LEGGETT, CA

LOCATION.--Lat 39°52'29", long 123°43'10", in NE¼SE¼ sec.3, T.23 N., R.17 W., Mendocino County, on right bank near Standish-Hickey State Park, 0.2 mi (0.3 km) upstream from Rock Creek, and 0.7 mi (1.1 km) northwest of Leggett.

DRAINAGE AREA.--248 mi^2 (642 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 693.32 ft (211.324 m) above mean sea level.

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

AVERAGE DISCHARGE.--11 years, 975 ft^3/s (27.61 m^3/s), 706,400 acre-ft/yr (871 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 72,700 ft^3/s (2,060 m^3/s) Jan. 4, 1966, gage height, 25.4 ft (7.74 m) from floodmarks, from rating curve extended above 21,000 ft^3/s (595 m^3/s) on basis of slope-area measurement at gage height 26.13 ft (7.964 m); minimum daily, 15 ft^3/s (0.42 m^3/s) Oct. 15, 1966, Sept. 30 to Oct. 17, 1970.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 26.13 ft (7.964 m) from floodmarks, discharge, 78,700 ft^3/s (2,230 m^3/s) by slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 8,500 ft^3/s (241 m^3/s) and maximum(*), from rating curve extended above 6,100 ft^3/s (173 m^3/s) as explained above:

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 26	1045	*21100	598	14.46	4.407
Feb. 29	1345	14000	396	12.13	3.697

Minimum daily discharge, 21 ft^3/s (0.59 m^3/s) Oct. 1-6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	307	379	273	161	6240	377	262	118	50	29	29
2	21	226	364	256	156	4110	351	256	110	51	31	28
3	21	182	302	246	152	3000	336	243	107	51	31	27
4	21	154	1360	239	147	2240	326	237	104	49	32	27
5	21	135	5590	249	143	1800	315	228	100	49	33	27
6	21	135	3300	249	138	1490	333	219	98	49	33	26
7	22	430	1730	234	135	1300	477	207	97	48	33	26
8	22	404	1150	426	131	1170	1260	202	97	45	33	25
9	30	289	860	1180	129	1030	933	196	100	44	33	25
10	157	777	730	754	125	912	1280	188	102	43	32	24
11	169	511	609	633	120	804	1460	182	97	42	31	24
12	93	364	729	581	118	721	1570	173	95	42	28	24
13	61	293	607	511	161	655	1240	168	90	41	28	24
14	48	242	524	463	303	608	1010	164	85	40	38	24
15	42	2080	470	420	779	559	871	160	81	40	60	24
16	39	1540	435	389	1580	522	752	155	78	39	66	24
17	37	808	405	361	1340	490	667	153	74	37	59	24
18	41	559	372	335	1290	522	608	148	72	37	88	25
19	39	436	347	311	1660	554	531	145	68	38	86	25
20	37	503	325	285	1270	477	481	143	68	37	63	25
21	34	415	331	266	962	439	447	135	68	36	53	25
22	34	349	705	249	782	423	423	130	68	35	48	25
23	32	302	514	239	650	411	396	127	68	35	47	24
24	32	271	435	230	562	455	369	125	63	34	44	24
25	395	242	398	215	3750	504	347	123	60	34	41	24
26	1850	226	381	206	15600	443	329	118	56	32	38	24
27	480	226	370	195	10600	423	315	113	55	33	36	24
28	293	203	339	188	7680	407	302	110	53	32	35	24
29	230	189	319	179	10100	388	288	110	51	31	33	25
30	1020	196	304	176	---	366	275	113	51	28	32	25
31	497	---	285	169	---	388	---	120	---	28	31	---
TOTAL	5860	12994	24969	10707	60724	33851	18669	5153	2434	1230	1305	751
MEAN	189	433	805	345	2094	1092	622	166	81.1	39.7	42.1	25.0
MAX	1850	2080	5590	1180	15600	6240	1570	262	118	51	88	29
MIN	21	135	285	169	118	366	275	110	51	28	28	24
AC-FT	11620	25770	49530	21240	120400	67140	37030	10220	4830	2440	2590	1490

CAL YR 1975	TOTAL	409589	MEAN	1122	MAX	28300	MIN 21	AC-FT	812400
WTR YR 1976	TOTAL	178647	MEAN	488	MAX	15600	MIN 21	AC-FT	354300

11475800 SOUTH FORK EEL RIVER AT LEGGETT, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1965 to current year.
INSTRUMENTATION.--Temperature recorder since October 1965.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1966-69, 1971-76), 26.5°C July 27, 1973; minimum (water years 1966-70, 1972-76), 2.5°C Dec. 11-14, 1972.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 24.5°C July 26, 28, 29; minimum, 5.0°C Jan. 2.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	8.5	14.5	13.0	17.0	14.0	21.0	16.5	23.0	22.5	23.0	21.5
2	10.5	8.0	15.5	13.0	17.5	14.0	21.0	16.5	23.5	22.0	22.5	21.0
3	10.0	9.0	16.0	13.0	18.0	14.5	20.5	17.0	22.5	22.0	23.0	20.5
4	11.5	9.0	15.5	13.5	18.0	14.0	21.5	18.0	22.5	21.5	22.5	20.5
5	10.5	10.0	16.5	14.0	18.5	14.5	22.0	18.0	23.0	21.0	22.5	20.5
6	11.0	10.0	17.0	14.0	18.0	14.5	22.0	18.0	21.5	21.0	22.0	20.5
7	10.5	9.5	17.5	14.0	16.0	14.5	22.0	19.0	22.5	21.0	22.0	20.0
8	10.0	9.0	18.0	15.0	17.5	14.0	22.5	19.0	22.5	21.0	22.5	20.0
9	9.5	9.0	18.5	15.5	16.0	15.0	22.5	19.5	23.0	21.0	22.5	20.0
10	9.0	8.5	18.0	15.5	17.5	15.0	22.5	18.5	23.5	21.0	21.5	20.0
11	8.5	8.5	18.0	15.5	17.0	15.0	22.5	19.0	23.5	21.5	22.0	20.0
12	8.5	8.0	19.0	15.5	18.5	15.5	23.0	19.0	23.5	21.5	22.0	20.0
13	10.5	8.5	19.5	16.5	18.5	15.0	23.0	20.5	21.5	21.0	21.5	19.5
14	11.0	9.0	19.0	16.5	19.0	15.0	23.0	20.5	21.5	21.0	21.5	19.5
15	10.5	10.0	19.5	16.0	19.5	16.0	23.5	21.0	21.0	20.5	21.0	19.5
16	10.5	8.5	19.0	16.0	20.5	17.5	22.5	21.0	21.0	20.5	19.5	19.5
17	10.0	9.0	18.5	15.5	21.5	17.5	23.0	21.0	20.5	20.0	21.0	19.0
18	11.5	9.0	18.0	15.0	21.5	18.0	23.0	21.0	20.0	20.0	21.0	19.0
19	12.5	10.0	18.0	14.5	21.5	18.0	22.5	21.0	21.5	19.5	21.0	19.0
20	13.0	11.0	18.0	14.5	21.0	19.0	23.0	21.0	22.5	20.0	21.0	19.5
21	13.0	11.5	18.5	15.0	21.5	18.0	23.0	21.0	22.5	21.0	21.0	19.0
22	13.5	12.0	18.5	15.5	20.0	17.5	23.5	21.0	21.5	21.0	20.5	19.0
23	13.5	11.5	18.5	15.5	20.5	17.0	23.5	21.5	22.5	20.5	20.5	19.0
24	14.0	12.0	18.5	15.5	21.0	17.5	23.5	21.0	22.5	21.0	20.5	18.5
25	14.0	11.5	19.0	16.0	21.5	18.0	24.0	22.0	22.5	21.0	20.0	18.5
26	13.5	11.0	19.5	16.0	21.0	17.0	24.5	22.0	22.0	20.5	20.0	18.5
27	14.0	11.0	19.0	16.5	21.5	17.0	24.0	22.0	22.5	20.5	18.5	18.0
28	14.0	11.5	18.5	15.5	22.0	17.5	24.5	22.5	22.5	20.5	18.5	18.0
29	14.5	11.5	16.5	15.0	21.5	18.0	24.5	22.5	23.0	21.0	19.0	17.5
30	14.5	12.0	17.0	15.5	20.5	17.5	24.0	23.0	23.0	21.0	19.5	18.0
31	---	---	16.5	15.0	---	---	23.5	22.5	23.0	21.0	---	---
MONTH	14.5	8.0	19.5	13.0	22.0	14.0	24.5	16.5	23.5	19.5	23.0	17.5

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CA

LOCATION.--Lat 40°10'55", long 123°46'30", in NW¼ sec.30, T.3 S., R.4 E., Humboldt County, on right bank at Sylvandale Campgrounds on U.S. Highway 101, 0.5 mi (0.8 km) upstream from Rocky Glen Creek, 4.3 mi (6.9 km) southeast of Miranda, and 20 mi (32 km) upstream from mouth.

DRAINAGE AREA.--537 mi^2 (1,391 km^2).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1395: Drainage area. WSP 2129: 1955.

GAGE.--Water-stage recorder. Datum of gage is 217.57 ft (66.315 m) above mean sea level. Prior to Nov. 2, 1940, nonrecording gage at site 200 ft (61 m) upstream at datum 0.8 ft (0.24 m) higher. Nov. 2, 1940, to Oct. 31, 1944, nonrecording gage at present site and datum.

REMARKS.--Records good. Occasional storage and release for recreation use during summer months at Benbow Dam. No diversion above station.

AVERAGE DISCHARGE.--37 years, 1,945 ft^3/s (55.08 m^3/s), 1,409,000 acre-ft/yr (1.74 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 199,000 ft^3/s (5,640 m^3/s) Dec. 22, 1964, gage height, 46.0 ft (14.02 m) from floodmarks, from rating curve extended above 53,000 ft^3/s (1,500 m^3/s) on basis of slope-area measurement at gage height 42.7 ft (13.01 m); minimum observed, 9 ft^3/s (0.25 m^3/s) Oct. 17, 1944.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 15,000 ft^3/s (425 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 5	2200	17200	487	13.53	4.124
Feb. 26	1400	*46900	1330	20.94	6.383
Feb. 29	1845	25000	708	15.74	4.798

Minimum daily discharge, 42 ft^3/s (1.19 m^3/s) Sept. 22, 26, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	714	670	685	365	15000	837	585	243	114	47	56
2	47	512	796	649	349	10100	747	568	235	111	54	54
3	46	406	670	621	339	7770	701	546	227	111	54	52
4	45	341	2510	605	328	6220	670	524	220	109	58	52
5	47	303	12700	678	313	5060	645	497	213	109	60	50
6	45	293	9380	683	304	3890	682	481	209	109	60	50
7	44	468	4320	627	289	3220	1160	460	209	107	62	48
8	44	862	2750	1060	284	2810	3370	444	206	102	62	47
9	60	629	2060	2770	275	2440	2900	428	202	102	60	45
10	270	1050	1650	1800	270	2140	4230	412	209	98	56	47
11	365	1180	1410	1380	261	1870	4590	391	206	96	54	47
12	266	777	1450	1240	253	1660	4020	376	202	96	56	47
13	170	622	1350	1110	289	1500	3300	361	192	90	56	46
14	125	533	1170	1010	557	1370	2640	341	182	88	69	46
15	103	5600	1050	929	1310	1290	2160	337	172	86	94	46
16	89	3200	974	862	2440	1180	1830	327	166	84	119	46
17	81	2400	913	804	3230	1110	1600	313	160	86	124	45
18	95	1500	853	750	2480	1140	1470	304	154	84	137	45
19	91	960	798	700	2820	1190	1310	304	154	80	148	44
20	84	1180	750	648	2680	1060	1180	296	154	78	148	44
21	77	912	795	602	1990	949	1090	283	143	74	121	43
22	75	748	1410	567	1670	900	1010	246	148	73	102	42
23	74	653	1270	536	1420	876	941	227	145	71	96	44
24	70	578	1050	512	1260	908	868	217	140	69	88	44
25	180	520	956	486	6470	1100	806	239	102	67	80	44
26	4020	481	918	456	35100	957	754	235	127	67	76	42
27	1450	474	919	438	23200	884	720	231	124	64	71	42
28	940	451	854	415	18500	845	682	239	119	60	67	44
29	616	411	800	403	20100	799	645	231	116	58	67	45
30	1960	403	765	387	---	747	615	227	114	58	64	45
31	1360	---	725	376	---	821	---	235	---	45	60	---
TOTAL	12987	29161	58686	24789	129146	81806	48173	10905	5193	2646	2470	1392
MEAN	419	972	1893	800	4453	2639	1606	352	173	85.4	79.7	46.4
MAX	4020	5600	12700	2770	35100	15000	4590	585	243	114	148	56
MIN	44	293	670	376	253	747	615	217	102	45	47	42
AC-FT	25760	57840	116400	49170	256200	162300	95550	21630	10300	5250	4900	2760

CAL YR 1975 TOTAL 912823 MEAN 2501 MAX 77200 MIN 44 AC-FT 1811000
WTR YR 1976 TOTAL 407354 MEAN 1113 MAX 35100 MIN 42 AC-FT 808000

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952 to current year.
CHEMICAL ANALYSES: Water years 1952 to current year.
WATER TEMPERATURES: Water years 1961 to current year.
SEDIMENT RECORDS: Water years 1955-62.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1960 to current year.

INSTRUMENTATION.--Temperature recorder since November 1960.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES (water years 1961-64, 1966-76): Maximum (water years 1961, 1964, 1966-68, 1971-76), 34.0°C July 25, 1964; minimum (water years 1961-64, 1966-70, 1973-76), 1.0°C Jan. 20, 21, 1963.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 27.0°C July 15, 30; minimum, 5.0°C Jan. 1-3.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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 07...	1350	--	44	273	8.4	18.0	1	10.3
NOV 04...	1430	--	339	204	7.9	15.5	2	10.0
DEC 02...	1340	--	796	161	7.8	11.0	6	10.6
JAN 06...	1445	--	668	162	7.8	8.0	4	12.5
FEB 03...	1625	--	334	171	8.1	10.0	2	11.1
MAR 02...	1415	--	9830	120	7.4	9.0	180	11.0
APR 06...	1510	--	695	162	7.8	13.0	1	10.6
MAY 04...	1445	--	524	170	7.8	17.0	1	10.0
JUN 08...	1145	--	206	199	8.1	18.0	1	11.1
JUL 13...	1245	--	90	237	8.1	24.0	1	10.6
AUG 04...	0930	--	58	240	7.8	21.0	0	7.8
SEP 14...	1215	46	--	242	8.2	21.0	1	10.8

DATE	TIME	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
FEB 03...	1625	76	1	7.2	.4	92	0	75	5.0	.04	--
APR 06...	1510	72	1	5.9	.3	86	0	71	5.0	.00	.00

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (P04) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL ZINC (ZN) (UG/L)
FEB 03...	--	.01	.03	0	--	--	--	--	--	--
APR 06...	.05	.02	.06	100	0	0	0	0	10	10

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.5	18.0	13.0	12.0	10.0	9.0	6.0	5.0	10.0	9.0	10.0	9.0
2	19.5	17.5	13.5	12.0	10.5	10.0	5.5	5.0	10.5	9.0	9.0	8.0
3	20.0	17.5	15.0	13.5	10.5	10.0	6.5	5.0	11.0	9.5	9.5	7.5
4	21.0	18.0	15.5	14.0	10.5	9.5	7.5	6.5	9.5	7.5	9.5	8.0
5	20.5	18.0	14.5	14.0	10.5	9.5	8.0	7.5	7.5	6.0	10.0	8.0
6	18.5	16.5	14.5	14.0	10.5	10.5	8.0	7.0	7.0	5.5	10.5	8.0
7	18.5	17.0	14.0	13.5	10.5	10.0	8.0	7.0	7.5	5.5	10.0	9.0
8	17.5	15.5	14.0	12.0	10.0	9.5	9.0	8.0	8.0	6.5	11.5	9.0
9	15.5	15.0	12.0	10.5	9.5	9.5	9.0	8.0	8.0	6.5	12.0	9.5
10	16.0	15.0	11.5	10.0	9.5	8.5	8.0	7.0	8.5	6.5	12.0	10.0
11	17.5	16.0	10.5	9.5	8.5	8.5	8.0	7.0	9.0	7.0	11.5	9.5
12	17.5	15.5	10.5	9.5	8.5	7.5	8.0	8.0	10.5	8.0	11.5	9.5
13	17.5	15.5	10.5	9.5	7.5	6.5	8.5	7.5	10.0	9.5	11.5	9.5
14	17.5	15.5	11.5	9.5	7.0	6.0	9.0	8.5	10.5	8.5	12.0	10.0
15	17.0	14.5	12.0	11.5	6.5	5.5	9.5	8.5	9.0	8.0	13.0	11.0
16	17.5	15.0	11.5	10.5	6.5	5.5	9.5	8.5	10.0	9.0	13.0	11.5
17	17.0	16.0	10.5	8.5	7.5	6.5	9.5	9.0	10.5	9.5	14.0	12.0
18	17.0	15.5	8.5	7.5	7.5	6.5	9.5	8.5	10.5	9.5	13.5	11.5
19	16.5	14.5	8.0	7.0	7.0	6.5	9.0	7.5	10.0	9.0	12.0	10.5
20	16.5	15.0	9.0	8.0	7.5	6.5	8.0	7.5	9.5	8.0	12.5	9.5
21	16.5	15.0	9.0	8.0	7.5	7.0	8.5	7.5	9.5	8.5	13.0	11.0
22	16.5	15.0	9.0	8.0	8.0	7.5	8.5	7.5	10.0	8.5	12.5	11.0
23	15.0	13.0	10.0	9.0	9.0	8.0	8.5	7.5	10.0	9.0	12.0	10.5
24	14.5	12.5	10.0	9.0	9.0	8.0	9.5	8.0	10.5	9.5	12.5	11.5
25	13.5	13.0	9.5	8.5	9.0	8.5	9.0	7.5	10.5	10.0	12.0	10.0
26	14.0	13.5	9.5	9.0	9.5	9.0	8.0	7.0	11.0	10.5	12.0	10.0
27	13.5	13.0	10.0	9.0	9.5	9.0	8.0	7.0	11.5	11.0	11.0	9.0
28	14.0	12.5	9.0	7.0	9.5	9.0	8.5	7.5	11.5	11.0	12.0	10.0
29	13.5	12.5	8.0	6.5	9.5	9.0	9.0	7.5	11.0	10.0	13.0	10.0
30	13.5	12.5	9.0	8.0	9.0	7.5	9.0	8.0	---	---	14.0	11.0
31	13.0	11.5	---	---	8.0	6.0	9.5	8.5	---	---	14.0	10.0
MONTH	21.0	11.5	15.5	6.5	10.5	5.5	9.5	5.0	11.5	5.5	14.0	7.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	8.5	16.5	14.0	22.0	18.5	22.5	17.5	25.0	21.0	24.0	21.0
2	12.5	10.0	17.0	14.0	21.5	18.5	24.0	18.5	26.0	21.5	23.0	19.0
3	11.5	10.5	18.0	14.5	21.5	18.0	24.0	19.5	23.0	21.5	25.5	19.5
4	14.5	10.5	18.0	15.0	21.5	17.5	25.5	20.5	22.0	21.0	24.0	22.0
5	14.0	11.5	17.5	15.0	22.0	17.5	26.5	21.5	23.0	21.0	23.5	20.0
6	13.5	11.0	18.0	14.5	22.0	18.0	25.5	21.5	22.0	21.0	22.5	19.5
7	13.0	10.5	20.0	15.5	20.0	17.5	26.0	22.0	22.0	20.0	23.0	17.0
8	12.0	10.0	21.0	17.0	21.5	16.5	26.5	22.5	22.5	20.0	24.0	17.0
9	11.0	10.0	21.5	17.5	20.5	18.0	25.0	22.0	24.5	20.0	25.0	19.0
10	11.0	9.5	20.5	17.5	21.0	17.5	24.5	20.5	25.0	21.0	25.0	19.0
11	10.0	9.0	21.0	17.5	21.0	18.0	24.5	21.0	24.0	21.0	23.5	19.0
12	11.0	8.5	22.5	17.5	22.5	18.0	25.0	21.0	24.0	21.0	23.0	18.0
13	12.0	8.5	23.0	19.5	22.5	18.0	24.5	20.0	22.0	20.0	21.0	18.0
14	13.0	10.0	21.5	18.0	22.5	16.5	26.0	20.0	20.5	19.5	21.0	19.0
15	12.0	9.5	22.5	17.5	23.0	18.0	27.0	22.5	20.0	19.5	20.0	18.0
16	12.0	8.5	21.0	18.0	22.5	18.5	24.0	21.0	21.0	19.5	19.5	18.0
17	11.5	9.5	20.5	16.5	24.0	17.5	25.0	21.0	20.5	19.0	22.5	18.0
18	13.0	9.5	20.0	16.0	23.5	20.0	24.0	21.0	20.0	19.0	22.0	18.0
19	14.0	10.0	20.5	16.5	23.5	20.5	26.0	20.0	23.0	19.0	22.5	18.0
20	15.0	12.0	20.5	16.5	23.0	19.0	25.5	20.5	24.0	20.0	23.0	19.0
21	14.0	12.0	22.0	17.0	21.5	18.5	24.0	20.5	24.0	21.0	22.5	19.0
22	14.5	12.5	22.0	18.0	22.5	16.5	24.0	19.5	23.0	20.0	22.0	18.0
23	15.0	12.5	22.0	18.0	23.5	16.5	25.0	20.0	23.0	20.0	22.0	19.0
24	15.5	13.5	22.0	18.5	24.0	17.5	26.0	21.0	23.0	20.0	24.0	18.0
25	14.5	11.5	22.0	19.0	23.5	18.5	26.0	20.0	23.0	20.0	21.0	17.0
26	14.5	11.5	23.0	18.0	23.5	17.5	25.5	20.0	22.0	19.0	19.0	17.0
27	16.0	12.0	20.5	18.0	24.5	18.5	26.5	20.0	23.0	18.5	19.0	17.0
28	16.5	12.5	21.0	17.0	26.5	22.5	26.5	21.0	23.5	20.0	20.0	17.0
29	16.0	13.0	19.0	17.0	26.5	21.5	26.5	23.0	24.5	21.0	22.0	17.0
30	17.5	13.0	20.0	18.5	22.5	19.5	27.0	22.0	25.0	21.0	22.5	18.0
31	---	---	21.5	18.5	---	---	25.5	21.0	25.0	22.0	---	---
MONTH	17.5	8.5	23.0	14.0	26.5	16.5	27.0	17.5	26.0	18.5	25.5	17.0

11476600 BULL CREEK NEAR WEOTT, CA

LOCATION.--Lat 40°21'05", long 124°00'10", in SW¼NW¼ sec.30, T.1 S., R.2 E., Humboldt County, on left bank 0.2 mi (0.3 km) downstream from Albee Creek, 4.5 mi (7.2 km) northwest of Weott, and 4.6 mi (7.4 km) upstream from mouth.

DRAINAGE AREA.--28.1 mi^2 (72.8 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 269.36 ft (82.101 m) above mean sea level. Prior to Dec. 22, 1964, water-stage recorder, and Jan. 14 to Aug. 10, 1965, nonrecording gage at site 150 ft (46 m) downstream at datum 8.90 ft (2.713 m) lower.

REMARKS.--Records fair. Minor diversions above station for domestic use.

AVERAGE DISCHARGE.--16 years, 128 ft^3/s (3.625 m^3/s), 92,740 acre-ft/yr (114 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,520 ft^3/s (185 m^3/s) Dec. 22, 1964, gage height, 20.6 ft (6.28 m) from floodmarks, site and datum then in use, from rating curve extended above 2,100 ft^3/s (59.5 m^3/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.30 ft^3/s (0.008 m^3/s) Sept. 28, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,590 ft^3/s (45.0 m^3/s) Feb. 26, gage height, 7.67 ft (2.338 m), no peak above base of 1,700 ft^3/s (48 m^3/s); minimum daily, 1.4 ft^3/s (0.040 m^3/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	90	133	41	33	686	63	42	14	5.4	3.7	3.2
2	1.5	75	117	38	32	587	58	39	13	5.4	3.7	3.0
3	1.5	65	106	37	30	488	56	37	13	5.1	3.6	3.0
4	1.5	59	432	36	28	385	54	36	12	4.8	3.7	2.8
5	1.5	53	707	37	27	307	53	34	12	4.8	3.7	2.8
6	1.5	60	576	38	26	272	58	33	12	4.5	3.9	2.8
7	1.6	80	417	38	25	237	149	31	12	4.2	4.2	2.8
8	1.8	53	324	114	25	211	234	29	12	4.2	4.2	2.8
9	3.0	46	247	131	23	187	258	29	12	4.2	3.9	2.5
10	10	88	182	106	22	167	449	27	12	4.2	3.7	2.3
11	25	60	150	101	22	145	362	26	11	3.9	3.7	2.3
12	14	53	142	93	21	127	298	25	11	3.9	3.2	2.3
13	10	50	124	89	27	114	253	25	11	3.9	3.4	2.3
14	7.0	60	100	82	50	103	211	24	10	3.7	5.4	2.3
15	5.2	550	86	78	34	94	192	22	9.8	3.4	8.0	2.3
16	4.8	387	76	76	156	86	164	22	8.7	3.2	6.9	2.3
17	4.4	277	68	72	103	75	147	22	8.7	3.9	6.9	2.3
18	4.6	206	60	69	91	91	127	20	7.6	3.7	13	2.3
19	4.5	161	55	69	122	75	112	20	7.6	3.4	8.0	2.3
20	4.3	158	50	68	103	66	103	19	7.2	3.2	6.6	2.3
21	3.9	117	75	63	91	62	93	18	7.2	3.2	5.7	2.3
22	3.8	111	97	60	78	62	86	17	6.6	3.0	6.0	2.3
23	3.8	106	73	57	72	56	80	17	6.9	2.3	5.4	2.1
24	3.9	93	67	54	69	68	71	16	6.9	2.3	4.5	2.1
25	190	80	62	51	425	64	66	15	6.6	2.3	4.2	2.1
26	135	66	63	48	1240	59	60	15	6.6	2.3	4.2	2.1
27	62	74	57	47	987	56	58	15	6.3	2.3	4.2	2.1
28	51	85	53	43	1000	56	53	14	6.0	3.2	3.9	2.1
29	59	75	49	40	905	54	49	15	5.4	3.9	3.7	2.1
30	215	85	47	37	---	50	45	14	5.4	3.9	3.4	2.1
31	140	---	45	34	---	70	---	15	---	3.7	3.4	---
TOTAL	976.5	3523	4840	1947	5867	5160	4062	733	280.5	115.4	152.0	72.4
MEAN	31.5	117	156	62.8	202	166	135	23.6	9.35	3.72	4.90	2.41
MAX	215	550	707	131	1240	686	449	42	14	5.4	13	3.2
MIN	1.4	46	45	34	21	50	45	14	5.4	2.3	3.2	2.1
AC-FT	1940	6990	9600	3860	11640	10230	8060	1450	556	229	301	144

CAL YR 1975 TOTAL 53065.9 MEAN 145 MAX 2750 MIN 1.4 AC-FT 105300
WTR YR 1976 TOTAL 27728.8 MEAN 75.8 MAX 1240 MIN 1.4 AC-FT 55000

11476600 BULL CREEK NEAR WEOTT, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to September 1976.
WATER TEMPERATURES: October 1975 to September 1976.
SEDIMENT RECORDS: October 1975 to September 1976.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1975 to September 1976.
SEDIMENT RECORDS: October 1975 to September 1976.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum observed, 27.0°C June 18, July 13, 15, 30; minimum observed, 4.0°C Jan. 2.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 7,220 mg/L Feb. 26; minimum daily mean, 1 mg/L on many days during October and May to August.
SEDIMENT DISCHARGE: Maximum daily, 25,500 tons (23,100 tonnes) Feb. 26; minimum daily, 0 tons (0 tonnes) Oct. 5, 6.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	14.0	9.0	5.0	11.0	8.0	12.0	---	---	---	---	20.0
2	19.0	13.0	10.0	4.0	---	8.5	12.0	13.0	18.0	24.0	---	---
3	---	16.0	12.0	7.0	8.0	7.0	12.0	---	---	---	19.0	---
4	20.0	14.0	12.0	9.0	13.0	10.0	16.0	12.0	---	---	18.0	27.0
5	---	13.0	12.0	9.0	---	11.0	12.0	---	13.0	---	---	---
6	18.0	12.0	12.0	6.0	9.0	9.0	14.0	---	---	22.0	17.0	---
7	14.0	11.0	13.0	7.0	---	10.0	10.0	---	---	---	---	---
8	13.0	---	8.0	8.0	7.0	12.0	9.0	21.0	20.0	25.0	---	---
9	14.0	8.0	8.0	9.0	---	11.0	10.0	---	17.0	---	---	---
10	14.0	10.0	9.0	7.0	---	10.0	11.0	15.0	---	25.0	---	---
11	17.0	---	8.0	9.0	11.0	8.0	10.0	---	21.0	---	26.0	---
12	18.0	10.0	7.0	9.0	---	9.0	9.0	21.0	---	---	---	---
13	18.0	8.0	9.0	7.0	10.0	---	10.0	---	18.0	27.0	15.0	23.0
14	16.0	12.0	7.0	7.5	8.0	8.0	---	20.0	24.5	---	---	---
15	18.0	12.0	9.0	9.0	9.0	12.0	9.0	---	---	27.0	---	---
16	17.0	10.0	9.0	9.0	8.0	15.0	12.0	15.0	22.0	---	18.0	18.0
17	15.0	10.0	8.0	9.0	11.0	15.0	12.0	---	---	24.5	17.0	---
18	15.0	8.0	7.0	7.0	10.0	12.0	13.0	18.5	27.0	---	---	19.0
19	---	8.0	---	8.0	8.0	12.0	16.0	17.0	---	---	20.0	---
20	---	10.0	5.0	7.0	10.0	11.0	6.0	---	---	20.0	19.0	21.0
21	15.0	---	8.0	7.0	9.0	12.0	14.0	15.0	19.0	---	---	---
22	12.0	10.0	10.0	7.0	10.0	12.0	16.0	---	---	---	---	---
23	15.0	12.0	8.0	7.0	8.0	13.0	12.0	---	21.0	---	25.0	19.0
24	14.0	11.0	11.0	8.0	8.0	9.0	12.0	17.0	---	19.0	---	---
25	12.0	11.0	9.0	7.0	10.0	10.0	---	---	---	---	---	20.0
26	14.0	9.0	11.0	7.0	11.0	10.0	15.5	---	---	---	---	---
27	11.0	9.0	11.0	8.0	11.0	11.0	---	14.0	---	---	19.0	18.0
28	10.0	8.0	5.0	9.0	10.0	12.0	15.0	13.0	12.0	---	---	---
29	12.0	9.0	6.0	9.0	9.0	13.0	---	---	---	18.0	---	---
30	12.0	8.0	5.0	---	---	12.0	14.5	---	21.0	27.0	20.0	20.0
31	14.0	---	8.0	---	---	10.0	---	14.0	---	---	---	---
MONTH	15.0	10.5	9.0	7.5	9.5	11.0	12.0	---	---	---	---	---

11476600 BULL CREEK NEAR WEOTT, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.4	2	.01	90	112	27	133	105	38
2	1.5	4	.02	75	48	9.7	117	70	22
3	1.5	2	.01	65	30	5.3	106	50	14
4	1.5	2	.01	59	18	2.9	432	2380	4560
5	1.5	1	0	53	25	3.6	707	3070	6220
6	1.5	1	0	60	30	4.9	576	1700	2640
7	1.6	10	.04	80	150	32	417	980	1100
8	1.8	3	.01	53	40	5.7	324	620	542
9	3.0	150	1.2	46	17	2.1	247	400	267
10	10	600	16	88	180	43	182	243	119
11	25	200	13	60	110	18	150	157	64
12	14	16	.60	53	40	5.7	142	97	37
13	10	6	.16	50	25	3.4	124	70	23
14	7.0	3	.06	60	38	6.2	100	44	12
15	5.2	5	.07	550	1490	2210	86	37	8.6
16	4.8	2	.03	387	900	940	76	33	6.8
17	4.4	1	.01	277	550	411	68	28	5.1
18	4.6	6	.07	206	340	189	60	27	4.4
19	4.5	1	.01	161	200	87	55	24	3.6
20	4.3	1	.01	158	115	49	50	18	2.4
21	3.9	1	.01	117	62	20	75	159	47
22	3.8	1	.01	111	38	11	97	80	21
23	3.8	1	.01	106	27	7.7	73	33	6.5
24	3.9	7	.07	93	18	4.5	67	25	4.5
25	190	1360	1370	80	16	3.5	62	19	3.2
26	135	680	248	66	20	3.6	63	30	5.1
27	62	421	79	74	53	11	57	27	4.2
28	51	180	25	85	43	9.9	53	21	3.0
29	59	389	137	75	27	5.5	49	18	2.4
30	215	755	438	85	55	13	47	15	1.9
31	140	300	113	---	---	---	45	12	1.5
TOTAL	976.5	---	2441.42	3523	---	4145.2	4840	---	15789.2

	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	41	10	1.1	33	6	.53	686	1450	2690
2	38	13	1.3	32	5	.43	587	950	1510
3	37	12	1.2	30	3	.24	488	580	764
4	36	11	1.1	28	7	.53	385	290	301
5	37	18	1.8	27	6	.44	307	150	124
6	38	17	1.7	26	5	.35	272	94	69
7	38	15	1.5	25	3	.20	237	65	42
8	114	287	116	25	2	.14	211	51	29
9	131	125	44	23	2	.12	187	40	20
10	106	55	16	22	3	.18	167	33	15
11	101	70	19	22	3	.18	145	28	11
12	93	62	16	21	3	.17	127	25	8.6
13	89	42	10	27	16	1.3	114	22	6.8
14	82	31	6.9	50	100	23	103	19	5.3
15	78	22	4.6	34	25	2.3	94	16	4.1
16	76	16	3.3	156	916	512	86	16	3.7
17	72	14	2.7	103	270	75	75	15	3.0
18	69	14	2.6	91	400	98	91	34	9.3
19	69	14	2.6	122	135	47	75	15	3.0
20	68	9	1.7	103	55	15	66	12	2.1
21	63	10	1.7	91	37	9.1	62	11	1.8
22	60	10	1.6	78	29	6.1	62	17	3.1
23	57	10	1.5	72	24	4.7	56	7	1.1
24	54	6	.87	69	28	5.9	68	14	2.7
25	51	7	.96	425	1980	2930	64	9	1.6
26	48	7	.91	1240	7220	25500	59	10	1.6
27	47	5	.63	987	3290	8870	56	11	1.7
28	43	5	.58	1000	2750	7420	56	10	1.5
29	40	6	.65	905	2540	6310	54	7	1.0
30	37	6	.60	---	---	---	50	6	.81
31	34	6	.55	---	---	---	70	44	8.9
TOTAL	1947	---	265.65	5867	---	51832.91	5160	---	5646.71

11476600 BULL CREEK NEAR WEOTT, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	63	20	3.4	42	4	.45	14	2	.08
2	58	9	1.4	39	4	.42	13	1	.04
3	56	6	.91	37	4	.40	13	1	.04
4	54	6	.87	36	4	.39	12	2	.06
5	53	10	1.4	34	4	.37	12	3	.10
6	58	10	1.6	33	4	.36	12	2	.06
7	149	295	179	31	4	.33	12	2	.06
8	234	308	198	29	4	.31	12	3	.10
9	258	669	656	29	4	.31	12	4	.13
10	449	1080	1310	27	5	.36	12	3	.10
11	362	470	459	26	5	.35	11	3	.09
12	298	290	233	25	5	.34	11	3	.09
13	253	130	89	25	4	.27	11	2	.06
14	211	81	46	24	3	.19	10	3	.08
15	192	62	32	22	2	.12	9.8	4	.11
16	164	46	20	22	1	.06	8.7	3	.07
17	147	36	14	22	2	.12	8.7	3	.07
18	127	29	9.9	20	4	.22	7.6	3	.06
19	112	23	7.0	20	3	.16	7.6	2	.04
20	103	18	5.0	19	2	.10	7.2	2	.04
21	93	14	3.5	18	1	.05	7.2	1	.02
22	86	10	2.3	17	1	.05	6.6	1	.02
23	80	8	1.7	17	1	.05	6.9	1	.02
24	71	8	1.5	16	2	.09	6.9	2	.04
25	66	7	1.2	15	2	.08	6.6	2	.04
26	60	7	1.1	15	3	.12	6.6	2	.04
27	58	5	.78	15	4	.16	6.3	2	.03
28	53	4	.57	14	2	.08	6.0	3	.05
29	49	4	.53	15	2	.08	5.4	3	.04
30	45	4	.49	14	2	.08	5.4	3	.04
31	---	---	---	15	2	.08	---	---	---
TOTAL	4062	---	3281.15	733	---	6.55	280.5	---	1.82

	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	5.4	4	.06	3.7	1	.01	3.2	5	.04
2	5.4	5	.07	3.7	1	.01	3.0	4	.03
3	5.1	4	.06	3.6	1	.01	3.0	4	.03
4	4.8	3	.04	3.7	1	.01	2.8	8	.06
5	4.8	3	.04	3.7	1	.01	2.8	7	.05
6	4.5	3	.04	3.9	1	.01	2.8	7	.05
7	4.2	4	.05	4.2	4	.05	2.8	7	.05
8	4.2	5	.06	4.2	3	.03	2.8	6	.05
9	4.2	4	.05	3.9	3	.03	2.5	5	.03
10	4.2	6	.07	3.7	2	.02	2.3	4	.02
11	3.9	5	.05	3.7	2	.02	2.3	4	.02
12	3.9	4	.04	3.2	2	.02	2.3	4	.02
13	3.9	5	.05	3.4	3	.03	2.3	6	.04
14	3.7	3	.03	5.4	5	.07	2.3	8	.05
15	3.4	2	.02	8.0	6	.13	2.3	5	.03
16	3.2	2	.02	6.9	4	.07	2.3	4	.02
17	3.9	4	.04	6.9	5	.09	2.3	4	.02
18	3.7	3	.03	13	8	.28	2.3	4	.02
19	3.4	2	.02	8.0	5	.11	2.3	4	.02
20	3.2	1	.01	6.6	4	.07	2.3	6	.04
21	3.2	1	.01	5.7	3	.05	2.3	4	.02
22	3.0	1	.01	6.0	4	.06	2.3	3	.02
23	2.3	1	.01	5.4	7	.10	2.1	2	.01
24	2.3	1	.01	4.5	6	.07	2.1	3	.02
25	2.3	1	.01	4.2	5	.06	2.1	5	.03
26	2.3	1	.01	4.2	5	.06	2.1	3	.02
27	2.3	1	.01	4.2	7	.08	2.1	2	.01
28	3.2	1	.01	3.9	7	.07	2.1	2	.01
29	3.9	1	.01	3.7	7	.07	2.1	2	.01
30	3.9	1	.01	3.4	7	.06	2.1	2	.01
31	3.7	1	.01	3.4	6	.06	---	---	---
TOTAL	115.4	---	.96	152.0	---	1.82	72.4	---	.85
YEAR	27728.8		83414.24						

11476600 BULL CREEK NEAR WEOTT, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
OCT											
09...	1610	14.0	3.0	--	875	7.1	41	56	74	89	95
10...	2100	14.0	10	--	1860	50	35	50	68	84	94
25...	1300	12.0	--	201	3120	1690	33	46	62	79	91
NOV											
10...	1710	10.0	--	89	187	45	--	--	--	--	--
15...	0650	12.0	--	580	2800	4390	25	38	53	67	79
16...	1310	10.0	--	387	865	904	29	42	57	72	81
DEC											
04...	1040	12.0	--	286	1710	1320	17	27	41	58	74
04...	1635	12.0	--	846	6270	14300	24	31	43	59	70
04...	1930	11.0	--	737	3800	7560	22	34	47	61	72
05...	1540	12.0	--	913	4140	10200	22	32	45	58	70
10...	1200	9.0	--	184	246	122	--	--	--	--	--
10...	1920	7.0	--	165	195	87	--	--	--	--	--
JAN											
08...	0905	8.0	--	74	265	53	--	--	--	--	--
FEB											
25...	2005	10.0	--	524	2400	3400	21	31	44	58	70
27...	1955	11.0	--	1180	4420	14100	22	34	47	61	74
27...	2400	10.0	--	1150	3890	12100	22	33	46	60	72
MAR											
02...	1550	8.5	--	563	901	1370	--	--	--	--	--
09...	1900	--	--	183	38	19	--	--	--	--	--
APR											
13...	2345	10.0	--	234	96	61	--	--	--	--	--

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
OCT										
09...	--	98	--	98	--	99	--	100	--	--
10...	97	--	98	--	99	--	100	--	--	--
25...	97	--	99	--	100	--	--	--	--	--
NOV										
10...	--	80	--	83	--	86	--	94	100	--
15...	85	--	92	--	100	--	--	--	--	--
16...	--	86	--	92	--	98	--	100	--	--
DEC										
04...	83	--	92	--	99	--	100	--	--	--
04...	77	--	88	--	97	--	100	--	--	--
04...	78	--	87	--	96	--	100	--	--	--
05...	77	--	87	--	96	--	100	--	--	--
10...	--	74	--	79	--	86	--	94	100	--
10...	--	84	--	90	--	94	--	98	98	100
JAN										
08...	--	97	--	99	--	100	--	--	--	--
FEB										
25...	--	80	--	90	--	98	--	100	--	--
27...	--	82	--	89	--	96	--	99	100	--
27...	--	78	--	86	--	94	--	98	98	100
MAR										
02...	--	78	--	83	--	90	--	95	96	100
09...	--	--	--	--	--	98	--	100	--	--
APR										
13...	--	93	--	96	--	98	--	100	--	--

11477000 EEL RIVER AT SCOTIA, CA

LOCATION.--Lat 40°29'30", long 124°05'55", in SW¼ sec.5, T.1 N., R.1 E., Humboldt County, near center of span in left pier of bridge on U.S. Highway 101, 0.5 mi (0.8 km) north of Scotia, and 6 mi (10 km) upstream from Van Duzen River.

DRAINAGE AREA.--3,113 mi^2 (8,063 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1910 to current year. Monthly discharge only for some periods and yearly estimates for 1915-16, published in WSP 1315-B.

REVISED RECORDS.--WSP 931: 1938. WSP 1315-B: 1914-15(M), 1917(M), 1927-28(M), 1936(M), 1939(M). WSP 1345: Drainage area. WSP 1715: 1959.

GAGE.--Water-stage recorder. Datum of gage is 35.50 ft (10.820 m) above mean sea level. Prior to Dec. 12, 1940, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow slightly regulated by Lake Pillsbury (station 11470000) 138 mi (222 km) upstream and by diversion through Potter Valley powerhouse (station 11471000).

AVERAGE DISCHARGE.--66 years, 7,373 ft^3/s (208.8 m^3/s), 5,342,000 acre-ft/yr (6.59 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 752,000 ft^3/s (21,300 m^3/s) Dec. 23, 1964, gage height, 72.0 ft (21.95 m) from floodmarks, from rating curve extended above 220,000 ft^3/s (6,230 m^3/s) on basis of maximum flow at upstream stations; minimum observed, 10 ft^3/s (0.28 m^3/s) Aug. 12-14, 1924.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 72,000 ft^3/s (2,040 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 26	2200	*109000	3090	29.03	8.848
Mar. 1	0015	79800	2260	25.50	7.772

Minimum daily discharge, 106 ft^3/s (3.00 m^3/s) Oct. 1, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	4000	2610	2030	1220	60100	3630	2630	803	247	144	184
2	111	2860	3240	1870	1170	33600	3430	2590	771	245	133	166
3	110	1900	3030	1730	1130	24900	3130	2580	749	239	129	159
4	108	1440	4280	1650	1100	18600	2920	2470	764	242	140	148
5	106	900	31000	1740	1060	14400	2770	2370	831	245	144	135
6	114	880	28000	1950	1020	11800	2820	2280	807	242	147	130
7	129	1300	15800	1840	979	10100	3530	2220	787	232	144	120
8	157	2450	9760	2340	942	9070	11200	2110	761	232	144	118
9	170	2150	7190	8290	913	8190	13400	2070	742	225	150	119
10	450	2610	5690	7000	900	7340	13100	2030	744	218	147	115
11	700	4460	4710	6040	879	6620	15200	1940	751	224	143	111
12	740	3290	4500	5090	859	5980	13200	1850	744	218	141	107
13	530	2350	4500	4510	871	5400	11600	1730	712	214	140	107
14	425	1900	3990	4020	1200	4920	9580	1630	672	210	159	109
15	340	8570	3440	3620	2810	4580	8220	1590	625	207	183	183
16	290	19400	3030	3330	6780	4310	7250	1500	584	202	214	191
17	250	10600	2780	3040	11100	4050	6380	1390	559	198	251	130
18	270	6170	2550	2820	8690	4120	5830	1300	532	197	282	110
19	250	4290	2320	2630	8540	4630	5480	1240	502	190	416	107
20	235	3690	2130	2410	10400	4430	5110	1180	477	181	418	108
21	220	3550	2090	2210	7970	3940	5030	1140	450	175	376	108
22	210	3060	4160	2040	6270	3730	4780	1070	418	174	367	111
23	200	2510	5060	1920	5180	3640	4500	993	398	170	346	113
24	195	2130	4000	1830	4420	3690	4260	948	386	171	282	115
25	500	1890	3350	1730	9250	4240	4010	899	373	171	244	117
26	8300	1750	3030	1640	98000	4220	3870	903	327	161	259	113
27	6000	1750	2890	1550	78300	3750	3580	878	317	162	262	112
28	3250	1730	2650	1460	65200	3580	3340	850	312	153	233	112
29	2350	1600	2470	1400	56900	3380	3070	835	295	147	226	117
30	5350	1530	2330	1330	---	3160	2790	826	255	146	202	115
31	5800	---	2210	1270	---	3430	---	815	---	143	192	---
TOTAL	37966	106710	178790	86330	394053	287900	187010	48857	17448	6181	6758	3790
MEAN	1225	3557	5767	2785	13590	9287	6234	1576	582	199	218	126
MAX	8300	19400	31000	8290	98000	60100	15200	2630	831	247	418	191
MIN	106	880	2090	1270	859	3160	2770	815	255	143	129	107
AC-FT	75310	211700	354600	171200	781600	571000	370900	96910	34610	12260	13400	7520

CAL YR 1975 TOTAL 3645579 MEAN 9988 MAX 186000 MIN 103 AC-FT 7231000
WTR YR 1976 TOTAL 1361793 MEAN 3721 MAX 98000 MIN 106 AC-FT 2701000

11477000 EEL RIVER AT SCOTIA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952 to current year.
CHEMICAL ANALYSES: Water years 1952-75.
WATER TEMPERATURES: Water years 1958 to current year.
SEDIMENT RECORDS: Water years 1955 to current year.
TURBIDITY: Water years 1965-68, 1972-73.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1957 to current year.
SEDIMENT RECORDS: October 1957 to current year.

INSTRUMENTATION.--Temperature recorder since November 1960.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1961-64, 1966-72, 1975-76), 25.0°C Aug. 21, 22, 1971; minimum (water years 1958-73, 1975-76), 2.0°C Dec. 11, 1972.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 33,000 mg/L (estimated) Dec. 23, 1964; minimum daily mean, 1 mg/L on many days in 1958-64, 1966-67, 1970, 1972-75.
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.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 23.5°C July 8, Sept. 30; minimum, 5.5°C Jan. 2.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 4,420 mg/L Feb. 26; minimum daily mean, 1 mg/L on several days during October, June, and September.
SEDIMENT DISCHARGE: Maximum daily, 1,170,000 tons (1,060,000 tonnes) Feb. 26; minimum daily, 0.29 ton (0.26 tonne) Oct. 5, Sept. 19-21.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

11477000 EEL RIVER AT SCOTIA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	APR MAX	APR DAILY	APR MIN	MAY MAX	MAY DAILY	MAY MIN	JUN MAX	JUN DAILY	JUN MIN	JUL MAX	JUL DAILY	JUL MIN	AUG MAX	AUG DAILY	AUG MIN	SEP MAX	SEP DAILY	SEP MIN
1	11.5	--	10.0	--	--	--	17.5	--	15.5	21.0	--	18.0	22.0	--	20.5	20.0	--	18.0
2	11.5	--	10.0	--	--	--	17.0	--	15.5	21.0	--	18.5	21.5	--	20.5	19.5	--	17.5
3	11.5	--	11.0	--	15.5	--	17.0	--	15.5	21.5	--	19.0	20.5	--	20.0	20.5	--	17.5
4	12.0	--	11.0	15.5	--	15.0	17.5	--	15.5	22.5	--	20.0	20.5	--	19.5	20.0	--	18.5
5	12.5	--	12.0	15.5	--	14.5	17.0	--	15.0	23.0	--	21.0	20.5	--	19.5	20.5	--	18.5
6	12.5	--	11.5	15.5	--	14.0	15.0	--	15.0	22.5	--	21.0	20.0	--	19.5	20.5	--	18.5
7	12.0	--	11.0	17.0	--	14.5	15.0	--	15.0	23.0	--	21.5	20.0	--	19.5	19.5	--	17.0
8	11.5	--	10.5	17.5	--	16.0	18.0	--	15.0	23.5	--	21.0	20.0	--	19.0	20.0	--	17.0
9	10.5	--	10.0	18.5	--	17.0	17.5	--	16.5	22.5	--	20.5	22.0	--	18.5	21.0	--	18.0
10	10.5	--	9.5	18.5	--	17.5	16.5	--	16.5	21.5	--	19.5	22.5	--	20.0	21.5	--	19.0
11	10.0	--	9.5	18.0	--	17.0	17.5	--	16.0	21.0	--	19.5	22.0	--	20.0	21.0	--	19.5
12	10.0	--	9.5	19.0	--	16.5	17.5	--	17.5	20.5	--	19.5	21.0	--	20.0	21.5	--	19.0
13	10.5	--	9.5	19.0	--	17.5	18.5	--	16.5	20.5	--	19.0	20.5	--	19.0	21.5	--	18.5
14	--	12.5	--	17.5	--	16.5	19.5	--	16.5	22.0	--	19.0	19.0	--	18.5	20.0	--	18.5
15	--	11.0	--	18.5	--	16.0	20.0	--	17.5	23.0	--	20.0	19.5	--	19.0	19.5	--	17.5
16	--	11.5	--	18.0	--	16.0	20.0	--	18.5	22.0	--	20.0	19.0	--	18.0	20.0	--	19.0
17	--	12.5	--	16.5	--	15.0	21.0	--	17.5	20.0	--	19.5	18.0	--	17.5	21.0	--	19.0
18	--	12.5	--	16.0	--	15.0	21.5	--	19.0	19.5	--	18.5	18.5	--	17.5	21.5	--	19.0
19	--	14.0	--	17.0	--	15.0	21.0	--	19.5	21.0	--	18.5	21.0	--	18.0	21.5	--	19.0
20	--	14.0	--	18.0	--	15.0	20.0	--	19.0	21.5	--	19.0	20.0	--	18.5	21.0	--	20.0
21	--	14.5	--	18.5	--	16.0	19.0	--	18.0	22.0	--	20.5	20.0	--	17.5	22.0	--	20.5
22	--	14.5	--	18.0	--	16.5	20.0	--	17.5	22.0	--	21.0	20.5	--	18.0	22.5	--	21.0
23	--	14.5	--	18.0	--	16.5	21.0	--	18.0	22.0	--	21.0	21.0	--	19.0	22.0	--	20.0
24	--	--	--	18.5	--	17.0	21.5	--	18.5	22.5	--	21.0	21.5	--	19.5	22.0	--	19.5
25	--	14.0	--	18.5	--	17.5	21.0	--	19.0	22.5	--	20.5	20.5	--	18.0	22.0	--	20.5
26	--	--	--	19.5	--	16.5	21.0	--	19.0	22.5	--	21.0	20.5	--	18.5	22.0	--	19.5
27	--	--	--	18.5	--	15.5	22.0	--	18.5	23.0	--	20.5	20.5	--	18.5	22.0	--	20.5
28	--	15.0	--	16.0	--	15.0	21.5	--	19.0	23.0	--	20.5	21.5	--	19.0	21.5	--	20.0
29	--	--	--	15.5	--	14.5	21.0	--	19.5	23.0	--	20.5	21.5	--	19.5	23.0	--	20.5
30	--	18.0	--	15.5	--	15.0	20.5	--	19.0	22.5	--	20.5	21.0	--	19.0	23.5	--	21.0
31	--	--	--	15.5	--	15.0	--	--	--	22.0	--	20.0	20.5	--	19.0	--	--	--
MONTH	--	--	--	19.5	--	14.0	22.0	--	15.0	23.5	--	18.0	22.5	--	17.5	23.5	--	17.0

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER MEAN DISCHARGE (CFS)	OCTOBER MEAN CONCENTRATION (MG/L)	OCTOBER SEDIMENT DISCHARGE (TONS/DAY)	NOVEMBER MEAN DISCHARGE (CFS)	NOVEMBER MEAN CONCENTRATION (MG/L)	NOVEMBER SEDIMENT DISCHARGE (TONS/DAY)	DECEMBER MEAN DISCHARGE (CFS)	DECEMBER MEAN CONCENTRATION (MG/L)	DECEMBER SEDIMENT DISCHARGE (TONS/DAY)
1	106	3	.86	4000	108	1170	2610	74	601
2	111	3	.90	2860	55	425	3240	70	612
3	110	3	.89	1900	28	144	3030	48	393
4	108	2	.58	1440	17	66	4280	204	4100
5	106	1	.29	900	13	32	31000	1630	136000
6	114	1	.31	880	11	26	28000	1580	119000
7	129	2	.70	1300	15	53	15800	648	28800
8	157	4	1.7	2450	39	258	9760	348	9170
9	170	14	6.4	2150	34	197	7190	219	4250
10	450	25	30	2610	29	204	5690	140	2150
11	700	62	117	4460	107	1320	4710	91	1160
12	740	43	86	3290	52	462	4500	73	887
13	530	21	30	2350	23	146	4500	63	765
14	425	13	15	1900	15	77	3990	45	485
15	340	9	8.3	8570	394	12700	3440	28	260
16	290	7	5.5	19400	757	40600	3030	19	155
17	250	6	4.1	10600	412	12400	2780	14	105
18	270	5	3.6	6170	175	2920	2550	10	69
19	250	5	3.4	4290	75	869	2320	9	56
20	235	4	2.5	3690	50	498	2130	8	46
21	220	3	1.8	3550	38	364	2090	17	96
22	210	3	1.7	3060	27	223	4160	144	1770
23	200	3	1.6	2510	19	129	5060	142	1940
24	195	3	1.6	2130	14	81	4000	70	756
25	500	46	62	1890	10	51	3350	33	298
26	8300	593	13300	1750	9	43	3030	20	164
27	6000	460	7450	1750	9	43	2890	16	125
28	3250	240	2110	1730	8	37	2650	12	86
29	2350	107	679	1600	8	35	2470	9	60
30	5350	332	4800	1530	7	29	2330	10	63
31	5800	280	4380	---	---	---	2210	8	48
TOTAL	37966	---	33105.73	106710	---	75602	178790	---	314470

11477000 EEL RIVER AT SCOTIA, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	2030	7	38	1220	3	9.9	60100	1560	269000
2	1870	5	25	1170	3	9.5	33600	860	78000
3	1730	5	23	1130	3	9.2	24900	600	40300
4	1650	5	22	1100	4	12	18600	477	24000
5	1740	7	33	1060	3	8.6	14400	417	16200
6	1950	8	42	1020	3	8.3	11800	382	12200
7	1840	10	50	979	2	5.3	10100	391	10700
8	2340	34	319	942	2	5.1	9070	400	9800
9	8290	629	14300	913	2	4.9	8190	372	8230
10	7000	350	6610	900	2	4.9	7340	262	5190
11	6040	160	2610	879	2	4.7	6620	145	2590
12	5090	91	1250	859	2	4.6	5980	90	1450
13	4510	56	682	871	5	12	5400	65	948
14	4020	35	380	1200	27	94	4920	51	677
15	3620	25	244	2810	56	425	4580	44	544
16	3330	20	180	6780	369	8290	4310	39	454
17	3040	16	131	11100	793	24200	4050	35	383
18	2820	13	99	8690	420	9850	4120	38	423
19	2630	9	64	8540	280	6460	4630	57	713
20	2410	7	46	10400	328	9210	4430	48	574
21	2210	6	36	7970	208	4480	3940	33	351
22	2040	5	28	6270	127	2150	3730	25	252
23	1920	4	21	5180	67	937	3640	21	206
24	1830	4	20	4420	43	513	3690	21	209
25	1730	4	19	9250	698	28700	4240	52	595
26	1640	4	18	98000	4420	1170000	4220	37	422
27	1550	4	17	78300	2220	482000	3750	21	213
28	1460	5	20	65200	1900	360000	3580	16	155
29	1400	4	15	56900	1600	272000	3380	13	119
30	1330	3	11	---	---	---	3160	12	102
31	1270	3	10	---	---	---	3430	38	352
TOTAL	86330	---	27363	394053	---	2379408	287900	---	485352

	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	3630	27	265	2630	8	57	803	2	4.3
2	3430	16	148	2590	7	49	771	2	4.2
3	3130	12	101	2580	7	49	749	2	4.0
4	2920	9	71	2470	6	40	764	2	4.1
5	2770	9	67	2370	5	32	831	14	31
6	2820	10	76	2280	4	25	807	10	22
7	3530	41	479	2220	3	18	787	8	17
8	11200	549	20000	2110	3	17	761	8	16
9	13400	578	20900	2070	4	22	742	10	20
10	13100	603	21700	2030	5	27	744	8	16
11	15200	589	24200	1940	4	21	751	6	12
12	13200	528	18800	1850	4	20	744	2	4.0
13	11600	346	10800	1730	4	19	712	2	3.8
14	9580	278	7190	1630	4	18	672	1	1.8
15	8220	220	4880	1590	3	13	625	2	3.4
16	7250	135	2640	1500	2	8.1	584	2	3.2
17	6380	85	1460	1390	3	11	559	2	3.0
18	5830	62	976	1300	4	14	532	2	2.9
19	5480	44	651	1240	3	10	502	2	2.7
20	5110	39	538	1180	3	9.6	477	2	2.6
21	5030	36	489	1140	3	9.2	450	2	2.4
22	4780	37	478	1070	2	5.8	418	2	2.3
23	4500	34	413	993	2	5.4	398	2	2.1
24	4260	30	345	948	2	5.1	386	2	2.1
25	4010	27	292	899	2	4.9	373	2	2.0
26	3870	20	209	903	2	4.9	327	2	1.8
27	3580	16	155	878	2	4.7	317	3	2.6
28	3340	12	108	850	2	4.6	312	3	2.5
29	3070	10	83	835	2	4.5	295	3	2.4
30	2790	8	60	826	2	4.5	255	3	2.1
31	---	---	---	815	2	4.4	---	---	---
TOTAL	187010	---	138574	48857	---	537.7	17448	---	200.3

11477000 EEL RIVER AT SCOTIA, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	247	3	2.0	144	2	.78	184	2	.99
2	245	3	2.0	133	2	.72	166	4	1.8
3	239	3	1.9	129	2	.70	159	3	1.3
4	242	3	2.0	140	2	.76	148	3	1.2
5	245	3	2.0	144	2	.78	135	2	.73
6	242	3	2.0	147	2	.79	130	2	.70
7	232	3	1.9	144	2	.78	120	2	.65
8	232	3	1.9	144	2	.78	118	2	.64
9	225	2	1.2	150	2	.81	119	2	.64
10	218	2	1.2	147	2	.79	115	2	.62
11	224	2	1.2	143	2	.77	111	2	.60
12	218	2	1.2	141	3	1.1	107	2	.58
13	214	2	1.2	140	4	1.5	107	3	.87
14	210	2	1.1	159	2	.86	109	3	.88
15	207	3	1.7	183	2	.99	183	5	2.5
16	202	3	1.6	214	2	1.2	191	4	2.1
17	198	2	1.1	251	3	2.0	130	3	1.1
18	197	2	1.1	282	3	2.3	110	2	.59
19	190	2	1.0	416	8	9.0	107	1	.29
20	181	2	.98	418	6	6.8	108	1	.29
21	175	3	1.4	376	5	5.1	108	1	.29
22	174	4	1.9	367	4	4.0	111	2	.60
23	170	3	1.4	346	3	2.8	113	2	.61
24	171	3	1.4	282	3	2.3	115	2	.62
25	171	2	.92	244	2	1.3	117	2	.63
26	161	2	.87	259	3	2.1	113	2	.61
27	162	2	.87	262	2	1.4	112	2	.60
28	153	2	.83	233	2	1.3	112	2	.60
29	147	2	.79	226	2	1.2	117	3	.95
30	146	2	.79	202	2	1.1	115	3	.93
31	143	2	.77	192	2	1.0	---	---	---
TOTAL	6181	---	42.22	6758	---	57.81	3790	---	25.51
YEAR	1361793		3454738						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPER-ATURE (DEG C)	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
OCT										
26...	1550	13.0	8300	--	795	17800	37	48	65	76
30...	1715	13.0	5350	--	508	7340	44	57	76	89
DEC										
05...	1700	10.5	--	34600	2170	203000	21	31	43	57
22...	1600	9.0	--	4890	208	2750	--	--	--	--
23...	1600	9.5	--	5140	137	1900	--	--	--	--
JAN										
09...	1710	8.5	--	8610	707	16400	32	41	51	61
10...	1710	8.0	7000	--	268	5070	--	--	--	--
FEB										
17...	1700	9.0	--	10900	733	21600	25	31	43	54
20...	1700	--	--	10400	312	8760	--	--	--	--
25...	1120	9.0	--	6500	187	3280	--	--	--	--
26...	1705	--	--	96400	3990	1040000	23	32	43	56
27...	1745	--	--	64000	1920	332000	24	33	44	56
29...	1145	9.5	--	51700	1220	170000	26	34	45	56
MAR										
03...	1035	7.5	--	25400	594	40700	29	36	48	60
05...	1655	9.0	--	13700	405	15000	--	--	--	--
15...	1115	11.0	--	4650	44	552	--	--	--	--
APR										
08...	1700	11.5	--	14900	965	38800	20	26	34	43
10...	1700	10.5	--	14700	771	30600	22	27	34	40

11477000 EEL RIVER AT SCOTIA, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
OCT										
26...	84	--	89	--	99	--	100	--	--	--
30...	95	--	98	--	99	--	100	--	--	--
DEC										
05...	72	84	--	94	--	99	--	100	--	--
22...	--	--	78	--	84	--	99	--	100	--
23...	--	--	72	--	78	--	97	--	99	100
JAN										
09...	68	--	71	--	79	--	97	--	100	--
10...	--	--	64	--	73	--	95	--	100	--
FEB										
17...	64	--	70	--	78	--	92	--	100	--
20...	--	--	61	--	70	--	86	--	100	--
25...	--	--	52	--	56	--	78	--	100	--
26...	69	83	--	95	--	99	--	100	--	--
27...	69	81	--	93	--	100	--	--	--	--
29...	68	--	80	--	92	--	100	--	--	--
MAR										
03...	72	--	83	--	94	--	100	--	--	--
05...	--	--	61	--	76	--	96	--	100	--
15...	--	--	55	--	60	--	80	--	88	100
APR										
08...	53	--	66	--	82	--	94	--	100	--
10...	48	--	53	--	64	--	82	--	100	--

11478500 VAN DUZEN RIVER NEAR BRIDGEVILLE, CA

LOCATION.--Lat 40°28'50", long 123°53'23", in NE¼SE¼ sec.12, T.1 N., R.2 E., Humboldt County, on left bank at downstream side of bridge on State Highway 36, 0.9 mi (1.4 km) upstream from Grizzly Creek, and 5 mi (8 km) west of Bridgeville.

DRAINAGE AREA.--222 mi^2 (575 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 358.18 ft (109.173 m) above mean sea level. Prior to Oct. 1, 1965, at site 2.4 mi (3.9 km) upstream at different datum.

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

AVERAGE DISCHARGE.--26 years, 921 ft^3/s (26.08 m^3/s), 667,300 acre-ft/yr (823 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,700 ft^3/s (1,380 m^3/s) Dec. 22, 1964, gage height, 24.0 ft (7.32 m) from floodmarks, present site and datum, from rating curve extended above 20,000 ft^3/s (566 m^3/s) on basis of slope-area measurement at gage height 21.3 ft (6.49 m), former site and datum; minimum, 5.0 ft^3/s (0.14 m^3/s) Sept. 13, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,400 ft^3/s (464 m^3/s) Feb. 26 (0930 hrs), gage height, 14.15 ft (4.313 m), peak above base of 15,000 ft^3/s (425 m^3/s); minimum daily, 11 ft^3/s (0.31 m^3/s) Oct. 1-6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	494	1180	338	199	4140	512	308	94	32	14	19
2	11	346	767	309	193	2710	470	290	88	31	14	18
3	11	263	569	298	190	1940	419	265	83	31	14	17
4	11	215	2070	298	183	1520	387	242	79	30	14	17
5	11	183	4970	389	180	1220	356	223	78	29	14	17
6	11	470	3460	457	172	1040	413	210	76	28	15	16
7	12	927	1680	434	172	942	1400	210	75	27	15	16
8	13	504	1130	1610	169	862	2540	210	74	26	15	16
9	20	650	861	2660	168	777	1740	198	72	25	15	15
10	81	1500	696	1290	165	682	1910	192	73	24	15	14
11	260	900	592	996	162	584	1530	182	73	24	14	14
12	142	600	681	939	159	518	1250	171	70	23	14	14
13	86	470	600	778	173	470	1110	161	68	23	14	14
14	60	408	513	681	277	441	941	153	64	23	18	14
15	47	4970	452	594	380	419	875	148	61	22	27	13
16	41	2720	424	534	3130	392	745	140	58	21	57	13
17	36	1340	398	483	1980	381	636	133	56	21	53	13
18	41	889	366	435	1730	452	654	128	54	22	57	13
19	39	670	340	393	1500	525	577	124	51	22	57	13
20	36	591	312	366	1150	458	544	120	50	21	48	13
21	32	506	356	334	921	458	506	115	49	20	40	13
22	32	434	1030	309	762	464	494	110	49	20	34	13
23	33	396	722	292	645	512	452	106	46	19	33	13
24	32	351	556	280	556	722	447	104	45	19	32	12
25	830	315	487	261	2880	894	447	99	43	18	28	12
26	2770	303	474	246	11200	681	402	94	40	17	26	12
27	897	348	545	236	6390	570	361	91	37	17	24	12
28	817	321	457	228	6980	557	332	89	36	16	23	12
29	479	283	418	222	6500	494	313	88	34	16	22	12
30	2030	356	395	212	---	435	313	88	32	15	21	12
31	850	---	368	203	---	518	---	90	---	14	20	---
TOTAL	9782	22723	27869	17105	49266	26778	23076	4882	1808	696	807	422
MEAN	316	757	899	552	1699	864	769	157	60.3	22.5	26.0	14.1
MAX	2770	4970	4970	2660	11200	4140	2540	308	94	32	57	19
MIN	11	183	312	203	159	381	313	88	32	14	14	12
AC-FT	19400	45070	55280	33930	97720	53110	45770	9680	3590	1380	1600	837

CAL YR 1975 TOTAL 388529 MEAN 1064 MAX 22800 MIN 11 AC-FT 770600
WTR YR 1976 TOTAL 185214 MEAN 506 MAX 11200 MIN 11 AC-FT 367400

11478500 VAN DUZEN RIVER NEAR BRIDGEVILLE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1958 to current year.
CHEMICAL ANALYSES: Water years 1958 to current year.
WATER TEMPERATURES: Water years 1961 to current year.
SEDIMENT RECORDS: Water years 1955-67.
TURBIDITY: Water years 1964-67.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: December 1960 to current year.

INSTRUMENTATION.--Temperature recorder since December 1960.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES (water years 1961-64, 1966-76): Maximum, 29.5°C July 1, 2, 1967; minimum, 0.0°C Dec. 14, 1972

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 27.5°C July 8; minimum, 2.5°C Jan. 2.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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								
07...	1100	--	12	278	8.4	17.0	0	10.2
NOV								
04...	1205	--	215	191	7.8	14.0	4	9.8
DEC								
02...	1110	--	778	135	7.5	9.5	30	10.7
JAN								
06...	1215	--	452	139	7.5	7.5	20	12.5
FEB								
03...	1345	--	188	162	7.9	9.0	1	11.7
MAR								
02...	1130	--	2650	105	8.0	6.0	110	11.7
APR								
06...	1145	--	435	141	7.8	12.0	5	10.8
MAY								
04...	1120	242	--	157	7.8	15.0	1	10.0
JUN								
08...	0945	--	74	199	8.1	15.0	0	8.3
JUL								
13...	0945	--	23	248	8.0	18.0	1	9.7
AUG								
04...	0735	--	14	271	7.6	17.0	0	9.4
SEP								
14...	0930	--	14	278	8.0	18.0	1	10.2

DATE	TIME	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
FEB											
03...	1345	84	9	4.6	.2	92	0	75	2.5	--	--
APR											
06...	1145	63	5	4.4	.2	71	0	58	1.9	.00	.10

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (P04) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL ZINC (ZN) (UG/L)
FEB										
03...	--	--	--	0	--	--	--	--	--	--
APR										
06...	.05	.00	.00	100	0	0	310	0	20	20

11478500 VAN DUZEN RIVER NEAR BRIDGEVILLE, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.5	15.5	12.0	10.0	10.0	8.0	5.0	3.0	10.5	7.0	7.0	6.0
2	19.5	15.5	13.0	10.5	10.0	9.0	4.5	2.5	11.0	8.0	6.5	5.5
3	20.5	15.0	14.0	10.5	10.0	9.0	5.5	3.5	10.5	7.0	7.0	5.0
4	21.5	16.5	14.5	11.0	11.0	9.0	7.5	5.5	9.0	5.5	8.0	5.5
5	21.0	15.5	13.0	12.0	11.0	10.0	8.0	7.0	8.0	4.0	8.5	5.5
6	18.5	15.5	12.0	11.0	11.0	10.5	8.0	6.5	8.0	3.5	9.0	6.5
7	18.5	14.5	12.5	11.5	10.5	9.5	8.0	7.0	8.5	3.5	9.0	8.5
8	15.5	14.0	11.5	9.0	10.5	9.0	9.0	8.0	8.5	4.5	10.5	8.0
9	15.0	14.0	9.0	8.5	10.5	9.0	8.5	7.5	9.5	5.0	11.0	8.5
10	15.5	14.0	9.0	8.0	9.5	9.0	7.5	6.0	9.0	5.0	9.5	8.5
11	15.5	13.0	8.5	8.0	9.5	8.5	8.0	7.0	9.5	5.5	9.5	6.5
12	16.5	12.5	9.0	7.0	9.0	7.0	8.0	7.0	11.0	7.0	10.0	7.0
13	16.5	13.0	9.5	7.0	7.5	6.5	8.0	7.0	10.0	8.5	10.5	8.5
14	17.5	13.5	10.5	8.5	6.5	5.0	9.0	7.0	8.5	7.0	11.0	8.5
15	17.5	12.5	11.0	10.5	6.5	4.5	9.0	7.5	8.0	7.0	10.5	7.5
16	18.5	13.0	10.5	8.5	7.5	6.5	9.5	7.5	8.5	7.5	10.5	6.5
17	16.0	13.0	8.5	7.0	7.5	5.0	9.0	7.5	9.0	8.0	10.5	8.0
18	17.0	13.5	7.0	6.0	7.0	5.0	9.5	7.0	8.5	7.0	12.5	8.0
19	18.0	13.5	7.0	5.5	7.0	5.0	8.5	6.0	8.5	7.0	9.0	7.5
20	18.5	14.5	8.5	7.0	7.0	5.0	8.5	6.0	8.0	6.0	10.5	7.0
21	15.5	13.5	8.0	6.5	7.0	5.0	9.0	6.0	8.5	6.5	11.5	8.5
22	15.0	12.0	9.0	6.5	7.5	7.0	9.0	6.0	9.5	8.0	11.0	9.0
23	15.0	11.0	9.5	8.0	8.5	7.0	9.5	7.5	8.5	7.5	10.0	8.5
24	15.0	10.5	9.5	7.5	9.0	7.0	9.0	7.0	9.0	8.0	10.0	7.5
25	13.0	11.0	10.0	8.0	8.5	7.0	7.5	4.5	8.5	8.5	9.5	6.5
26	12.0	11.0	9.5	8.5	10.0	8.0	8.0	4.5	9.5	8.5	8.5	7.0
27	11.0	10.5	9.0	7.5	9.5	9.0	7.5	5.5	9.5	9.0	8.0	6.5
28	11.0	9.0	7.5	6.5	9.5	8.0	8.0	4.5	9.5	8.0	9.5	7.0
29	11.5	9.0	7.5	6.5	9.5	7.5	8.0	5.5	8.5	7.0	11.0	7.5
30	11.5	10.5	8.0	7.0	8.5	6.0	9.0	5.5	---	---	12.5	8.0
31	11.0	9.0	---	---	6.0	4.0	9.5	6.0	---	---	11.0	7.0
MONTH	21.5	9.0	14.5	5.5	11.0	4.0	9.5	2.5	11.0	3.5	12.5	5.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	6.0	17.5	13.0	19.5	13.5	24.0	17.0	23.5	18.5	19.0	16.5
2	10.0	6.5	17.0	12.0	20.0	13.0	25.0	17.5	21.5	18.5	19.5	15.0
3	9.5	8.5	18.0	12.5	20.0	13.5	24.5	17.0	20.5	18.5	19.5	14.5
4	11.5	8.5	17.0	13.0	20.5	14.0	26.5	18.0	22.0	18.0	20.0	14.0
5	11.0	9.5	15.5	12.5	17.5	14.5	27.0	20.0	21.5	18.0	21.5	14.5
6	11.0	9.0	17.5	11.5	17.0	14.0	26.0	18.0	21.0	18.0	21.5	16.0
7	10.0	8.0	19.5	11.5	18.0	14.0	27.0	20.5	22.0	18.0	22.0	16.0
8	9.5	7.5	20.0	14.0	16.5	14.5	27.5	20.5	21.0	17.5	24.0	15.0
9	8.5	7.5	20.5	14.5	18.0	15.5	25.5	20.0	25.5	17.5	25.0	17.0
10	8.5	8.0	19.5	14.0	18.0	14.5	26.0	19.5	25.0	18.0	23.5	17.0
11	10.0	7.0	20.0	14.0	19.5	14.5	24.5	19.0	23.5	18.5	21.5	17.0
12	10.0	6.5	22.0	13.0	18.0	16.0	23.5	19.5	22.5	18.5	22.5	17.5
13	10.5	7.0	19.5	15.5	22.0	15.0	22.5	18.5	20.5	18.0	22.5	17.0
14	11.5	8.0	19.5	14.5	23.5	15.0	26.5	18.0	22.0	17.5	21.5	17.0
15	11.0	8.0	21.0	13.0	23.5	15.5	26.0	18.5	20.0	17.5	21.0	16.0
16	11.5	9.0	17.5	14.0	22.0	17.5	23.0	19.0	20.5	17.0	19.5	16.5
17	12.0	10.0	19.0	12.0	25.5	17.0	20.0	18.5	18.5	17.0	22.0	17.0
18	11.0	9.5	19.0	13.5	25.5	18.0	19.0	17.0	19.5	17.0	22.5	17.0
19	14.0	9.0	19.5	13.0	24.0	18.5	24.5	17.0	23.5	17.0	22.5	17.0
20	15.0	10.5	20.0	13.5	22.0	18.0	25.0	17.5	21.0	18.0	21.5	18.0
21	14.5	11.5	21.0	14.0	21.0	17.0	25.5	19.0	23.5	17.0	22.0	18.0
22	15.0	11.0	21.0	15.0	23.5	16.5	25.0	19.5	25.0	18.0	22.0	17.5
23	14.0	11.0	21.0	14.5	25.0	17.0	25.0	19.0	25.5	18.0	22.0	17.0
24	14.5	11.0	21.5	15.0	25.5	16.0	25.0	19.5	25.0	19.5	22.0	16.0
25	13.5	9.0	21.5	15.5	24.5	17.5	25.5	19.0	24.0	19.0	21.0	16.0
26	14.5	9.0	23.0	15.0	24.5	15.5	25.0	19.0	23.5	17.5	21.0	15.0
27	15.5	8.5	18.0	14.5	26.0	16.0	25.5	18.0	25.0	18.0	19.5	17.0
28	15.5	9.5	19.5	13.0	25.5	16.5	25.5	17.5	25.5	17.5	21.0	17.0
29	17.0	11.0	16.5	13.0	25.0	18.0	25.0	19.0	26.0	18.5	22.0	16.0
30	18.5	11.0	17.5	14.5	24.0	17.5	24.0	18.0	25.5	19.0	22.5	17.0
31	---	---	19.0	14.0	---	---	23.5	18.0	25.0	18.5	---	---
MONTH	18.5	6.0	23.0	11.5	26.0	13.0	27.5	17.0	26.0	17.0	25.0	14.0

11480400 RUTH RESERVOIR NEAR FOREST GLEN, CA

LOCATION.--Lat 40°21'29", long 123°25'20", in SE¼SE¼ 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^2 (308 km^2).

PERIOD OF RECORD.--October 1966 to current year. Records prior to October 1966 in files of Humboldt Bay Municipal Water District.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Humboldt Bay Municipal Water District).

REMARKS.--Reservoir is formed by earthfill dam; storage began July 1961. Total capacity, 51,800 acre-ft (63.9 hm^3) at elevation 2,654.0 ft (808.94 m), crest of spillway. Water is released down Mad River for municipal use. Records given herein represent total contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 66,400 acre-ft (81.9 hm^3) Feb. 14, 1975, elevation, 2,665.98 ft (812.591 m); minimum, 14,700 acre-ft (18.1 hm^3) Nov. 16 to Dec. 2, 1967, elevation, 2,612.34 ft (796.241 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 56,700 acre-ft (69.9 hm^3) Feb. 29, elevation, 2,658.29 ft (810.247 m); minimum, 22,400 acre-ft (27.6 hm^3) Jan. 1, 2; minimum elevation, 2,622.96 ft (799.478 m) Jan. 1.

Capacity table (elevation, in feet, and contents, in acre-feet)

2595	6670	2640	37300
2600	8520	2645	42300
2605	10700	2650	47400
2610	13300	2655	52900
2615	16500	2660	58700
2620	20100	2665	65000
2625	23900	2670	72300
2630	27800	2675	80300
2635	32500		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35600	31800	24600	22400	29400	55300	52500	52300	51300	48800	44700	40500
2	35400	31300	24600	22400	29500	54300	52500	52300	51200	48700	44500	40400
3	35200	30800	24500	22500	29500	53600	52500	52300	51200	48600	44400	40300
4	35000	31200	25300	22500	29600	53200	52500	52300	51100	48500	44200	40100
5	34800	29600	27900	22600	29600	52900	52400	52300	51100	48400	44100	39900
6	34600	29000	29500	22700	29700	52600	52400	52300	51000	48300	43900	39700
7	34400	28600	30300	22700	29700	52500	52800	52300	51000	48200	43800	39600
8	34200	28200	30700	23300	29800	52300	53200	52300	50900	48100	43600	39400
9	34300	27900	31000	24400	29800	52400	53200	52300	50900	47900	43400	39300
10	34200	28000	30900	25100	29900	52700	53300	52200	50800	47800	43300	39100
11	34000	27800	30600	25600	29900	52700	53300	52200	50800	47700	43100	39000
12	33800	27500	30300	26000	30000	52700	53300	52100	50700	47600	43000	38800
13	33600	27200	29900	26300	30100	52700	53200	52000	50600	47500	42800	38600
14	33400	26900	29500	26600	30200	52700	53100	52000	50600	47400	42700	38400
15	33300	28200	29100	27000	30400	52600	53000	52000	50500	47200	42600	38300
16	33100	28800	28700	27200	31700	52600	52900	51900	50400	47100	42400	38200
17	32900	28800	28300	27500	32600	52500	52900	51900	50400	47000	42300	38000
18	32700	28600	27800	27700	33400	52600	52800	51900	50300	46800	42200	37900
19	32500	28300	27300	27900	34500	52600	52700	51800	50100	46600	42100	37700
20	32300	28000	26900	28100	35300	52500	52700	51800	50000	46500	42100	37500
21	32100	27600	26500	28200	36000	52500	52700	51800	49900	46400	42000	37400
22	31900	27200	26200	28400	36600	52500	52600	51700	49800	46200	41900	37200
23	31700	26800	25900	28500	37000	52600	52500	51700	49700	46100	41800	37000
24	31500	26400	25600	28600	37500	52600	52500	51700	49600	45900	41700	36800
25	31800	26000	25200	28700	40600	52700	52400	51600	49500	45800	41500	36600
26	32100	25500	24800	28900	50300	52600	52400	51600	49400	45600	41400	36500
27	32300	25100	24400	28900	54500	52600	52400	51500	49300	45500	41300	36300
28	32400	24800	24000	29000	55600	52600	52400	51500	49200	45300	41100	36100
29	32300	24700	23600	29100	56500	52600	52400	51400	49000	45100	41000	36000
30	32600	24600	23100	29200	---	52600	52400	51400	48900	45000	40900	35800
31	32300	---	22700	29300	---	52500	---	51400	---	44800	40700	---
MAX	35600	31800	31000	29300	56500	55300	53300	52300	51300	48800	44700	40500
MIN	31500	24600	22700	22400	29400	52300	52400	51400	48900	44800	40700	35800
(†)	2634.84	2625.95	2623.37	2631.68	2658.18	2654.62	2654.51	2653.59	2651.39	2647.49	2643.39	2638.42
(‡)	-3500	-7700	-1900	+6600	+27200	-4000	-100	-1000	-2500	-4100	-4100	-4900

CAL YR 1975 ‡ +900
WTR YR 1976 ‡ 0

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

11480500 MAD RIVER NEAR FOREST GLEN, CA

LOCATION.--Lat 40°27'30", long 123°30'35", in SW¼ sec.16, T.1 N., R.6 E., Trinity County, Six Rivers National Forest, on right bank 0.7 mi (1.1 km) downstream from Lamb Creek, and 11.1 mi (17.9 km) northwest of Forest Glen.

DRAINAGE AREA.--143 mi^2 (370 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1953 to current year.

REVISED RECORDS.--WSP 1395: 1954. WSP 1715: 1957(M), 1958(P).

GAGE.--Water-stage recorder. Datum of gage is 2,408.18 ft (734.013 m) above mean sea level. Prior to Dec. 22, 1955, water-stage recorder at site 0.7 mi (1.1 km) upstream at different datum. Jan. 13 to June 18, 1956, nonrecording gage at former site at datum 4.17 ft (1.271 m) lower than former datum.

REMARKS.--Records good. Flow regulated by Ruth Reservoir (station 11480400) 9 mi (14 km) upstream beginning in July 1961. No diversion above station.

AVERAGE DISCHARGE.--23 years, 389 ft^3/s (11.02 m^3/s), 281,800 acre-ft/yr (347 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,200 ft^3/s (1,110 m^3/s) Dec. 22, 1955, gage height, 24.5 ft (7.468 m) present datum, from floodmarks, from rating curve extended above 8,100 ft^3/s (229 m^3/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.60 ft^3/s (0.017 m^3/s) Sept. 15, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,870 ft^3/s (110 m^3/s) Feb. 29, gage height, 7.95 ft (2.423 m); minimum daily, 18 ft^3/s (0.51 m^3/s) Feb. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	319	137	241	20	3090	185	120	53	48	64	54
2	87	315	132	52	21	2030	177	109	53	47	64	54
3	87	312	130	51	21	1360	166	104	53	47	64	54
4	87	308	216	51	21	1010	156	98	52	47	64	54
5	87	308	370	53	21	791	149	95	52	54	64	58
6	87	308	272	52	20	652	149	91	52	55	64	58
7	87	323	196	52	19	567	232	90	52	55	64	58
8	87	312	172	94	18	508	443	90	52	55	64	58
9	95	312	159	139	20	391	508	85	53	47	64	58
10	99	382	235	87	21	213	523	81	52	46	64	58
11	92	330	327	80	20	262	557	76	52	46	64	58
12	89	319	330	76	21	269	547	99	52	47	65	58
13	89	312	327	72	21	258	508	88	52	49	71	58
14	89	315	323	67	21	245	466	77	51	57	71	58
15	89	620	319	40	25	226	430	72	51	64	65	58
16	89	395	315	35	106	210	382	70	51	64	63	58
17	89	350	315	35	69	196	354	64	51	65	60	58
18	91	330	312	33	60	201	323	61	52	64	46	58
19	89	327	308	31	80	210	294	60	56	61	45	58
20	89	327	308	29	67	201	268	58	56	54	45	58
21	89	323	315	28	53	196	248	57	56	53	45	58
22	91	315	346	27	47	193	234	57	55	55	46	62
23	90	315	315	27	46	193	215	57	46	74	45	66
24	91	312	308	24	42	210	200	56	46	64	45	66
25	137	308	301	23	193	238	179	56	46	64	45	72
26	179	304	301	24	697	238	167	56	57	64	48	72
27	121	304	297	24	697	229	159	56	57	64	48	78
28	137	232	293	23	2600	219	141	55	57	64	48	78
29	238	123	290	23	3510	204	126	55	57	64	48	86
30	330	125	290	23	---	193	124	55	57	64	48	86
31	327	---	286	21	---	193	---	56	---	64	48	---
TOTAL	3615	9485	8545	1637	8577	15196	8610	2304	1582	1766	1749	1868
MEAN	117	316	276	52.8	296	490	287	74.3	52.7	57.0	56.4	62.3
MAX	330	620	370	241	3510	3090	557	120	57	74	71	86
MIN	87	123	130	21	18	193	124	55	46	46	45	54
AC-FT	7170	18810	16950	3250	17010	30140	17080	4570	3140	3500	3470	3710

CAL YR 1975 TOTAL 171887 MEAN 471 MAX 8990 MIN 17 AC-FT 340900
WTR YR 1976 TOTAL 64934 MEAN 177 MAX 3510 MIN 18 AC-FT 128800

NOTE.--No gage-height record Aug. 25 to Sept. 30.

11480500 MAD RIVER NEAR FOREST GLEN, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957 to current year.
CHEMICAL ANALYSES: Water years 1971-74.
WATER TEMPERATURES: Water years 1961 to current year.
SEDIMENT RECORDS: Water years 1957-74.
TURBIDITY: Water years 1964-67, 1971-74.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1960 to current year.

INSTRUMENTATION.--Temperature recorder since November 1960.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1961-66, 1968-76), 26.0°C June 25, 1961; minimum, 0.0°C Jan. 5, 6, 1968.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 21.5°C July 10, 13, Aug. 21, 24; minimum, 3.0°C Feb. 6.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	14.0	---	---	8.5	7.5	6.5	5.5	7.0	6.0	7.0	6.0
2	15.0	14.0	---	---	8.5	8.0	6.0	5.0	7.5	6.0	6.5	5.5
3	15.0	13.0	---	---	8.5	8.0	6.0	5.0	7.5	6.0	7.0	5.5
4	16.0	14.5	---	---	8.5	8.0	6.5	5.5	7.0	5.0	7.5	6.0
5	15.5	14.0	---	---	8.5	8.5	6.5	6.0	5.0	3.5	8.0	5.5
6	15.0	12.5	---	---	9.0	8.5	6.5	6.0	5.0	3.0	8.0	6.0
7	13.5	12.5	12.5	11.5	9.0	8.0	7.0	6.0	5.5	4.0	7.5	6.0
8	12.5	12.5	12.0	10.0	8.5	7.5	7.0	7.0	5.0	4.5	8.5	6.0
9	12.5	12.0	11.0	10.5	8.0	7.5	7.0	6.5	6.5	4.5	8.5	6.0
10	13.0	12.0	11.0	10.0	8.5	7.5	6.5	6.0	6.0	4.5	8.5	5.5
11	14.0	13.0	11.0	10.0	8.0	7.5	6.5	6.0	6.0	4.5	8.5	6.0
12	14.0	13.0	11.0	9.5	8.5	7.5	6.5	6.0	8.0	6.0	8.5	5.0
13	14.0	13.0	10.5	9.0	7.5	7.0	6.5	6.0	7.5	7.0	8.5	5.0
14	---	---	10.0	9.5	7.5	6.5	8.0	6.5	7.0	5.5	8.5	6.0
15	---	---	10.0	9.5	7.5	6.5	8.0	7.0	6.0	5.5	9.5	6.5
16	---	---	9.5	9.0	7.5	6.5	8.0	6.5	6.5	6.0	9.5	7.5
17	---	---	9.0	8.5	7.5	6.5	7.5	7.0	7.0	6.5	11.0	8.5
18	---	---	8.5	8.0	7.5	6.5	7.5	6.5	8.0	6.5	10.5	7.5
19	---	---	9.0	8.0	7.5	6.5	7.0	6.0	7.5	6.0	8.5	6.5
20	---	---	9.5	8.5	7.5	6.5	6.5	5.5	7.0	5.5	9.5	6.5
21	---	---	9.0	8.0	7.5	7.0	6.0	5.0	7.0	5.5	10.0	6.5
22	---	---	9.0	8.0	8.0	7.5	6.0	5.0	7.5	6.0	9.0	7.5
23	---	---	8.5	8.0	8.0	7.5	6.5	5.5	7.5	6.0	9.0	7.5
24	---	---	8.5	7.5	8.5	7.5	6.5	5.5	7.0	6.5	8.5	7.0
25	---	---	8.5	7.5	8.0	7.5	5.5	4.5	7.0	6.5	9.5	6.5
26	---	---	8.0	7.0	8.0	7.5	6.0	4.5	8.0	6.5	8.0	6.5
27	---	---	8.0	7.5	8.0	7.5	5.5	4.5	7.5	7.0	8.0	6.0
28	---	---	7.5	6.5	8.0	7.0	5.5	4.0	7.0	6.5	9.0	6.5
29	---	---	7.5	7.0	8.0	7.0	6.0	4.5	7.0	6.5	10.0	6.5
30	---	---	7.5	7.5	7.5	6.5	6.0	4.5	---	---	10.5	6.5
31	---	---	---	---	6.5	6.0	7.0	5.5	---	---	9.5	7.0
MONTH	---	---	12.5	6.5	9.0	6.0	8.0	4.0	8.0	3.0	11.0	5.0

11480500 MAD RIVER NEAR FOREST GLEN, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	5.5	15.0	12.5	16.5	12.5	18.0	13.0	18.5	17.0	20.0	16.5
2	9.5	6.0	16.0	12.5	16.5	12.0	19.0	14.0	19.0	16.0	19.5	16.5
3	10.0	7.5	15.0	11.5	17.0	12.5	19.0	15.0	17.5	15.5	19.5	16.5
4	11.0	7.5	14.0	12.0	17.5	12.5	20.5	15.5	17.5	15.0	19.5	16.5
5	10.0	9.0	15.5	12.0	17.5	13.0	20.5	16.0	16.5	15.0	19.5	17.0
6	9.5	7.5	15.0	11.5	18.0	13.5	19.5	16.0	15.5	15.0	19.0	17.0
7	9.0	7.0	16.5	12.5	15.0	13.5	20.0	16.5	18.5	15.0	18.5	15.5
8	9.5	7.0	17.5	13.5	16.5	12.5	19.5	16.0	19.0	16.5	18.5	15.5
9	9.5	7.5	18.0	14.5	15.0	13.5	21.0	16.5	19.5	16.0	19.0	16.0
10	9.0	8.0	18.0	14.5	17.0	12.5	21.5	16.5	20.0	16.5	17.5	16.0
11	9.0	7.5	19.5	14.5	16.0	14.0	19.0	17.0	19.5	16.5	19.0	16.0
12	9.5	8.0	17.5	14.0	18.0	14.0	20.5	15.5	19.5	16.0	18.0	16.0
13	10.5	7.5	18.0	14.5	19.0	14.0	21.5	16.0	17.5	15.5	18.0	15.5
14	11.0	7.0	18.0	14.5	19.0	14.0	21.0	16.5	16.5	14.5	18.5	16.0
15	9.0	7.5	17.5	13.5	20.0	14.5	20.0	16.5	15.5	14.5	17.5	15.5
16	10.0	6.5	17.5	14.0	20.0	15.0	18.5	16.5	15.0	14.5	16.5	15.5
17	9.0	6.5	17.0	13.0	20.5	15.0	18.5	16.0	15.0	14.5	18.0	15.0
18	11.0	7.5	16.5	12.0	21.0	16.0	20.0	16.5	16.0	14.0	18.0	16.0
19	12.0	8.0	16.5	12.0	20.5	16.5	20.0	17.0	19.0	14.5	18.0	16.0
20	12.0	8.5	17.0	12.0	19.0	16.0	20.0	16.5	21.0	16.0	18.5	16.0
21	10.5	8.5	17.5	12.5	18.5	15.0	20.0	16.5	21.5	17.5	18.0	16.0
22	12.0	9.0	17.5	13.0	18.5	14.5	20.0	16.5	20.5	18.0	18.0	16.0
23	12.0	9.0	17.5	12.5	19.5	14.5	19.0	16.0	20.5	16.5	17.5	15.5
24	13.0	10.0	17.5	13.0	20.5	15.5	20.0	16.5	21.5	17.5	17.5	15.5
25	12.0	8.0	18.0	12.0	20.5	16.0	20.0	17.0	20.0	17.5	17.5	15.5
26	12.0	7.5	19.0	12.0	19.0	15.0	20.5	17.5	19.0	16.0	17.0	15.0
27	12.0	8.0	17.5	13.0	19.0	14.5	20.0	17.0	19.5	16.0	16.5	15.5
28	12.0	9.0	17.0	12.0	19.0	15.0	19.0	17.0	20.5	16.5	17.5	15.5
29	14.0	10.0	14.0	12.0	19.0	15.5	20.0	17.5	20.5	17.0	18.0	15.5
30	15.5	11.5	13.5	12.0	17.0	14.5	20.0	16.5	20.5	17.0	18.5	16.5
31	---	---	16.0	12.0	---	---	19.0	16.5	20.0	17.0	---	---
MONTH	15.5	5.5	19.5	11.5	21.0	12.0	21.5	13.0	21.5	14.0	20.0	15.0

11480780 MAD RIVER NEAR BLUE LAKE, CA

LOCATION.--Lat 40°50'47", long 123°58'54", in NW¼ sec.5, T.5 N., R.2 E., Humboldt County, on right bank 0.3 mi (0.5 km) upstream from small left-bank tributary, and 2.4 mi (3.9 km) south of town of Blue Lake.

DRAINAGE AREA.--393 mi^2 (1,018 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1972 to September 1976 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 130 ft (40 m), from topographic map.

REMARKS.--Records good. Flow regulated by Ruth Reservoir (station 11480400) 61 mi (98 km) upstream. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,100 ft^3/s (966 m^3/s) Jan. 16, 1974, gage height, 20.23 ft (6.166 m), from rating curve extended above 8,600 ft^3/s (244 m^3/s); minimum daily, 82 ft^3/s (2.32 m^3/s) Aug. 25, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,800 ft^3/s (447 m^3/s) Feb. 28, gage height, 16.03 ft (4.886 m); minimum daily, 82 ft^3/s (2.32 m^3/s) Aug. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	990	2560	685	227	8700	1210	447	183	109	101	89
2	92	692	1770	567	217	6080	1040	431	167	105	101	94
3	93	531	1130	362	208	4480	902	402	158	95	101	94
4	94	448	2750	372	204	3430	793	380	153	94	104	93
5	92	416	7410	618	195	2720	706	365	151	93	106	96
6	98	421	5850	778	189	2290	658	349	149	95	107	96
7	107	1690	2980	800	180	1980	999	333	146	101	108	96
8	100	1450	1930	2740	177	1720	2700	321	148	102	107	95
9	104	927	1400	5300	171	1530	2420	311	145	102	106	95
10	215	1500	1120	2860	168	1210	2580	299	150	97	103	94
11	276	2100	1080	1980	162	972	2420	286	147	90	100	94
12	198	1500	1270	1810	162	886	2240	273	142	94	98	93
13	146	1150	1130	1470	189	815	2030	285	139	92	99	94
14	131	1900	999	1240	300	770	1720	270	132	90	128	93
15	121	3900	910	1060	520	727	1580	255	128	95	152	94
16	119	2800	862	927	4430	664	1400	241	124	105	140	93
17	119	2000	823	785	3870	624	1210	234	123	110	130	96
18	141	1460	749	678	3410	658	1340	224	120	113	138	96
19	131	1110	692	605	2690	831	1150	214	117	110	122	95
20	121	1020	631	514	2090	756	1040	208	121	107	102	94
21	121	870	631	448	1590	734	948	204	123	99	92	95
22	133	749	1170	411	1280	808	863	198	122	93	89	94
23	138	699	1050	382	1080	919	799	195	120	88	92	93
24	128	624	919	348	945	1300	737	192	110	111	87	98
25	1740	573	854	326	2420	2110	687	186	101	107	82	103
26	4770	573	846	300	10200	1730	619	183	98	105	87	105
27	1860	763	981	281	8550	1400	572	177	104	104	90	105
28	1510	727	839	270	12500	1280	532	177	109	101	89	108
29	954	508	778	259	10300	1070	483	171	108	101	89	109
30	2070	458	800	244	---	936	453	174	107	101	87	105
31	1540	---	749	234	---	1230	---	183	---	101	85	---
TOTAL	17553	34549	47663	29654	68624	55360	36831	8168	3945	3110	3222	2899
MEAN	566	1152	1538	957	2366	1786	1228	263	132	100	104	96.6
MAX	4770	3900	7410	5300	12500	8700	2700	447	183	113	152	109
MIN	91	416	631	234	162	624	453	171	98	88	82	89
AC-FT	34820	68530	94540	58820	136100	109800	73050	16200	7820	6170	6390	5750

CAL YR 1975 TOTAL 591076 MEAN 1619 MAX 26000 MIN 90 AC-FT 1172000
WTR YR 1976 TOTAL 311578 MEAN 851 MAX 12500 MIN 82 AC-FT 618000

11480780 MAD RIVER NEAR BLUE LAKE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972 to September 1976 (discontinued).
CHEMICAL ANALYSES: Water years 1972-74.
WATER TEMPERATURES: Water years 1973 to September 1976 (discontinued).
SEDIMENT RECORDS: Water years 1973-74.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1972 to September 1976 (discontinued).

INSTRUMENTATION.--Temperature recorder since October 1972.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 27.5°C July 25, 1974; minimum, 1.5°C Dec. 14, 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 27.0°C July 28; minimum, 3.0°C Jan. 25, Feb. 10.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	9.5	8.0	7.0	6.0	4.5	9.0	6.5	7.0	6.0
2	19.5	16.0	12.5	9.5	8.0	6.5	6.0	3.5	9.0	7.5	6.5	5.0
3	20.0	14.5	13.5	10.5	9.0	7.5	6.5	5.5	8.0	6.5	7.5	5.0
4	22.0	16.0	14.5	11.0	9.5	8.5	7.5	6.5	8.5	6.0	7.5	5.5
5	20.0	15.0	13.5	11.5	9.5	8.5	8.0	7.0	7.0	4.0	8.5	5.5
6	18.0	16.0	13.0	12.0	10.5	9.0	8.0	6.5	7.0	3.5	8.5	5.5
7	19.0	15.0	12.5	10.5	10.0	9.5	8.0	7.0	7.5	4.0	8.5	7.0
8	16.5	15.0	11.0	10.5	10.5	9.0	8.5	8.0	7.5	4.0	10.0	7.0
9	16.0	14.5	11.5	10.5	10.5	9.0	8.5	7.0	7.5	4.0	10.0	7.0
10	16.5	13.5	11.0	9.0	9.5	8.5	8.0	6.5	7.5	3.0	9.0	7.5
11	16.0	13.0	9.5	9.0	9.0	8.5	9.0	7.5	7.0	3.5	11.0	7.0
12	18.0	13.0	9.5	9.0	9.0	7.5	8.5	7.5	9.5	6.0	10.0	6.5
13	18.5	13.5	9.5	8.0	8.5	7.0	9.0	7.5	9.0	7.5	9.5	7.5
14	17.0	13.5	9.5	7.5	8.0	5.5	9.0	8.5	7.5	6.5	10.0	8.0
15	19.0	12.5	9.5	7.5	7.0	5.0	9.0	8.5	7.5	6.5	11.0	8.5
16	19.0	13.0	10.0	8.0	7.5	5.5	9.0	8.0	8.0	7.0	12.0	9.0
17	16.5	13.5	11.5	9.0	7.5	5.5	8.5	7.5	8.0	7.0	12.5	10.5
18	18.5	13.0	11.0	10.0	7.0	6.0	9.0	7.5	8.0	6.5	11.5	9.0
19	18.5	13.0	10.0	8.5	7.0	6.0	8.0	5.5	7.5	5.5	10.0	7.5
20	18.5	14.0	9.0	8.0	7.0	5.5	7.5	5.5	7.5	5.0	11.5	6.5
21	15.0	13.0	8.5	7.5	7.5	5.5	7.0	4.0	7.5	5.0	12.5	8.0
22	15.5	12.0	7.5	6.5	7.5	7.0	6.5	4.5	9.0	6.5	11.0	9.5
23	15.0	11.0	9.5	8.0	8.5	7.0	7.5	5.5	7.5	6.5	9.5	8.5
24	15.5	11.5	8.5	7.5	8.5	7.5	7.0	4.5	8.0	6.5	9.0	7.0
25	12.0	10.5	9.0	7.5	9.0	7.5	6.0	3.0	8.0	7.0	9.5	6.5
26	13.5	10.0	10.0	8.5	9.5	8.5	6.5	4.0	8.5	8.0	8.5	7.0
27	10.5	9.5	9.5	7.5	9.5	9.0	7.0	5.0	9.0	8.0	8.0	6.5
28	12.0	9.0	9.0	7.5	9.5	8.0	6.5	4.0	8.0	7.5	10.0	7.0
29	12.0	9.0	9.0	8.0	9.5	8.5	7.5	5.0	8.0	7.0	11.0	7.0
30	11.5	10.5	9.0	8.0	9.0	8.0	8.0	5.0	---	---	12.0	8.0
31	11.0	9.5	---	---	8.0	6.0	7.0	5.0	---	---	10.5	7.0
MONTH	22.0	9.0	14.5	6.5	10.5	5.0	9.0	3.0	9.5	3.0	12.5	5.0

11480780 MAD RIVER NEAR BLUE LAKE, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	6.0	15.5	13.0	18.5	13.5	23.0	16.0	22.0	18.5	22.0	18.5
2	10.0	6.0	16.5	12.5	19.5	12.5	24.0	16.0	20.5	18.5	24.0	18.0
3	10.5	8.0	18.0	12.5	19.5	13.5	23.0	16.0	19.5	18.5	25.0	18.0
4	13.0	8.5	16.5	13.0	20.5	13.0	25.5	18.0	20.5	18.0	22.0	18.0
5	11.0	9.5	16.0	13.0	21.0	14.0	25.5	19.0	21.5	18.0	23.0	18.0
6	12.0	8.5	18.0	12.0	16.0	14.5	25.5	17.5	20.5	18.0	22.5	18.5
7	10.0	8.5	19.5	12.5	15.5	13.5	25.0	19.5	21.0	17.5	23.5	16.5
8	10.0	8.0	19.5	14.0	20.0	13.0	24.0	20.0	21.5	17.0	24.0	16.0
9	9.5	7.5	19.5	14.5	16.0	14.5	24.5	19.5	25.0	16.0	24.5	17.0
10	9.5	8.0	19.0	14.5	15.0	14.0	25.5	18.0	25.0	17.5	23.0	17.5
11	9.0	7.0	20.5	14.5	16.0	13.5	22.5	18.5	24.0	18.0	22.5	18.5
12	9.0	7.5	21.5	14.0	15.5	14.0	23.5	19.0	24.0	19.0	22.5	18.0
13	11.0	8.0	21.0	15.5	21.5	13.5	25.0	18.5	21.5	18.0	23.0	18.0
14	12.0	8.5	21.0	15.5	22.5	14.0	26.5	19.0	20.0	17.5	---	---
15	10.0	8.5	21.5	14.5	22.5	15.0	26.0	19.0	20.0	17.0	---	---
16	11.0	7.5	16.5	14.0	23.5	16.5	23.5	19.5	20.0	17.0	---	---
17	10.0	7.5	19.5	12.5	24.0	16.5	22.5	19.5	18.0	17.0	---	---
18	12.0	8.0	19.0	13.5	22.0	16.5	22.0	19.0	20.0	17.0	---	---
19	13.0	8.0	19.5	13.0	21.5	17.0	25.0	19.0	24.0	16.5	---	---
20	14.5	10.5	20.0	13.0	19.0	16.5	21.5	18.0	25.0	17.0	---	---
21	13.0	10.5	20.5	13.5	19.0	16.0	25.0	17.5	21.0	18.5	---	---
22	12.5	10.5	20.5	15.0	23.0	15.0	25.5	18.0	20.0	19.0	---	---
23	12.0	10.0	20.0	14.5	24.0	15.5	22.0	19.5	21.0	18.0	---	---
24	14.5	10.5	20.5	15.0	25.0	16.0	26.5	19.5	24.0	18.5	---	---
25	14.0	9.5	21.0	15.5	24.0	16.5	26.5	20.0	24.0	18.5	---	---
26	14.0	9.0	22.0	14.5	24.0	15.5	26.5	19.5	24.0	16.5	---	---
27	14.5	9.5	17.5	15.0	25.0	16.0	26.5	18.5	24.0	17.0	---	---
28	14.5	10.5	20.5	13.5	24.5	16.5	27.0	18.5	25.0	17.5	---	---
29	15.0	11.0	17.0	13.0	24.5	17.5	24.5	19.5	25.0	18.5	---	---
30	17.0	11.5	16.0	14.5	22.0	17.5	24.5	18.5	25.0	18.5	---	---
31	---	---	16.5	14.0	---	---	24.5	17.5	25.0	18.5	---	---
MONTH	17.0	6.0	22.0	12.0	25.0	12.5	27.0	16.0	25.0	16.0	---	---

11481000 MAD RIVER NEAR ARCATA, CA

LOCATION.--Lat 40°54'35", long 124°03'35", in NW¼ sec.15, T.6 N., R.1 E., Humboldt County, on right bank 100 ft (30 m) upstream from bridge on U.S. Highway 299, 1.0 mi (1.6 km) downstream from Warren Creek, and 2.8 mi (4.5 km) northeast of Arcata.

DRAINAGE AREA.--485 mi^2 (1,256 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1910 to September 1913, August 1950 to current year. Monthly discharge only for some periods published in WSP 1315-B.

REVISED RECORDS.--WDR CA-72-1: 1965(M).

GAGE.--Water-stage recorder. Datum of gage is 12.79 ft (3.898 m) above mean sea level. December 1910 to September 1913, nonrecording gage at site 0.1 mi (0.2 km) upstream at different datum. Aug. 15, 1950, to July 23, 1956, water-stage recorder at site 0.6 mi (1.0 km) upstream at datum 11.00 ft (3.353 m) higher. July 24, 1956, to Apr. 9, 1965, water-stage recorder at datum 5.00 ft (1.524 m) higher. Aug. 29 to Oct. 26, 1961, auxiliary water-stage recorder at site 0.5 mi (0.8 km) downstream at different datum.

REMARKS.--Records fair. Flow regulated by Ruth Reservoir (station 11480400) 68 mi (109 km) upstream beginning in July 1961. Water is diverted 0.5 mi (0.8 km) upstream from station for municipal supply and industrial use in Humboldt Bay area.

AVERAGE DISCHARGE (adjusted for diversions).--29 years, 1,548 ft^3/s (43.84 m^3/s), 1,122,000 acre-ft/yr (1.38 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81,000 ft^3/s (2,290 m^3/s) Dec. 22, 1964, gage height, 30.7 ft (9.36 m) present datum, from high-water mark profile; minimum, 0.75 ft^3/s (0.021 m^3/s) July 31, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,500 ft^3/s (467 m^3/s) Feb. 28, gage height, 13.70 ft (4.176 m); minimum daily, 7.5 ft^3/s (0.21 m^3/s) July 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	1290	4190	862	245	7620	1800	550	139	35	14	40
2	19	1000	2720	743	225	5640	1510	512	115	44	14	31
3	19	798	1880	487	212	4150	1340	467	100	67	15	33
4	19	680	4240	479	194	3160	1180	433	93	69	16	35
5	18	617	8460	843	189	2550	1100	401	87	47	17	33
6	19	640	7010	1030	180	2150	1040	380	84	43	19	31
7	30	1850	3430	1050	168	1880	1350	347	86	44	21	28
8	24	1730	2250	3670	159	1750	3000	317	86	40	20	31
9	24	1220	1670	5640	150	1510	2450	307	79	40	20	29
10	120	1340	1340	3050	136	1200	3150	284	77	29	15	25
11	202	1710	1240	2260	138	1120	3020	260	81	21	13	25
12	136	1380	1470	2170	134	1030	2550	235	74	21	12	26
13	59	1170	1340	1820	187	938	2340	227	68	19	12	29
14	48	1080	1220	1580	400	893	2030	227	59	9.7	39	40
15	44	5480	1110	1350	817	859	1950	201	50	9.1	84	47
16	42	4380	1040	1170	5370	763	1750	182	46	12	69	45
17	41	2600	995	1060	4030	717	1580	171	39	20	64	45
18	56	1860	922	951	3870	770	1790	160	37	23	86	33
19	47	1520	864	828	3220	1120	1520	160	35	23	91	26
20	44	1380	812	729	2250	1020	1390	148	36	18	70	25
21	42	1210	795	640	1720	956	1280	131	37	14	61	22
22	48	1090	1210	573	1320	1110	1200	126	38	8.0	58	20
23	55	1040	1140	527	1160	1320	1110	121	37	7.5	57	20
24	49	952	1050	473	1020	1820	1030	124	33	12	52	20
25	2440	883	975	422	3290	2670	938	124	22	20	48	27
26	6540	897	959	375	9570	2010	834	118	17	15	44	28
27	2160	1100	1120	339	7740	1690	747	112	14	13	48	27
28	1880	1120	979	316	12500	1650	681	112	20	14	49	28
29	1200	910	916	296	9610	1490	620	107	20	13	49	28
30	2270	836	949	277	---	1310	568	118	21	13	47	25
31	1910	---	926	259	---	1840	---	138	---	13	44	---
TOTAL	19623	43763	59222	36269	70204	58706	46848	7300	1730	776.3	1268	902
MEAN	633	1459	1910	1170	2421	1894	1562	235	57.7	25.0	40.9	30.1
MAX	6540	5480	8460	5640	12500	7620	3150	550	139	69	91	47
MIN	18	617	795	259	134	717	568	107	14	7.5	12	20
AC-FT	38920	86800	117500	71940	139200	116400	92920	14480	3430	1540	2520	1790
(†)	5390	4670	5130	5050	4630	5570	5180	5380	5990	4880	5360	4950

CAL YR 1975 TOTAL 672789.9 MEAN 1843 MAX 31700 MIN 6.7 AC-FT 1334000 † 61320
WTR YR 1976 TOTAL 346611.3 MEAN 947 MAX 12500 MIN 7.5 AC-FT 687500 † 62180

† Diversion, in acre-feet, for municipal supply and industrial use, furnished by Humboldt Municipal Water District.

11481000 MAD RIVER NEAR ARCATA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955 to current year.
CHEMICAL ANALYSES: Water years 1959 to current year.
WATER TEMPERATURES: Water years 1958 to current year.
SEDIMENT RECORDS: Water years 1955-74.
TURBIDITY: Water years 1971-74.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: December 1957 to current year.
SEDIMENT RECORDS: December 1957 to September 1974.

INSTRUMENTATION.--Temperature recorder since November 1960.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1964, 1966-71, 1976), 27.0°C July 6, 27, 28, 1968; minimum, 0.5°C Dec. 17-20, 1965.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 25.5°C June 25, July 26-28; minimum, 3.5°C Jan. 2.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
NOV 03...	1420	785	155	7.6	15.0	15	9.6
JAN 05...	1535	995	126	7.5	8.5	30	11.9
MAR 01...	1345	7780	95	7.8	8.0	200	11.4
MAY 03...	1200	476	144	8.2	17.0	4	10.5
JUL 12...	1345	22	217	8.1	21.5	1	10.1
SEP 13...	1300	31	219	8.0	20.0	1	11.0

DATE	TIME	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
MAY 03...	1200	69	11	4.2	.2	71	0	58	4.0	.03	.10

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (P04) (MG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL ZINC (ZN) (UG/L)
MAY 03...	.03	.01	.03	0	0	0	270	0	10	0

11481000 MAD RIVER NEAR ARCATA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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	--	--	--	14.5	--	10.0	9.5	--	8.5	7.5	--	4.0	9.0	--	7.0	8.5	--	6.5
2	--	--	--	14.5	--	10.5	9.5	--	9.0	6.5	--	3.5	8.5	--	7.5	7.5	--	6.0
3	--	--	--	16.0	--	11.5	11.5	--	9.0	7.0	--	5.5	8.5	--	7.0	8.5	--	5.5
4	--	--	--	13.5	--	11.5	10.5	--	9.5	8.5	--	7.0	9.0	--	5.0	9.5	--	6.0
5	--	--	--	13.0	--	11.5	11.0	--	10.0	9.0	--	7.0	8.0	--	4.5	10.0	--	5.5
6	--	--	--	11.5	--	10.5	12.5	--	10.5	8.0	--	7.0	8.0	--	4.0	10.5	--	6.0
7	--	--	--	12.5	--	11.0	12.0	--	9.5	8.0	--	7.0	8.5	--	4.5	8.5	--	7.5
8	--	--	--	12.5	--	9.0	12.0	--	9.0	9.0	--	8.5	7.5	--	5.0	12.0	--	7.0
9	--	14.0	--	9.0	--	8.5	9.5	--	9.0	9.5	--	6.5	9.0	--	4.5	11.5	--	7.5
10	15.0	--	13.0	10.5	--	8.5	10.0	--	9.5	7.5	--	6.5	9.0	--	4.0	9.5	--	8.5
11	16.0	--	13.0	9.5	--	7.5	9.5	--	9.0	8.5	--	7.0	8.5	--	4.5	12.0	--	7.0
12	18.0	--	12.5	9.5	--	7.0	10.0	--	8.0	9.0	--	7.5	11.0	--	7.0	12.0	--	6.5
13	18.0	--	13.5	9.0	--	7.5	9.0	--	7.5	8.5	--	6.0	9.5	--	8.0	10.5	--	8.0
14	18.0	--	13.0	10.5	--	8.5	9.5	--	8.5	8.0	--	5.5	8.0	--	7.0	10.5	--	8.0
15	18.5	--	12.0	10.5	--	9.5	11.0	--	8.5	7.5	--	5.0	7.5	--	6.5	12.0	--	9.0
16	19.0	--	13.5	10.0	--	7.5	10.5	--	9.0	8.5	--	6.0	8.0	--	7.5	12.5	--	9.0
17	16.0	--	14.5	9.5	--	6.5	9.0	--	8.5	8.0	--	6.0	8.0	--	7.5	12.5	--	10.0
18	19.0	--	14.0	8.5	--	5.5	11.5	--	7.5	7.5	--	5.5	8.0	--	6.5	12.5	--	8.5
19	19.5	--	13.5	6.5	--	5.0	10.5	--	7.0	6.5	--	6.0	9.0	--	6.0	11.5	--	7.5
20	18.5	--	15.0	10.0	--	6.5	7.5	--	6.0	9.0	--	6.5	9.0	--	5.0	12.5	--	7.0
21	16.0	--	14.0	9.5	--	6.0	7.5	--	6.0	9.0	--	6.5	8.5	--	5.5	13.0	--	8.0
22	17.0	--	13.0	8.5	--	7.0	9.5	--	7.0	8.5	--	7.0	9.0	--	6.5	11.0	--	8.5
23	16.0	--	11.0	11.0	--	7.5	9.0	--	7.5	8.5	--	7.5	8.0	--	7.0	10.0	--	7.5
24	16.0	--	11.0	10.5	--	7.0	9.5	--	7.5	9.5	--	7.0	8.5	--	7.0	10.6	--	7.5
25	14.0	--	11.5	10.0	--	7.0	9.5	--	8.0	8.0	--	6.0	8.5	--	8.0	9.5	--	6.5
26	13.5	--	11.5	9.5	--	8.5	10.0	--	9.0	8.0	--	5.5	8.5	--	8.0	10.0	--	6.5
27	11.5	--	10.5	9.0	--	8.0	10.5	--	9.0	8.0	--	6.5	8.5	--	8.0	8.5	--	6.0
28	13.5	--	10.0	8.5	--	7.0	11.0	--	8.5	8.5	--	5.5	8.5	--	7.5	11.5	--	7.0
29	12.0	--	10.0	8.0	--	6.5	10.0	--	8.0	8.0	--	7.0	8.5	--	7.0	12.5	--	6.5
30	13.5	--	11.0	8.5	--	7.5	9.5	--	6.5	9.5	--	6.5	--	--	--	13.5	--	7.5
31	13.5	--	10.0	--	--	--	8.5	--	5.0	8.5	--	6.5	--	--	--	9.5	--	6.0
MONTH	--	--	--	16.0	--	5.0	12.5	--	5.0	9.5	--	3.5	11.0	--	4.0	13.5	--	5.5

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	11.0	--	5.5	16.0	--	12.0	18.5	--	13.5	22.5	--	13.5	20.0	--	17.5	19.0	--	17.0
2	11.5	--	6.0	17.5	--	13.0	18.5	--	12.5	23.5	--	14.0	19.5	--	17.5	23.0	--	16.5
3	11.5	--	7.5	18.5	--	13.5	18.5	--	13.5	22.0	--	15.0	19.0	--	17.5	22.5	--	16.5
4	13.0	--	8.5	16.0	--	13.0	18.5	--	13.5	24.5	--	17.0	22.0	--	17.0	24.0	--	22.0
5	11.5	--	9.0	17.0	--	11.5	19.0	--	15.0	25.0	--	17.5	20.5	--	17.5	22.5	--	17.5
6	13.0	--	8.5	18.0	--	12.5	16.5	--	14.5	24.5	--	15.5	20.0	--	17.0	21.5	--	17.0
7	10.0	--	8.0	19.5	--	14.0	15.5	--	14.0	25.0	--	18.5	20.5	--	18.0	22.5	--	14.5
8	11.0	--	7.5	17.5	--	14.5	18.5	--	14.0	23.0	--	14.0	22.5	--	17.0	23.0	--	15.5
9	9.0	--	7.5	17.0	--	14.5	17.0	--	15.0	23.0	--	18.0	24.0	--	17.0	24.0	--	16.5
10	9.5	--	8.0	19.0	--	14.0	17.0	--	14.5	25.0	--	16.0	22.5	--	17.5	22.0	--	16.0
11	9.0	--	7.0	20.0	--	14.0	16.5	--	14.5	23.0	--	16.5	23.0	--	17.5	22.0	--	17.0
12	9.0	--	7.5	21.5	--	14.0	17.0	--	15.0	--	--	--	23.0	--	18.0	22.5	--	16.0
13	11.5	--	7.5	20.0	--	15.0	19.0	--	13.5	--	--	--	18.5	--	17.0	22.0	--	14.5
14	12.0	--	8.0	21.0	--	15.0	19.0	--	14.5	--	--	--	19.0	--	17.0	21.0	--	16.5
15	10.5	--	8.0	21.0	--	14.0	19.5	--	15.0	--	--	--	18.5	--	17.0	21.0	--	14.5
16	11.5	--	7.0	17.0	--	14.0	20.5	--	17.5	--	18.5	--	20.5	--	17.0	18.5	--	15.5
17	9.5	--	7.5	18.5	--	12.0	21.0	--	18.0	--	--	--	18.0	--	16.5	21.0	--	16.5
18	12.5	--	7.5	19.0	--	13.5	19.0	--	17.5	--	18.5	--	20.5	--	17.0	17.5	--	16.0
19	13.5	--	8.0	19.0	--	12.5	20.0	--	18.0	--	--	--	21.0	--	17.0	19.5	--	16.0
20	15.0	--	10.0	19.5	--	13.0	19.0	--	17.5	--	19.0	--	20.5	--	17.5	20.5	--	17.0
21	12.5	--	10.0	19.5	--	13.5	19.0	--	17.0	23.5	--	15.0	19.0	--	18.5	21.0	--	16.5
22	13.0	--	10.5	19.5	--	15.0	21.0	--	16.5	24.0	--	15.0	19.5	--	18.0	20.0	--	16.0
23	12.0	--	10.0	19.5	--	14.0	21.0	--	17.5	24.0	--	17.5	--	--	--	17.0	--	15.5
24	15.0	--	10.5	18.5	--	14.5	21.5	--	18.0	23.5	--	17.5	--	--	--	18.5	--	15.0
25	15.0	--	10.0	20.0	--	15.0	25.5	--	19.0	24.5	--	18.5	--	--	--	18.5	--	15.5
26	15.0	--	9.0	20.0	--	14.0	22.5	--	17.0	25.5	--	18.0	--	20.5	--	20.0	--	13.0
27	16.0	--	9.5	17.0	--	13.5	22.0	--	17.0	25.5	--	18.0	--	--	--	17.5	--	15.0
28	13.5	--	11.0	18.5	--	12.5	23.5	--	18.0	25.5	--	17.0	--	--	--	20.5	--	15.5
29	15.5	--	11.5	16.0	--	12.5	23.0	--	15.5	22.5	--	17.5	--	--	--	20.5	--	15.5
30	18.0	--	11.5	16.0	--	14.5	22.5	--	15.5	23.0	--	17.5	--	20.0	--	20.0	--	15.5
31	--	--	--	17.5	--	14.0	--	--	--	22.5	--	16.5	22.5	--	16.5	--	--	--
MONTH	18.0	--	5.5	21.5	--	11.5	25.5	--	12.5	--	--	--	--	--	--	24.0	--	13.0

11481200 LITTLE RIVER NEAR TRINIDAD, CA

LOCATION.--Lat 41°00'40", long 124°04'50", in NE¼ sec.8, T.7 N., R.1 E., Humboldt County, on right bank 0.5 mi (0.8 km) upstream from Coon Creek, 4.7 mi (7.6 km) southeast of Trinidad, and 9.1 mi (14.6 km) north of Arcata.

DRAINAGE AREA.--44.4 mi^2 (115.0 km^2).

PERIOD OF RECORD.--October 1955 to current year. Prior to October 1971, published as "at Crannell."

REVISED RECORDS.--WSP 2129: 1956-60.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 17.62 ft (5.371 m) above mean sea level.

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

AVERAGE DISCHARGE.--21 years, 148 ft^3/s (4.191 m^3/s), 107,200 acre-ft/yr (132 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,830 ft^3/s (278 m^3/s) Mar. 18, 1975, gage height, 14.19 ft (4.325 m), from rating curve extended above 3,100 ft^3/s (87.8 m^3/s) on basis of slope-area measurement at gage height 14.08 ft (4.292 m); minimum daily, 2.8 ft^3/s (0.079 m^3/s) Oct. 20-22, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 17, 18, 1953, reached a stage of 15.7 ft (4.79 m), observed by an employee of Hammond Lumber Co.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft^3/s (85 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 25	1900	3360	95.2	7.34	2.237
Nov. 15	1100	*3700	105	7.67	2.338
Dec. 4	1515	3550	101	7.53	2.295

Minimum daily discharge, 4.7 ft^3/s (0.13 m^3/s) Oct. 1-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	96	895	76	41	571	201	49	27	11	7.0	7.0
2	4.7	61	360	68	40	390	155	48	22	11	7.5	7.0
3	4.7	44	238	63	39	290	125	46	21	11	7.5	6.7
4	4.7	35	1480	75	38	240	109	45	19	10	7.9	6.1
5	4.7	33	1330	123	36	205	94	43	17	11	7.9	6.1
6	5.8	36	828	125	36	185	89	40	17	10	8.4	6.1
7	11	117	420	169	34	164	115	38	17	10	9.0	6.1
8	9.5	99	280	931	33	148	132	36	18	10	9.0	5.8
9	13	66	216	647	32	127	109	35	17	10	9.0	5.8
10	26	111	176	319	30	115	322	35	17	9.8	9.0	5.4
11	16	117	153	274	29	98	302	34	17	9.8	8.5	5.4
12	12	81	176	271	29	86	203	30	17	10	8.5	5.4
13	9.5	61	155	241	78	81	159	30	17	10	8.5	5.4
14	7.9	60	136	206	119	79	130	30	15	9.7	8.5	5.4
15	7.0	1780	119	176	169	75	125	27	14	9.2	9.0	5.8
16	6.7	548	107	150	1220	69	109	27	14	8.4	15	5.8
17	9.8	332	91	130	618	65	113	27	13	9.3	13	5.8
18	37	250	82	117	502	86	148	26	13	9.8	14	5.4
19	14	198	75	98	451	96	115	25	13	9.8	13	5.4
20	11	193	69	86	302	81	94	25	13	9.4	11	5.4
21	12	159	82	78	222	71	84	23	13	8.8	10	5.4
22	21	139	130	69	164	96	84	22	13	8.4	11	5.4
23	17	123	101	68	143	115	78	22	13	8.4	10	5.4
24	12	111	86	61	130	267	78	22	12	7.9	9.5	5.4
25	991	96	78	57	662	274	69	22	12	7.9	9.0	5.4
26	706	123	109	54	1110	188	64	21	12	7.8	7.9	5.4
27	288	155	125	50	1050	153	60	21	12	7.4	7.5	5.4
28	260	155	101	49	1350	171	56	21	11	7.0	7.5	6.4
29	134	130	87	47	777	143	53	20	11	7.0	7.5	6.1
30	309	171	91	46	---	121	50	26	11	7.0	7.0	5.4
31	169	---	84	43	---	222	---	30	---	7.0	7.0	---
TOTAL	3138.7	5680	8460	4967	9484	5072	3625	946	458	283.8	285.1	173.0
MEAN	101	189	273	160	327	164	121	30.5	15.3	9.15	9.20	5.77
MAX	991	1780	1480	931	1350	571	322	49	27	11	15	7.0
MIN	4.7	33	69	43	29	65	50	20	11	7.0	7.0	5.4
AC-FT	6230	11270	16780	9850	18810	10060	7190	1880	908	563	565	343

CAL YR 1975	TOTAL	74800.8	MEAN 205	MAX 7860	MIN 4.7	AC-FT	148400	
WTR YR 1976	TOTAL	42572.6	MEAN 116	MAX 1780	MIN 4.7	AC-FT	84440	

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA

LOCATION.--Lat 40°54'22", long 123°48'51", in SE¼NE¼ sec.15, T.6 N., R.3 E., Humboldt County, on right bank 400 ft (122 m) upstream from Lupton Creek, and 9.1 mi (14.6 km) east of town of Blue Lake.

DRAINAGE AREA.--67.6 mi² (175.1 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1953 to September 1958, October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 850 ft (259 m), from topographic map.

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

AVERAGE DISCHARGE.--9 years, 292 ft³/s (8.269 m³/s), 211,600 acre-ft/yr (261 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,200 ft³/s (346 m³/s) Mar. 18, 1975, gage height, 13.70 ft (4.176 m), from rating curve extended above 6,400 ft³/s (181 m³/s); minimum daily, 2.7 ft³/s (0.076 m³/s) Oct. 16, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,900 ft³/s (54 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Oct. 25	2100	2670	75.6	7.48	2.280	Feb. 16	1030	2280	64.6	7.21	2.198
Dec. 4	1815	2510	71.1	7.37	2.246	Feb. 27	2230	*4100	116	8.73	2.661

Minimum daily discharge, 4.8 ft³/s (0.14 m³/s) Oct. 2-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	186	506	139	110	1010	298	156	56	19	9.1	7.7
2	4.8	145	286	130	107	782	291	150	50	18	9.5	7.7
3	4.8	122	223	128	104	622	268	139	48	17	9.5	7.7
4	4.8	107	978	144	101	525	253	134	44	17	10	7.3
5	4.8	102	1500	200	95	457	250	129	43	16	11	6.9
6	6.0	120	991	195	92	403	242	124	41	16	11	6.9
7	9.7	479	563	244	89	373	369	116	41	16	11	6.9
8	9.2	255	416	917	88	345	425	112	41	16	11	6.9
9	12	189	332	823	87	325	353	107	40	16	11	6.4
10	62	458	275	507	82	306	373	100	41	16	9.5	6.4
11	57	278	252	452	79	284	337	94	40	16	9.1	6.0
12	25	214	286	418	79	257	298	88	37	17	8.2	6.0
13	19	186	236	382	107	239	272	84	36	15	9.1	6.4
14	16	189	203	349	134	242	250	80	34	13	16	6.4
15	14	1070	188	312	146	228	261	77	33	13	29	6.4
16	13	626	180	284	1160	218	235	74	31	13	26	6.4
17	13	399	173	259	812	214	232	72	29	13	18	7.3
18	19	278	159	240	782	250	253	69	28	13	20	6.9
19	16	227	149	224	670	246	228	67	28	12	18	6.9
20	14	214	141	205	500	232	225	64	28	11	15	6.4
21	14	172	151	191	414	232	218	63	26	11	13	6.4
22	20	158	210	180	353	306	214	60	27	11	13	6.4
23	19	147	166	170	310	295	204	59	26	11	13	6.4
24	14	134	155	160	278	462	211	59	25	11	11	6.0
25	954	127	148	150	788	443	195	57	24	11	11	5.9
26	953	139	182	143	1920	386	179	56	22	10	10	5.9
27	394	166	186	136	2010	341	170	55	21	10	10	5.9
28	286	145	162	131	2030	337	158	55	20	9.5	10	6.9
29	189	132	155	125	1430	310	153	52	21	9.5	9.1	6.9
30	544	180	164	120	---	295	150	57	20	9.5	8.6	6.4
31	286	---	150	114	---	329	---	60	---	9.1	8.2	---
TOTAL	4002.3	7344	9866	8172	14957	11294	7565	2669	1001	415.6	387.9	199.0
MEAN	129	245	318	264	516	364	252	86.1	33.4	13.4	12.5	6.63
MAX	954	1070	1500	917	2030	1010	425	156	56	19	29	7.7
MIN	4.8	102	141	114	79	214	150	52	20	9.1	8.2	5.9
AC-FT	7940	14570	19570	16210	29670	22400	15010	5290	1990	824	769	395

CAL YR 1975 TOTAL 134910.1 MEAN 370 MAX 8360 MIN 4.8 AC-FT 267600
WTR YR 1976 TOTAL 67872.8 MEAN 185 MAX 2030 MIN 4.8 AC-FT 134600

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to current year.
CHEMICAL ANALYSES: Water years 1974-75.
WATER TEMPERATURES: Water years 1973 to current year.
SEDIMENT RECORDS: Water years 1973 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1972 to current year.
SEDIMENT RECORDS.--October 1972 to current year.

INSTRUMENTATION.--Temperature recorder since October 1972.

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

EXTTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 32.0°C July 28, 1975; minimum (water years 1975-76), 1.0°C Jan. 31, 1975.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 11,200 mg/L Mar. 18, 1975; minimum daily mean, 1 mg/L on many days in 1973-74, 1976.
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.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 29.0°C July 25, 26; minimum, 2.0°C Feb. 6.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,250 mg/L Feb. 28; minimum daily mean, 1 mg/L many days.
SEDIMENT DISCHARGE: Maximum daily, 13,900 tons (12,600 tonnes) Feb. 28; minimum daily, 0.02 ton (0.02 tonne) on several days.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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	20.0	--	13.5	9.5	--	7.0	9.0	--	7.5	4.5	--	3.0	8.5	--	5.5	6.0	--	4.5
2	18.5	--	15.0	10.5	--	7.5	8.5	--	7.0	4.5	--	2.5	8.5	--	6.0	6.5	--	4.5
3	20.5	--	13.5	11.0	--	8.0	8.5	--	7.5	5.5	--	4.0	8.0	--	5.5	7.0	--	4.5
4	21.0	--	14.0	11.5	--	8.5	9.5	--	8.0	6.5	--	5.5	7.0	--	4.5	7.5	--	5.0
5	20.5	--	14.0	10.5	--	9.5	9.5	--	8.5	7.0	--	6.0	5.0	--	2.5	8.0	--	4.5
6	17.0	--	14.0	9.5	--	8.0	10.0	--	9.0	7.0	--	6.0	5.5	--	2.0	8.5	--	4.5
7	17.0	--	13.5	10.0	--	9.0	9.5	--	8.0	7.5	--	6.0	6.0	--	2.5	7.5	--	6.0
8	15.0	--	13.0	9.0	--	6.5	8.5	--	7.5	8.0	--	7.5	6.5	--	3.0	9.5	--	6.0
9	13.5	--	12.5	7.0	--	5.5	9.0	--	7.0	7.5	--	6.5	6.5	--	3.5	10.0	--	5.5
10	13.0	--	11.0	7.0	--	6.5	8.0	--	7.0	7.0	--	5.5	6.0	--	2.5	10.0	--	6.0
11	--	10.5	--	7.0	--	5.5	8.0	--	7.0	8.5	--	6.5	6.5	--	2.5	9.0	--	6.0
12	--	10.0	--	7.5	--	5.0	8.0	--	6.5	7.5	--	6.5	9.5	--	6.0	9.5	--	4.5
13	--	11.0	--	8.0	--	5.5	6.5	--	5.5	8.0	--	6.5	8.5	--	7.0	8.5	--	5.0
14	--	11.0	--	9.5	--	7.0	5.5	--	4.5	9.0	--	7.0	7.5	--	6.5	10.0	--	6.5
15	--	6.0	--	9.5	--	8.5	6.0	--	4.5	8.5	--	7.5	7.0	--	6.0	10.5	--	6.5
16	--	12.0	--	8.5	--	6.5	6.5	--	5.0	8.5	--	7.0	8.0	--	6.5	11.0	--	7.5
17	--	--	--	6.5	--	5.5	6.5	--	5.0	8.0	--	6.5	8.0	--	7.0	11.5	--	8.0
18	--	--	--	6.0	--	4.5	6.0	--	4.5	7.5	--	6.5	7.5	--	5.5	9.0	--	5.0
19	--	--	--	6.0	--	4.5	6.5	--	4.5	7.5	--	5.5	7.0	--	5.5	7.0	--	4.0
20	--	--	--	7.5	--	5.5	6.0	--	4.5	7.5	--	5.0	7.5	--	4.5	9.5	--	4.5
21	--	11.0	--	6.5	--	4.5	7.0	--	5.0	7.0	--	5.5	8.0	--	5.0	10.0	--	4.5
22	--	--	--	7.5	--	5.0	7.0	--	6.0	7.0	--	5.0	8.5	--	6.0	8.0	--	6.0
23	12.5	--	9.0	7.5	--	6.0	8.0	--	6.5	8.0	--	6.0	7.5	--	6.5	7.5	--	5.5
24	12.5	--	8.0	7.0	--	5.0	8.5	--	6.0	6.5	--	5.0	7.5	--	6.0	7.0	--	4.5
25	10.0	--	9.0	7.5	--	5.5	8.0	--	6.0	6.0	--	3.5	8.0	--	7.0	8.5	--	4.5
26	10.0	--	8.5	8.0	--	6.0	9.0	--	7.5	7.0	--	4.0	8.5	--	7.5	7.5	--	4.5
27	8.5	--	8.0	7.5	--	6.0	8.5	--	7.5	6.5	--	4.5	8.0	--	7.5	6.5	--	4.5
28	9.5	--	7.0	6.0	--	5.0	8.5	--	7.0	7.0	--	4.5	8.0	--	7.0	8.5	--	5.5
29	10.0	--	7.0	6.0	--	5.0	9.0	--	7.0	7.0	--	4.5	7.5	--	5.5	10.0	--	5.0
30	10.0	--	8.5	7.5	--	6.0	8.0	--	6.0	7.5	--	4.5	--	--	--	11.0	--	5.5
31	9.0	--	7.0	--	--	--	6.0	--	4.0	8.0	--	5.0	--	--	--	8.0	--	4.5
MONTH	--	--	--	11.5	--	4.5	10.0	--	4.0	9.0	--	2.5	9.5	--	2.0	11.5	--	4.0

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	APR MAX	APR MIN	MAY MAX	MAY MIN	JUN MAX	JUN MIN	JUL MAX	JUL MIN	AUG MAX	AUG MIN	SEP MAX	SEP MIN
	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY	DAILY
1	8.5 --	3.5	13.5 --	9.5	16.5 --	11.5	21.5 --	13.5	24.0 --	18.5	27.0 --	19.0
2	9.5 --	4.0	14.5 --	9.5	18.5 --	10.0	22.5 --	14.0	25.0 --	18.5	26.0 --	17.5
3	10.5 --	6.0	16.0 --	9.0	18.5 --	11.5	22.0 --	15.0	20.0 --	18.0	27.5 --	18.0
4	12.0 --	6.5	15.0 --	10.0	19.5 --	10.5	24.5 --	17.0	19.5 --	17.5	27.0 --	18.5
5	10.5 --	8.0	14.0 --	10.0	19.5 --	11.5	25.5 --	17.0	22.0 --	17.0	27.0 --	19.0
6	10.0 --	6.5	16.0 --	9.0	17.0 --	13.0	25.0 --	17.0	18.5 --	17.0	26.5 --	19.5
7	8.0 --	6.5	18.0 --	10.0	14.5 --	11.5	25.0 --	18.5	19.5 --	17.0	26.0 --	17.0
8	9.0 --	6.5	19.0 --	11.5	20.0 --	11.0	26.5 --	19.0	24.5 --	16.5	26.0 --	17.5
9	8.0 --	5.5	19.5 --	12.0	15.5 --	13.0	25.0 --	19.0	26.0 --	16.5	27.5 --	18.5
10	8.0 --	6.0	17.5 --	12.0	14.0 --	12.0	26.0 --	17.0	27.0 --	17.5	23.5 --	18.5
11	8.5 --	4.5	-- 13.0	--	15.5 --	11.0	20.5 --	18.0	26.5 --	17.5	23.5 --	17.0
12	8.0 --	5.5	-- --	--	19.0 --	12.0	26.5 --	18.0	26.5 --	18.5	20.5 --	17.0
13	11.0 --	6.0	-- --	--	20.5 --	11.0	26.0 --	17.5	19.5 --	18.0	23.0 --	15.0
14	11.5 --	5.5	-- --	--	23.0 --	10.5	27.5 --	18.0	19.5 --	17.5	20.5 --	16.5
15	8.5 --	5.5	-- --	--	24.0 --	12.0	28.5 --	19.5	19.0 --	16.0	22.0 --	15.0
16	9.5 --	4.5	-- --	--	25.5 --	13.5	25.5 --	19.5	19.0 --	15.5	18.5 --	16.5
17	9.5 --	5.5	-- --	--	27.0 --	11.5	26.5 --	19.5	17.5 --	15.5	22.0 --	16.0
18	11.0 --	6.0	-- --	--	26.0 --	13.0	27.0 --	20.0	19.5 --	16.0	22.5 --	15.5
19	12.5 --	5.5	17.5 --	12.5	24.5 --	13.0	27.0 --	19.5	24.0 --	15.5	23.5 --	15.5
20	13.5 --	8.0	18.0 --	9.5	23.0 --	11.5	27.0 --	18.5	25.5 --	17.0	19.0 --	17.0
21	10.5 --	7.5	19.0 --	10.5	14.0 --	10.5	26.5 --	18.0	26.0 --	18.5	21.0 --	16.0
22	12.5 --	8.5	19.0 --	12.0	22.0 --	9.0	27.0 --	18.0	23.0 --	18.5	22.5 --	15.5
23	10.0 --	7.0	19.5 --	11.5	23.0 --	9.0	26.0 --	19.0	25.0 --	18.0	22.5 --	14.0
24	12.0 --	9.0	17.0 --	12.5	24.5 --	10.0	28.5 --	19.5	26.0 --	18.5	22.5 --	14.5
25	12.5 --	6.5	20.5 --	13.0	23.0 --	10.0	29.0 --	19.5	24.5 --	18.0	22.0 --	14.5
26	12.5 --	6.5	21.5 --	12.5	24.5 --	15.0	29.0 --	20.5	24.5 --	16.0	21.0 --	14.5
27	12.5 --	6.0	16.0 --	12.5	25.0 --	15.5	28.0 --	20.0	25.5 --	16.5	19.0 --	15.5
28	13.0 --	7.0	19.0 --	11.5	25.0 --	16.0	28.0 --	19.0	27.0 --	18.0	21.5 --	16.5
29	13.5 --	7.5	15.0 --	10.5	24.0 --	17.0	25.0 --	20.5	27.5 --	18.5	22.5 --	15.5
30	16.0 --	8.5	14.5 --	12.5	19.0 --	16.0	27.0 --	18.5	27.5 --	19.0	22.5 --	16.0
31	-- --	--	15.5 --	12.0	-- --	--	26.0 --	18.5	27.5 --	19.0	-- --	--
MONTH	16.0 --	3.5	-- --	--	27.0 --	9.0	29.0 --	13.5	27.5 --	15.5	27.5 --	14.0

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER MEAN DISCHARGE (CFS)	OCTOBER MEAN CONCENTRATION (MG/L)	OCTOBER SEDIMENT DISCHARGE (TONS/DAY)	NOVEMBER MEAN DISCHARGE (CFS)	NOVEMBER MEAN CONCENTRATION (MG/L)	NOVEMBER SEDIMENT DISCHARGE (TONS/DAY)	DECEMBER MEAN DISCHARGE (CFS)	DECEMBER MEAN CONCENTRATION (MG/L)	DECEMBER SEDIMENT DISCHARGE (TONS/DAY)
1	5.2	3	.04	186	55	28	506	312	426
2	4.8	3	.04	145	40	16	286	125	97
3	4.8	3	.04	122	28	9.2	223	44	26
4	4.8	3	.04	107	11	3.2	978	854	3410
5	4.8	3	.04	102	10	2.8	1500	1030	4690
6	6.0	3	.05	120	20	6.5	991	590	1770
7	9.7	3	.08	479	334	534	563	230	350
8	9.2	3	.07	255	35	24	416	130	146
9	12	20	.65	189	25	13	332	70	63
10	62	371	73	458	268	392	275	32	24
11	57	151	30	278	40	30	252	35	24
12	25	10	.68	214	30	17	286	48	37
13	19	5	.26	186	25	13	236	25	16
14	16	3	.13	189	20	10	203	20	11
15	14	3	.11	1070	722	2710	188	18	9.1
16	13	3	.11	626	190	321	180	16	7.8
17	13	3	.11	399	110	119	173	14	6.5
18	19	4	.21	278	71	53	159	12	5.2
19	16	2	.09	227	35	21	149	10	4.0
20	14	2	.08	214	30	17	141	11	4.2
21	14	2	.08	172	25	12	151	16	6.5
22	20	5	.27	158	20	8.5	210	25	14
23	19	5	.26	147	20	7.9	166	11	4.9
24	14	3	.11	134	19	6.9	155	8	3.3
25	954	1690	7550	127	17	5.8	148	8	3.2
26	953	876	2970	139	24	9.0	182	59	34
27	394	300	319	166	22	9.9	186	22	11
28	286	125	97	145	19	7.4	162	10	4.4
29	189	60	31	132	18	6.4	155	8	3.3
30	544	610	1010	180	85	74	164	12	5.3
31	286	180	139	---	---	---	150	8	3.2
TOTAL	4002.3	---	12222.55	7344	---	4487.5	9866	---	11219.9

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	139	6	2.3	110	5	1.5	1010	500	1360
2	130	4	1.4	107	5	1.4	782	250	528
3	128	4	1.4	104	5	1.4	622	140	235
4	144	5	1.9	101	5	1.4	525	100	142
5	200	41	23	95	5	1.3	457	80	99
6	195	28	15	92	6	1.5	403	60	65
7	244	75	59	89	6	1.4	373	40	40
8	917	499	1400	88	4	.95	345	30	28
9	823	300	667	87	3	.70	325	20	18
10	507	140	192	82	3	.66	306	20	17
11	452	72	88	79	2	.43	284	16	12
12	418	100	113	79	2	.43	257	10	6.9
13	382	56	58	107	30	8.7	239	10	6.5
14	349	26	24	134	15	5.4	242	10	6.5
15	312	24	20	146	9	3.5	228	8	4.9
16	284	19	15	1160	1330	4500	218	8	4.7
17	259	16	11	812	331	791	214	8	4.6
18	240	14	9.1	782	172	383	250	18	12
19	224	12	7.3	670	219	396	246	14	9.3
20	205	10	5.5	500	110	148	232	17	11
21	191	8	4.1	414	45	50	232	17	11
22	180	6	2.9	353	35	33	306	49	44
23	170	5	2.3	310	30	25	295	27	22
24	160	5	2.2	278	25	19	462	81	116
25	150	5	2.0	788	232	591	443	30	36
26	143	5	1.9	1920	2020	11400	386	20	21
27	136	5	1.8	2010	1480	10900	341	20	18
28	131	5	1.8	2030	2250	13900	337	20	18
29	125	5	1.7	1430	1000	3860	310	20	17
30	120	5	1.6	---	---	---	295	20	16
31	114	5	1.5	---	---	---	329	20	18
TOTAL	8172	---	2737.7	14957	---	47026.67	11294	---	2947.4

	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	298	16	13	156	4	1.7	56	3	.45
2	291	12	9.4	150	4	1.6	50	2	.27
3	268	10	7.2	139	4	1.5	48	2	.26
4	253	7	4.8	134	4	1.4	44	2	.24
5	250	7	4.7	129	3	1.0	43	1	.12
6	242	7	4.6	124	3	1.0	41	1	.11
7	369	90	121	116	3	.94	41	1	.11
8	425	95	109	112	3	.91	41	1	.11
9	353	60	57	107	3	.87	40	1	.11
10	373	51	51	100	3	.81	41	1	.11
11	337	30	27	94	5	1.3	40	1	.11
12	298	20	16	88	4	.95	37	1	.10
13	272	15	11	84	4	.91	36	1	.10
14	250	10	6.8	80	4	.86	34	1	.09
15	261	9	6.3	77	4	.83	33	1	.09
16	235	8	5.1	74	4	.80	31	1	.08
17	232	7	4.4	72	4	.78	29	1	.08
18	253	24	16	69	3	.56	28	1	.08
19	228	10	6.2	67	3	.54	28	1	.08
20	225	8	4.9	64	3	.52	28	1	.08
21	218	6	3.5	63	3	.51	26	1	.07
22	214	5	2.9	60	3	.49	27	1	.07
23	204	5	2.8	59	3	.48	26	1	.07
24	211	6	3.4	59	3	.48	25	1	.07
25	195	10	5.3	57	3	.46	24	1	.06
26	179	4	1.9	56	3	.45	22	1	.06
27	170	4	1.8	55	3	.45	21	1	.06
28	158	7	3.0	55	3	.45	20	1	.05
29	153	4	1.7	52	3	.42	21	1	.06
30	150	4	1.6	57	3	.46	20	3	.16
31	---	---	---	60	5	.81	---	---	---
TOTAL	7565	---	513.3	2669	---	25.24	1001	---	3.51

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	19	3	.15	9.1	2	.05	7.7	1	.02
2	18	3	.15	9.5	2	.05	7.7	1	.02
3	17	3	.14	9.5	2	.05	7.7	1	.02
4	17	3	.14	10	1	.03	7.3	1	.02
5	16	2	.09	11	2	.06	6.9	1	.02
6	16	2	.09	11	3	.09	6.9	1	.02
7	16	3	.13	11	2	.06	6.9	1	.02
8	16	3	.13	11	2	.06	6.9	2	.04
9	16	3	.13	11	2	.06	6.4	2	.03
10	16	2	.09	9.5	2	.05	6.4	2	.03
11	16	2	.09	9.1	2	.05	6.0	2	.03
12	17	2	.09	8.2	2	.04	6.0	2	.03
13	15	2	.08	9.1	2	.05	6.4	2	.03
14	13	2	.07	16	3	.13	6.4	2	.03
15	13	1	.04	29	3	.23	6.4	2	.03
16	13	1	.04	26	3	.21	6.4	2	.03
17	13	1	.04	18	2	.10	7.3	2	.04
18	13	1	.04	20	2	.11	6.9	2	.04
19	12	1	.03	18	2	.10	6.9	2	.04
20	11	1	.03	15	3	.12	6.4	2	.03
21	11	1	.03	13	2	.07	6.4	2	.03
22	11	1	.03	13	2	.07	6.4	2	.03
23	11	1	.03	13	2	.07	6.4	2	.03
24	11	1	.03	11	2	.06	6.0	2	.03
25	11	1	.03	11	5	.15	5.9	2	.03
26	10	1	.03	10	2	.05	5.9	2	.03
27	10	2	.05	10	2	.05	5.9	2	.03
28	9.5	2	.05	10	2	.05	6.9	2	.04
29	9.5	4	.10	9.1	2	.05	6.9	2	.04
30	9.5	2	.05	8.6	1	.02	6.4	2	.03
31	9.1	2	.05	8.2	2	.04	---	---	---
TOTAL	415.6	---	2.27	387.9	---	2.38	199.0	---	.89
YEAR	67872.8		81189.31						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1975	4002.30	12222.55	1650	13900
NOVEMBER ...	7344.00	4487.50	1660	6140
DECEMBER ...	9866.00	11219.90	3300	14500
JANUARY 1976	8172.00	2737.70	1940	4680
FEBRUARY ...	14957.00	47026.67	8560	55600
MARCH	11294.00	2947.40	3190	6130
APRIL	7565.00	513.30	984	1500
MAY	2669.00	25.24	11	36
JUNE	1001.00	3.51	0	4
JULY	415.60	2.27	0	2
AUGUST	387.90	2.38	0	2
SEPTEMBER ..	199.00	0.89	0	1
TOTAL	67872.80	81189.31	21295	102495

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SFDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
OCT											
10...	0600	--	86	934	217	43	62	83	94	98	--
30...	1730	10.0	533	503	724	23	32	43	53	62	--
DEC											
05...	1010	8.5	1060	941	2690	17	27	37	48	58	65
JAN											
12...	1700	7.0	418	103	116	--	--	--	--	--	--
FEB											
17...	1640	7.0	718	455	882	25	35	46	57	68	--
26...	0730	8.5	2690	3360	24400	14	20	30	42	54	--
26...	1205	8.5	2150	2410	14000	15	22	31	41	51	--
26...	1600	8.0	2080	1940	10900	15	22	33	43	57	--
27...	1420	8.0	1490	1160	4670	14	22	31	40	50	--

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										
10...	99	--	99	--	100	--	--	--	--	--
30...	67	--	74	--	84	--	96	--	100	--
DEC										
05...	--	72	--	84	--	97	--	100	--	--
JAN										
12...	93	--	97	--	98	--	99	--	100	--
FEB										
17...	78	--	90	--	98	--	100	--	--	--
26...	66	--	79	--	93	--	99	--	100	--
26...	59	--	69	--	82	--	93	--	99	100
26...	68	--	81	--	95	--	99	--	100	--
27...	58	--	66	--	76	--	90	--	99	100

PARTICLE-SIZE DISTRIBUTION OF SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (CFS)	STREAM WIDTH (FT)	SEDIMENT BEDLOAD DISCHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
OCT									
10...	1515	13.0	--	40	--	.00	--	--	--
DEC									
19...	1545	6.5	--	147	--	.00	--	--	--
FEB									
19...	1400	5.5	5	627	79	588	--	1	4
26...	0910	8.5	5	2610	99	1050	2	5	18
26...	1150	8.5	5	2140	98	1410	1	3	16
26...	1505	8.5	5	2020	97	2020	2	6	16
26...	1805	8.0	5	1960	97	857	2	5	20
27...	1505	8.0	5	1580	96	2350	--	1	4
APR									
01...	1335	8.0	14	287	74	45	--	1	4
MAY									
11...	1430	18.0	--	93	57	.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
OCT								
10...	--	--	--	--	--	--	--	--
DEC								
19...	--	--	--	--	--	--	--	--
FEB								
19...	7	19	41	62	79	92	97	100
26...	27	31	40	50	61	69	84	100
26...	30	44	55	64	73	82	87	100
26...	27	34	42	54	67	79	93	100
26...	33	43	51	60	72	87	100	--
27...	11	19	31	46	63	76	95	100
APR								
01...	21	46	63	73	81	84	100	--
MAY								
11...	--	--	--	--	--	--	--	--

11482200 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CA

LOCATION.--Lat 41°10'19", long 123°56'55", in SE¼NE¼ sec.16, T.9 N., R.2 E., Humboldt County, Redwood National Park (south boundary), on left bank 150 ft (46 m) downstream from Slide Creek, 8.6 mi (13.8 km) southeast of Orick, and 17 mi (27 km) upstream from mouth.

DRAINAGE AREA.--185 mi^2 (479 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 240 ft (73 m), from topographic map. Prior to Aug. 3, 1973, at different datum.

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

AVERAGE DISCHARGE.--6 years, 866 ft^3/s (24.53 m^3/s), 627,400 acre-ft/yr (774 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,000 ft^3/s (935 m^3/s) Mar. 18, 1975, gage height, unknown, from rating curve extended above 11,000 ft^3/s (312 m^3/s), on basis of runoff comparison with upstream and downstream stations; maximum gage height recorded, 29.36 ft (8.949 m) Mar. 2, 1972, datum then in use; minimum daily discharge, 4.5 ft^3/s (0.13 m^3/s) Oct. 17-21, 23, 26, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,900 ft^3/s (167 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Dec. 5	1930	5950	169	11.93	3.636
Feb. 28	0145	*10800	306	13.83	4.215

Minimum daily discharge, 11 ft^3/s (0.31 m^3/s) Oct. 1, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	546	2400	468	282	4100	960	331	141	54	29	22
2	12	417	1710	443	268	3090	910	325	127	53	29	22
3	12	324	1320	425	255	2380	840	303	120	50	29	22
4	12	268	2800	462	244	1970	790	292	114	47	28	22
5	11	243	4930	689	234	1710	750	269	111	47	28	22
6	14	273	3850	717	224	1520	730	255	107	47	28	22
7	28	982	2330	817	218	1370	710	241	105	45	29	22
8	25	836	1680	2560	209	1240	860	225	105	43	28	22
9	32	605	1340	2880	205	1120	1040	214	102	43	28	22
10	185	1400	1130	1920	198	1030	860	204	102	42	28	20
11	165	1140	995	1580	182	926	920	196	100	42	28	19
12	100	863	1130	1450	171	838	800	184	98	46	27	19
13	66	638	962	1310	262	768	710	182	93	45	26	17
14	53	595	840	1200	423	727	660	179	86	39	34	18
15	47	3120	752	1100	570	674	610	174	81	37	103	18
16	45	2220	692	1020	3210	623	640	169	77	35	100	18
17	44	1580	638	914	2500	598	580	166	73	42	64	18
18	62	1150	589	824	2380	691	540	162	70	39	54	19
19	52	905	540	750	2060	736	550	159	70	36	54	18
20	48	890	501	699	1580	665	515	155	69	36	40	18
21	46	728	552	655	1210	635	465	152	69	36	31	16
22	67	651	777	609	1040	801	435	149	66	35	27	16
23	63	598	634	566	954	886	415	146	66	33	25	16
24	50	534	555	524	867	1540	400	142	65	31	26	16
25	3000	487	504	484	2670	1800	420	140	62	31	25	15
26	2750	510	579	442	6680	1470	395	137	60	31	25	15
27	1850	595	675	405	5980	1210	370	134	58	30	25	15
28	1100	564	549	370	7570	1160	350	129	56	30	25	15
29	740	510	513	339	5560	1060	335	125	54	30	24	16
30	470	728	525	318	---	990	328	123	56	30	23	15
31	836	---	504	297	---	900	---	130	---	29	23	---
TOTAL	11996	24900	37496	27237	48206	39228	18888	5892	2563	1214	1093	555
MEAN	387	830	1210	879	1662	1265	630	190	85.4	39.2	35.3	18.5
MAX	3000	3120	4930	2880	7570	4100	1040	331	141	54	103	22
MIN	11	243	501	297	171	598	328	123	54	29	23	15
AC-FT	23790	49390	74370	54020	95620	77810	37460	11690	5080	2410	2170	1100

CAL YR 1975	TOTAL	385891	MEAN	1057	MAX	24700	MIN 11	AC-FT	765400
WTR YR 1976	TOTAL	219268	MEAN	599	MAX	7570	MIN 11	AC-FT	434900

NOTE.--No gage-height record Mar. 28 to Apr. 29.

11482200 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971 to current year.
CHEMICAL ANALYSES: Water years 1971 to June 1976 (discontinued).
WATER TEMPERATURES: Water years 1974 to current year.
SEDIMENT RECORDS: Water years 1971 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1973 to current year.

INSTRUMENTATION.--Temperature recorder since October 1973.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1974-75), 27.5°C June 29, 1974; minimum (water years 1974, 1976), 3.5°C Jan. 10, 1974, Jan. 2, 1976.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Minimum, 3.5°C Jan. 2.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
FEB					
18...	1815	2030	65	--	8.0
19...	1040	2170	77	7.1	6.5

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

11482200 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	6.0	14.5	12.5	15.0	12.0	20.5	15.5				
2	9.5	6.5	15.5	12.0	17.5	11.5	19.0	15.0				
3	10.5	7.5	16.5	12.0	17.5	12.5	---	---				
4	12.0	8.5	16.0	13.0	18.0	12.0	---	---				
5	11.0	10.0	16.0	13.0	18.0	12.5	---	---				
6	11.0	9.0	16.5	12.0	15.0	13.5	---	---				
7	10.5	9.5	18.5	12.5	14.5	13.0	---	---				
8	10.5	8.5	19.0	14.0	19.0	12.5	---	---				
9	9.5	8.0	19.0	14.5	16.5	14.0	---	---				
10	9.5	8.0	17.0	14.5	14.5	14.0	---	---				
11	9.5	7.5	19.0	13.5	16.0	13.5	---	---				
12	9.5	8.0	20.0	14.0	16.0	14.0	---	---				
13	11.5	8.0	20.0	15.0	20.0	13.5	---	---				
14	11.5	8.0	19.5	15.0	20.5	13.5	---	---				
15	10.5	8.5	20.0	14.0	21.0	15.0	---	---				
16	10.5	7.5	16.5	13.5	22.0	16.5	---	---				
17	10.0	8.0	17.0	12.0	23.0	16.0	---	---				
18	12.0	8.5	17.5	13.0	22.5	17.0	---	---				
19	13.0	8.5	18.0	13.0	22.5	17.0	---	---				
20	14.5	11.0	18.0	12.0	21.0	17.0	---	---				
21	12.5	10.5	18.0	12.5	17.5	15.5	---	---				
22	12.0	11.0	18.5	14.0	20.5	14.0	---	---				
23	12.0	10.5	18.5	13.5	21.5	15.0	---	---				
24	13.5	11.0	17.0	14.0	22.5	16.0	---	---				
25	13.0	9.5	19.5	14.0	22.0	16.0	---	---				
26	13.5	9.5	20.0	13.5	22.0	15.5	---	---				
27	14.0	9.5	17.0	14.0	23.0	16.0	---	---				
28	14.5	10.0	17.5	12.0	23.5	16.0	---	---				
29	14.5	11.0	14.5	11.5	22.5	17.5	---	---				
30	16.5	11.0	14.0	13.0	20.0	17.0	---	---				
31	---	---	14.0	12.5	---	---	---	---				
MONTH	16.5	6.0	20.0	11.5	23.5	11.5	---	---				

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
OCT								
06...	1400	16.0	14	5	.19	--	--	--
NOV								
03...	1320	11.0	319	64	55	--	--	--
DEC								
05...	1915	--	6080	2620	43000	--	--	--
06...	1230	10.0	3540	1240	11900	14	24	34
15...	1425	6.0	745	247	497	--	--	--
JAN								
21...	1425	6.5	644	133	231	--	--	--
FEB								
06...	1355	4.0	224	15	9.1	--	--	--
18...	1725	8.0	2050	510	2820	19	26	36
26...	0845	9.5	7970	4460	96000	12	19	28
26...	1015	9.5	8260	3840	85600	--	--	--
26...	1130	9.5	8170	3320	73200	19	26	37
26...	1300	9.0	8090	3220	70300	20	26	37
26...	1400	9.0	7720	3800	79200	--	--	--
26...	1515	9.0	7490	3030	61300	15	24	34
26...	1630	9.0	7040	3440	65400	13	20	28
26...	1715	9.0	6890	3460	64400	--	--	--
26...	1800	9.0	6730	2380	43200	--	--	--
27...	1445	9.0	4940	1250	16700	17	26	35
MAR								
19...	1435	8.0	709	168	322	41	49	61
APR								
30...	1430	13.0	334	15	14	--	--	--
MAY								
20...	1430	16.0	155	4	1.7	--	--	--
JUN								
02...	1310	14.0	127	2	.69	--	--	--
JUL								
02...	1355	19.0	53	3	.43	--	--	--

11482200 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT								
06...	--	--	--	--	--	--	--	--
NOV								
03...	--	--	82	85	90	97	98	100
DEC								
05...	--	--	73	--	--	--	--	--
06...	44	56	62	71	80	90	96	99
15...	--	--	58	67	73	82	95	100
JAN								
21...	--	--	51	56	65	80	92	100
FEB								
06...	--	--	--	--	--	--	--	--
18...	45	53	59	65	75	88	99	100
26...	37	47	55	64	74	90	97	100
26...	--	--	66	--	--	--	--	--
26...	51	63	73	84	93	98	100	--
26...	50	62	70	80	88	94	98	99
26...	--	--	60	--	--	--	--	--
26...	46	58	67	76	85	94	99	100
26...	37	45	52	60	69	81	92	96
26...	--	--	59	--	--	--	--	--
26...	--	--	65	--	--	--	--	--
27...	46	56	64	73	85	96	100	--
MAR								
19...	69	74	76	78	81	85	91	100
APR								
30...	--	--	--	--	--	--	--	--
MAY								
20...	--	--	--	--	--	--	--	--
JUN								
02...	--	--	--	--	--	--	--	--
JUL								
02...	--	--	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (CFS)	STREAM WIDTH (FT)	SEDIMENT BEDLOAD DISCHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
OCT									
06...	1230	16.0	--	14	23	.00	--	--	--
DEC									
06...	1200	10.0	5	3570	137	5620	1	2	10
15...	1450	6.0	5	745	62	991	--	--	1
JAN									
21...	1455	6.5	5	651	61	521	--	--	1
FEB									
06...	1355	4.0	--	224	--	.00	--	--	--
18...	1750	8.0	5	2030	140	3750	--	1	3
19...	1230	6.5	5	2110	138	3460	1	1	4
26...	1100	9.5	5	8170	148	6230	2	5	19
26...	1330	9.0	5	7900	153	6990	1	2	8
26...	1645	9.0	5	7000	148	4190	1	3	12
27...	1500	9.0	5	4990	145	7430	1	1	6
MAR									
19...	1355	8.0	--	718	66	309	--	--	--
MAY									
20...	1430	16.0	--	155	43	.00	--	--	--
JUN									
02...	1310	14.0	--	127	52	.00	--	--	--
JUL									
02...	1355	19.0	--	53	40	.00	--	--	--
21...	1305	22.0	--	36	36	.00	--	--	--
AUG									
27...	1500	--	--	24	36	.00	--	--	--

11482200 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 76.0 MM
OCT								
06...	--	--	--	--	--	--	--	--
DEC								
06...	19	31	50	67	79	90	95	100
15...	8	23	44	64	83	95	100	--
JAN								
21...	6	18	39	59	82	93	100	--
FEB								
06...	--	--	--	--	--	--	--	--
18...	9	24	47	68	86	94	97	100
19...	9	19	36	58	81	93	100	--
26...	32	45	55	66	78	91	94	100
26...	18	31	45	61	77	88	96	100
26...	23	36	47	58	72	79	95	100
27...	15	30	46	60	73	82	91	100
MAR								
19...	--	--	--	--	--	--	--	--
MAY								
20...	--	--	--	--	--	--	--	--
JUN								
02...	--	--	--	--	--	--	--	--
JUL								
02...	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--
AUG								
27...	--	--	--	--	--	--	--	--

11482468 LITTLE LOST MAN CREEK AT SITE NO. 2, NEAR ORICK, CA

LOCATION.--Lat 41°19'20", long 124°01'10", in NE¼SE¼ sec.23, T.11 N., R.1 E., Humboldt County, Redwood National Park, on right bank 0.8 mi (1.3 km) upstream from mouth, and 3.2 mi (5.1 km) northeast of Orick.

DRAINAGE AREA.--3.46 mi^2 (8.96 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 50 ft (15 m), from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 808 ft^3/s (22.9 m^3/s) Mar. 18, 1975, gage height, 4.32 ft (1.317 m); minimum daily, 0.13 ft^3/s (0.004 m^3/s) Oct. 19-21, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft^3/s (2.8 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Nov. 15	Unknown	110	3.12	Unknown		Feb. 16	1030	*165	4.67	2.93	0.893
Dec. 4	1630	145	4.11	2.92	0.890	Feb. 27	2130	100	2.83	2.63	0.802

Minimum daily discharge, 0.21 ft^3/s (0.006 m^3/s) Oct. 3-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.23	12	80	7.4	2.7	37	19	4.6	2.1	.70	.43	.39
2	.22	8.4	46	6.4	2.5	31	16	4.3	1.8	.62	.45	.39
3	.21	6.4	30	6.0	2.4	25	13	4.1	1.7	.62	.47	.39
4	.21	4.7	78	6.2	2.3	21	11	4.3	1.5	.62	.48	.38
5	.21	4.2	96	11	2.1	18	9.6	4.1	1.5	.55	.48	.38
6	.31	5.0	74	11	2.0	15	8.6	3.9	1.5	.55	.50	.38
7	.41	20	45	12	1.9	14	9.4	3.6	1.5	.55	.50	.36
8	.34	15	30	55	1.8	12	9.3	3.6	1.5	.55	.50	.34
9	.66	12	22	52	1.8	10	9.3	3.4	1.4	.62	.47	.32
10	1.8	18	16	32	1.7	9.5	23	3.4	1.4	.62	.43	.31
11	1.2	16	14	24	1.6	8.7	23	3.2	1.3	.62	.39	.31
12	.57	15	14	23	1.5	8.0	18	2.6	1.4	.62	.39	.29
13	.42	10	12	19	5.4	7.3	15	2.6	1.3	.62	.48	.29
14	.36	11	11	16	6.0	6.6	12	2.6	1.2	.55	2.3	.31
15	.33	90	9.7	13	10	6.2	11	2.4	1.2	.55	6.6	.31
16	.32	50	9.0	12	91	5.8	9.3	2.6	1.2	.48	2.3	.32
17	.81	30	8.3	12	57	5.6	9.2	2.4	1.2	.62	1.1	.32
18	2.5	20	7.2	11	49	7.0	10	2.4	1.1	.55	.92	.32
19	.79	15	6.3	9.5	45	8.0	9.0	2.4	1.1	.55	.78	.31
20	.52	13	5.7	8.3	35	7.0	8.4	2.3	1.1	.55	.69	.31
21	.70	11	6.6	7.3	26	6.0	7.9	2.3	1.1	.55	.63	.29
22	2.2	9.0	8.6	6.6	20	10	7.6	2.1	1.1	.55	.58	.31
23	1.4	7.9	7.4	6.0	17	12	6.7	2.1	.96	.48	.56	.29
24	.76	6.5	6.6	5.4	14	25	7.0	2.1	.87	.48	.54	.29
25	33	5.7	6.1	4.9	26	17	6.5	2.0	.78	.48	.52	.28
26	30	7.7	6.8	4.3	52	14	6.2	1.8	.78	.48	.50	.28
27	33	10	6.4	4.1	57	12	6.0	1.8	.78	.48	.48	.29
28	21	9.6	5.9	3.6	77	14	5.4	1.8	.70	.47	.47	.29
29	11	8.8	6.2	3.4	50	13	4.9	1.8	.70	.45	.45	.28
30	32	17	7.4	3.0	---	11	4.6	2.3	.70	.45	.43	.28
31	21	---	7.7	2.8	---	18	---	3.2	---	.43	.41	---
TOTAL	198.48	468.9	689.9	398.2	661.7	414.7	315.9	88.1	36.47	17.01	26.23	9.61
MEAN	6.40	15.6	22.3	12.8	22.8	13.4	10.5	2.84	1.22	.55	.85	.32
MAX	33	90	96	55	91	37	23	4.6	2.1	.70	6.6	.39
MIN	.21	4.2	5.7	2.8	1.5	5.6	4.6	1.8	.70	.43	.39	.28
AC-FT	394	930	1370	790	1310	823	627	175	72	34	52	19

CAL YR 1975 TOTAL 5811.70 MEAN 15.9 MAX 421 MIN .21 AC-FT 11530
WTR YR 1976 TOTAL 3325.20 MEAN 9.09 MAX 96 MIN .21 AC-FT 6600

11482468 LITTLE LOST MAN CREEK AT SITE NO. 2, NEAR ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to current year.
CHEMICAL ANALYSES: Water years 1974 to current year.
SEDIMENT RECORDS: Water years 1974 to current year.

REMARKS.--Prior to October 1975, published in Geological Survey Open-File Report 76-678, "Redwood National Park Studies", Data Release Number 2.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT								
27...	1815	39	--	--	10.0	14	1.5	87
NOV								
18...	1310	21	--	--	7.0	10	.57	58
DEC								
05...	1700	98	40	7.2	10.0	--	--	--
05...	2100	100	41	7.2	10.0	--	--	--
05...	2315	98	--	--	10.0	41	11	74
06...	0800	80	44	7.2	10.0	--	--	--
06...	0855	80	--	--	10.0	33	7.1	73
FEB								
16...	1530	137	--	--	8.5	103	38	81
18...	1915	45	35	--	8.0	--	--	--
18...	2025	43	--	--	7.5	15	1.7	85
18...	2130	44	30	--	7.5	--	--	--
18...	2215	47	--	--	7.5	17	2.2	77
18...	2330	44	30	--	7.5	--	--	--
18...	2345	47	--	--	7.5	13	1.6	75
19...	0230	47	31	7.4	7.5	--	--	--
19...	0240	47	--	--	7.5	16	2.0	84
19...	0430	48	30	7.3	7.5	--	--	--
19...	0530	49	--	--	7.5	17	2.2	75
19...	0715	48	--	--	7.0	14	1.8	76
19...	0920	45	--	--	7.0	12	1.5	72
19...	1130	47	30	7.2	7.0	--	--	--
19...	1220	48	--	--	7.0	11	1.4	80

11482500 REDWOOD CREEK AT ORICK, CA

LOCATION.--Lat 41°17'18", long 124°03'27", in NE¼NE¼ sec.4, T.10 N., R.1 E., Humboldt County, on left bank at upstream side of bridge on U.S. Highway 101 at Orick, 0.9 mi (1.4 km) downstream from Prairie Creek.

DRAINAGE AREA.--278 mi^2 (720 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1911 to September 1913, October 1953 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1315-B: 1912-13.

GAGE.--Water-stage recorder. Datum of gage is 5.16 ft (1.573 m) above mean sea level. Sept. 10, 1911, to Aug. 9, 1913, nonrecording gage at different datum.

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

AVERAGE DISCHARGE.--25 years, 1,101 ft^3/s (31.18 m^3/s), 797,000 acre-ft/yr (984 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50,500 ft^3/s (1,430 m^3/s) Dec. 22, 1964, gage height, 24.0 ft (7.32 m) from outside high-water marks; minimum, 9.3 ft^3/s (0.26 m^3/s) Oct. 17-19, 21, 23-26, 1974.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 18, 1953, reached a stage of 23.95 ft (7.300 m) from floodmarks, discharge, 50,000 ft^3/s (1,420 m^3/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 9,000 ft^3/s (255 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Dec. 4	2300	10100	286	12.45	3.795
Feb. 28	0439	*12100	343	13.48	4.109

Minimum daily discharge, 18 ft^3/s (0.51 m^3/s) Oct. 1-5, Sept. 14, 21-25, 27, 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	885	4390	782	470	4720	1350	446	215	73	36	28
2	18	622	2740	736	446	3670	1230	437	192	75	37	28
3	18	475	1950	706	419	2940	1120	415	184	73	36	27
4	18	406	4760	751	415	2410	1040	389	176	72	39	25
5	18	368	7900	1050	389	2070	963	380	165	67	39	26
6	21	372	6400	1100	341	1830	924	380	158	67	39	26
7	26	1360	3800	1130	330	1650	955	368	148	64	42	26
8	30	1280	2710	3940	319	1550	1340	337	148	61	45	25
9	40	845	2120	4870	311	1390	1190	315	143	65	43	24
10	111	1720	1730	3130	297	1260	1750	311	141	67	37	24
11	127	1610	1490	2640	279	1170	1770	319	143	61	34	21
12	97	1120	1810	2580	272	1070	1450	326	134	62	33	20
13	69	854	1430	2300	402	971	1290	308	143	62	29	20
14	53	797	1240	2060	529	932	1140	297	139	61	46	18
15	45	4690	1110	1820	736	878	1070	293	129	55	165	19
16	41	3560	1020	1580	4270	821	1010	269	117	52	141	19
17	42	2280	956	1360	3560	782	948	265	113	52	95	19
18	116	1620	880	1240	3380	829	1020	262	105	55	73	20
19	81	1280	795	1160	3100	924	916	249	99	56	73	20
20	63	1260	750	1060	2400	845	837	243	97	52	65	19
21	60	1030	840	932	1880	790	805	233	95	55	54	18
22	90	901	1050	821	1540	878	766	221	101	52	47	18
23	89	829	908	766	1340	1000	728	212	99	47	44	18
24	72	728	805	728	1190	1660	751	202	95	44	44	18
25	2270	663	751	677	3250	2070	699	187	92	43	42	18
26	4240	721	821	635	7370	1650	642	192	88	42	40	19
27	2180	878	932	595	6290	1440	608	181	83	42	37	18
28	1780	790	821	555	9070	1470	535	187	79	39	35	18
29	1000	685	782	523	5930	1330	502	184	76	37	32	21
30	1820	870	829	529	---	1190	475	184	72	37	30	20
31	1410	---	813	510	---	1400	---	218	---	37	29	---
TOTAL	16063	35499	59333	43266	60525	47590	29824	8810	3769	1727	1581	640
MEAN	518	1183	1914	1396	2087	1535	994	284	126	55.7	51.0	21.3
MAX	4240	4690	7900	4870	9070	4720	1770	446	215	75	165	28
MIN	18	368	750	510	272	782	475	181	72	37	29	18
AC-FT	31860	70410	117700	85820	120100	94390	59160	17470	7480	3430	3140	1270

CAL YR 1975 TOTAL 546671 MEAN 1498 MAX 38500 MIN 18 AC-FT 1084000
WTR YR 1976 TOTAL 308627 MEAN 843 MAX 9070 MIN 18 AC-FT 612200

11482500 REDWOOD CREEK AT ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955-56, 1959 to current year.
CHEMICAL ANALYSES: Water years 1959-66, 1973 to current year.
WATER TEMPERATURES: Water years 1966 to current year.
SEDIMENT RECORDS: Water years 1955-56, 1970 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1965 to current year.
SEDIMENT RECORDS: March 1970 to current year.

INSTRUMENTATION.--Temperature recorder since October 1965.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1970-71, 1973, 1975-76), 24.0°C July 10, 1976; minimum (water years 1966-73, 1975), 1.0°C Dec. 14, 1967.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 9,610 mg/L Mar. 18, 1975; minimum daily mean, 1 mg/L on many days in 1970, 1973-74.
SEDIMENT DISCHARGE: Maximum daily, 1,070,000 tons (971,000 tonnes) Mar. 18, 1975; minimum daily, 0.03 ton (0.03 tonne) Oct. 7, 8, 11, 12, 1970.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 24.0°C July 10.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,960 mg/L Feb. 28; minimum daily mean, 2 mg/L on many days.
SEDIMENT DISCHARGE: Maximum daily, 78,800 tons (71,500 tonnes) Feb. 28; minimum daily, 0.10 ton (0.09 tonne) on several days during September.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT							
06...A	1425	22	166	8.4	19.0	2	10.0
NOV							
03...A	1415	465	144	7.2	13.5	20	10.0
DEC							
01...A	1415	4620	90	7.4	10.0	240	10.7
06...	1210	6070	69	7.3	11.0	--	--
JAN							
05...A	1630	1170	93	7.2	8.5	95	11.7
FEB							
02...A	1500	442	106	7.1	9.0	5	11.4
19...	1015	3340	73	7.5	7.0	--	--
MAR							
01...A	1435	4500	92	8.4	7.0	190	11.5
APR							
05...A	1415	980	92	8.0	11.0	15	10.6
MAY							
03...A	1345	437	107	7.5	16.0	5	10.0
JUN							
07...A	1315	146	137	7.6	14.0	1	10.6
JUL							
12...A	1400	68	163	7.5	21.0	1	10.0
AUG							
03...A	1005	34	168	7.1	15.0	1	9.7
SEP							
13...A	1345	21	176	7.4	20.0	1	9.8

DATE	TIME	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
FEB											
02...A	1500	45	6	3.5	.2	48	0	39	4.4	--	--
APR											
05...A	1415	40	6	3.8	.3	41	0	34	3.8	.03	.10

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL ZINC (ZN) (UG/L)
FEB										
02...	--	--	--	0	--	--	--	--	--	--
APR										
05...	.10	.00	.00	100	0	10	540	0	30	30

11482500 REDWOOD CREEK AT ORICK, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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	--	--	--	--	--	--	9.5	--	8.5	--	--	--	--	9.0	--	6.5	--	5.5
2	--	--	--	--	--	--	10.5	--	9.5	--	--	--	--	8.0	--	6.0	--	5.0
3	--	--	--	--	--	--	11.0	--	10.0	--	--	--	--	8.0	--	7.0	--	5.0
4	--	--	--	--	--	--	11.0	--	10.0	--	--	--	--	8.0	--	7.0	--	5.5
5	--	--	--	--	--	--	11.0	--	10.5	--	--	--	--	6.0	--	7.5	--	5.0
6	--	--	--	--	--	--	--	11.0	--	--	--	--	--	8.0	--	8.0	--	5.5
7	--	--	--	--	--	--	--	--	--	--	--	--	--	7.5	--	7.0	--	7.0
8	--	--	--	--	--	--	--	11.0	--	--	--	--	--	--	--	9.5	--	6.5
9	--	--	--	--	--	--	--	--	--	--	8.0	--	--	8.0	--	9.5	--	6.5
10	--	--	--	--	--	--	--	--	--	--	--	--	--	6.5	--	8.0	--	7.5
11	--	--	--	--	--	--	--	8.5	--	--	--	--	6.5	--	5.5	9.5	--	6.5
12	--	--	--	--	10.0	--	--	--	--	--	--	--	8.5	--	6.0	9.0	--	6.0
13	--	--	--	--	--	--	--	--	--	--	--	--	7.5	--	7.0	8.5	--	7.0
14	--	--	--	--	--	--	--	--	--	--	--	--	7.0	--	6.5	10.0	--	7.5
15	--	--	--	--	10.5	--	--	--	--	--	--	--	7.0	--	6.0	10.0	--	8.5
16	--	--	--	--	9.5	--	--	--	--	--	--	--	7.5	--	7.0	11.0	--	8.5
17	--	--	--	--	--	--	--	--	--	--	--	--	7.5	--	7.5	11.0	--	9.0
18	--	--	--	--	--	--	--	--	--	--	--	--	7.5	--	6.5	9.5	--	8.0
19	--	--	--	--	--	--	--	--	--	--	--	--	7.5	--	6.5	9.5	--	6.5
20	--	--	--	--	--	--	--	--	--	--	9.0	--	7.0	--	5.5	10.5	--	6.0
21	--	--	--	--	--	--	--	--	--	--	--	--	7.5	--	5.5	10.5	--	7.0
22	--	--	--	--	--	--	--	--	--	--	8.0	--	8.0	--	6.5	9.5	--	8.0
23	--	--	--	11.0	--	8.5	--	--	--	--	8.0	--	7.0	--	7.0	9.0	--	7.0
24	--	13.0	--	10.5	--	8.5	--	--	--	--	8.0	--	7.5	--	7.0	8.0	--	7.0
25	12.5	--	10.5	10.5	--	8.5	--	--	--	--	7.0	--	9.0	--	7.5	7.0	--	6.0
26	--	--	--	10.0	--	9.0	--	--	--	--	5.0	--	9.5	--	8.0	--	7.0	--
27	11.5	--	10.0	10.0	--	9.0	--	--	--	--	6.5	--	9.5	--	8.0	--	--	--
28	11.0	--	9.5	9.0	--	8.0	--	--	--	--	7.5	--	9.0	--	7.5	--	--	--
29	11.5	--	9.5	8.5	--	7.5	--	--	--	--	8.0	--	7.5	--	6.5	--	--	--
30	11.0	--	10.0	9.0	--	7.0	--	--	--	--	9.0	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--	--	6.0	--	--	--	--	--	7.5	--
MONTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.0	--	5.0

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	--	10.0	--	13.5	--	12.0	17.5	--	11.5	21.5	--	14.0	18.0	--	15.0	17.0	--	15.5
2	--	7.0	--	16.0	--	11.0	18.0	--	10.5	22.5	--	14.5	20.0	--	15.5	21.0	--	14.0
3	--	11.0	--	17.0	--	11.5	18.0	--	12.0	20.0	--	15.0	16.5	--	15.5	21.5	--	15.0
4	--	11.0	--	15.5	--	12.0	18.5	--	11.5	23.5	--	16.5	19.5	--	15.5	18.5	--	15.5
5	--	9.0	--	16.0	--	12.0	17.5	--	12.5	23.5	--	16.0	18.5	--	15.5	20.5	--	15.5
6	--	10.5	--	17.0	--	11.0	16.0	--	13.0	23.0	--	15.5	17.5	--	15.0	21.5	--	16.0
7	--	10.0	--	18.5	--	11.5	14.5	--	13.0	23.0	--	17.5	18.5	--	15.5	21.0	--	13.5
8	--	8.5	--	17.0	--	12.5	19.5	--	12.0	20.5	--	18.0	22.0	--	15.0	22.0	--	14.0
9	--	8.5	--	16.0	--	13.0	16.0	--	13.5	23.5	--	17.5	22.0	--	14.5	22.5	--	15.0
10	--	9.0	--	15.0	--	13.0	16.0	--	13.5	24.0	--	17.0	21.0	--	15.0	21.5	--	15.0
11	--	--	--	18.5	--	12.5	15.0	--	13.0	22.0	--	17.0	18.0	--	15.5	21.0	--	16.0
12	--	10.0	--	20.0	--	12.0	15.5	--	13.5	23.0	--	17.5	21.0	--	15.0	21.5	--	14.5
13	--	8.5	--	16.5	--	13.5	20.5	--	12.5	23.0	--	16.5	16.5	--	15.5	21.0	--	14.0
14	--	11.0	--	18.5	--	13.5	21.0	--	13.0	23.5	--	15.5	16.5	--	15.0	19.0	--	15.0
15	--	8.5	--	19.0	--	12.0	21.0	--	13.5	22.5	--	16.0	16.5	--	14.5	21.0	--	13.5
16	--	11.0	--	15.5	--	13.0	20.5	--	15.0	18.5	--	16.5	19.0	--	15.0	16.5	--	15.5
17	--	9.0	--	17.0	--	10.5	22.0	--	15.0	19.5	--	16.0	17.5	--	15.0	21.0	--	15.0
18	--	9.5	--	16.5	--	12.0	21.0	--	15.5	18.0	--	16.0	18.5	--	15.5	19.5	--	15.0
19	--	13.0	--	18.0	--	12.0	19.0	--	15.5	22.0	--	15.5	22.0	--	15.0	19.5	--	15.5
20	--	12.0	--	18.0	--	11.0	16.0	--	15.0	19.0	--	15.5	22.0	--	15.0	19.0	--	16.0
21	--	12.0	--	18.0	--	11.5	17.5	--	14.5	22.0	--	14.5	21.5	--	16.0	20.5	--	16.0
22	--	10.5	--	17.0	--	13.0	21.5	--	13.5	22.0	--	15.0	19.0	--	16.5	20.0	--	15.5
23	--	10.5	--	17.5	--	12.0	22.0	--	13.5	21.0	--	16.0	18.5	--	16.0	19.0	--	15.5
24	--	12.0	--	16.5	--	12.5	22.5	--	14.5	20.5	--	16.0	22.0	--	15.5	20.5	--	15.0
25	--	10.0	--	18.5	--	13.0	22.0	--	14.5	21.0	--	16.0	21.5	--	15.5	17.0	--	15.5
26	--	11.0	--	19.5	--	12.0	22.0	--	14.0	21.5	--	16.0	21.5	--	14.0	20.5	--	14.0
27	--	15.0	--	16.0	--	13.0	23.0	--	14.5	22.0	--	15.0	21.5	--	14.0	18.5	--	15.0
28	--	12.0	--	17.5	--	11.5	22.0	--	14.5	21.5	--	15.5	22.0	--	14.5	21.5	--	16.0
29	14.5	--	12.5	14.0	--	11.0	22.5	--	16.0	19.5	--	15.5	21.5	--	15.5	21.5	--	15.5
30	16.5	--	10.5	13.0	--	12.5	21.5	--	15.5	20.5	--	15.0	21.5	--	15.5	21.5	--	15.5
31	--	--	--	14.5	--	12.0	--	--	--	21.5	--	14.0	21.0	--	15.5	--	--	--
MONTH	--	--	--	20.0	--	10.5	23.0	--	10.5	24.0	--	14.0	22.0	--	14.0	22.5	--	13.5

11482500 REDWOOD CREEK AT ORICK, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	18	5	.24	885	140	335	4390	1690	20700
2	18	5	.24	622	100	168	2740	495	3660
3	18	5	.24	475	65	83	1950	280	1480
4	18	5	.24	406	45	49	4760	2450	54200
5	18	5	.24	368	35	35	7900	2750	60800
6	21	6	.34	372	42	42	6400	1780	33400
7	26	5	.35	1360	629	2930	3800	713	7310
8	30	4	.32	1280	273	944	2710	489	3580
9	40	10	1.1	845	135	308	2120	418	2400
10	111	70	22	1720	1170	6400	1730	365	1710
11	127	27	9.3	1610	447	1940	1490	324	1310
12	97	12	3.1	1120	204	617	1810	383	1880
13	69	10	1.9	854	142	327	1430	214	826
14	53	8	1.1	797	145	312	1240	147	492
15	45	6	.73	4690	2540	39400	1110	129	386
16	41	5	.55	3560	949	9120	1020	110	303
17	42	4	.45	2280	502	3090	956	93	239
18	116	37	12	1620	356	1560	880	90	214
19	81	8	1.7	1280	245	845	795	84	180
20	63	3	.51	1260	247	839	750	85	172
21	60	7	1.1	1030	147	408	840	95	215
22	90	9	2.2	901	105	255	1050	184	520
23	89	6	1.4	829	100	224	908	145	355
24	72	4	.78	728	85	167	805	100	217
25	2270	2500	38600	663	68	122	751	78	158
26	4240	2820	37400	721	97	189	821	110	244
27	2180	791	4660	878	107	254	932	110	277
28	1780	517	2490	790	72	154	821	82	182
29	1000	232	627	685	52	96	782	62	131
30	1820	726	3560	870	117	432	829	62	139
31	1410	321	1220	---	---	---	813	45	99
TOTAL	16063	---	88619.13	35499	---	71645	59333	---	197779

	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	782	53	112	470	18	23	4720	1000	12800
2	736	56	111	446	16	19	3670	722	7150
3	706	45	86	419	14	16	2940	492	3910
4	751	90	182	415	14	16	2410	362	2360
5	1050	281	796	389	10	11	2070	311	1740
6	1100	170	505	341	9	8.3	1830	266	1320
7	1130	146	444	330	10	8.9	1650	218	971
8	3940	1870	22500	319	9	7.8	1550	180	755
9	4870	1320	17400	311	9	7.6	1390	157	591
10	3130	541	4570	297	8	6.4	1260	123	418
11	2640	397	2830	279	8	6.0	1170	97	306
12	2580	385	2680	272	10	7.3	1070	89	255
13	2300	310	1930	402	80	87	971	80	208
14	2060	263	1470	529	105	150	932	78	196
15	1820	240	1180	736	126	250	878	60	142
16	1580	194	829	4270	2170	34200	821	44	98
17	1360	178	654	3560	1000	10100	782	36	76
18	1240	152	509	3380	744	7130	829	75	168
19	1160	127	397	3100	506	4300	924	105	262
20	1060	119	342	2400	322	2080	845	78	178
21	932	93	234	1880	266	1350	790	58	124
22	821	72	160	1540	227	943	878	105	249
23	766	60	124	1340	196	709	1000	138	380
24	728	48	94	1190	189	608	1660	914	5890
25	677	39	71	3250	1520	15700	2070	622	3470
26	635	35	60	7370	2950	62300	1650	253	1120
27	595	34	55	6290	1680	30800	1440	185	718
28	555	30	45	9070	2960	78800	1470	153	609
29	523	42	59	5930	1330	21400	1330	119	426
30	529	30	43	---	---	---	1190	89	287
31	510	25	34	---	---	---	1400	158	626
TOTAL	43266	---	60506	60525	---	271044.3	47590	---	47803

11482500 REDWOOD CREEK AT ORICK, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	1350	113	413	446	14	17	215	3	1.7
2	1230	81	267	437	12	14	192	2	1.0
3	1120	67	203	415	11	12	184	2	.99
4	1040	56	157	389	10	11	176	2	.95
5	963	51	131	380	15	15	165	2	.89
6	924	49	122	380	11	11	158	2	.85
7	955	80	219	368	11	11	148	4	1.6
8	1340	251	926	337	11	10	148	2	.80
9	1190	118	378	315	9	7.7	143	2	.77
10	1750	320	1570	311	7	5.9	141	2	.76
11	1770	216	1030	319	8	6.9	143	2	.77
12	1450	112	440	326	6	5.3	134	6	2.2
13	1290	83	288	308	5	4.2	143	6	2.3
14	1140	64	199	297	5	4.0	139	5	1.9
15	1070	64	184	293	4	3.2	129	3	1.0
16	1010	49	134	269	4	2.9	117	2	.63
17	948	51	129	265	4	2.9	113	2	.61
18	1020	57	157	262	4	2.8	105	2	.57
19	916	43	106	249	4	2.7	99	2	.53
20	837	60	136	243	4	2.6	97	2	.52
21	805	40	87	233	3	1.9	95	3	.77
22	766	40	83	221	3	1.8	101	3	.82
23	728	30	59	212	3	1.7	99	3	.80
24	751	29	59	202	3	1.6	95	4	1.0
25	699	22	42	187	3	1.5	92	8	2.0
26	642	20	35	192	2	1.0	88	3	.71
27	608	18	30	181	3	1.5	83	3	.67
28	535	16	23	187	3	1.5	79	2	.43
29	502	16	22	184	3	1.5	76	2	.41
30	475	12	15	184	4	2.0	72	2	.39
31	---	---	---	218	8	4.7	---	---	---
TOTAL	29824	---	7644	8810	---	172.8	3769	---	29.34

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	73	2	.39	36	4	.39	28	2	.15
2	75	2	.41	37	4	.40	28	2	.15
3	73	2	.39	36	4	.39	27	3	.22
4	72	2	.39	39	4	.42	25	3	.20
5	67	2	.36	39	4	.42	26	3	.21
6	67	3	.54	39	4	.42	26	3	.21
7	64	2	.35	42	4	.45	26	3	.21
8	61	2	.33	45	4	.49	25	3	.20
9	65	3	.53	43	10	1.2	24	3	.19
10	67	3	.54	37	8	.80	24	4	.26
11	61	3	.49	34	6	.55	21	3	.17
12	62	6	1.0	33	6	.53	20	3	.16
13	62	4	.67	29	6	.47	20	3	.16
14	61	4	.66	46	10	1.2	18	3	.15
15	55	3	.45	165	52	23	19	3	.15
16	52	3	.42	141	22	8.4	19	3	.15
17	52	3	.42	95	6	1.5	19	3	.15
18	55	3	.45	73	6	1.2	20	3	.16
19	56	6	.91	73	7	1.4	20	3	.16
20	52	6	.84	65	6	1.1	19	2	.10
21	55	6	.89	54	6	.87	18	2	.10
22	52	6	.84	47	6	.76	18	2	.10
23	47	5	.63	44	5	.59	18	3	.15
24	44	4	.48	44	5	.59	18	3	.15
25	43	4	.46	42	3	.34	18	3	.15
26	42	4	.45	40	4	.43	19	3	.15
27	42	4	.45	37	4	.40	18	2	.10
28	39	6	.63	35	4	.38	18	2	.10
29	37	4	.40	32	4	.35	21	2	.11
30	37	3	.30	30	4	.32	20	2	.11
31	37	4	.40	29	3	.23	---	---	---
TOTAL	1727	---	16.47	1581	---	49.99	640	---	4.73
YEAR	308627.0		745313.76						

11482500 REDWOOD CREEK AT ORICK, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1975	16063.00	88619.13	5600	94200
NOVEMBER ...	35499.00	71645.00	8310	80000
DECEMBER ...	59333.00	197779.00	26100	224000
JANUARY 1976	43266.00	60506.00	13100	73600
FEBRUARY ...	60525.00	271044.30	32000	303000
MARCH	47590.00	47803.00	12900	60800
APRIL	29824.00	7644.00	2540	10200
MAY	8810.00	172.80	1	174
JUNE	3769.00	29.34	0	29
JULY	1727.00	16.47	0	16
AUGUST	1581.00	49.99	0	50
SEPTEMBER ..	640.00	4.73	0	5
TOTAL	308627.00	745313.76	100551	846074

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
OCT											
27...	1045	10.0	2070	527	2950	26	33	43	54	63	--
29...	1250	10.5	893	172	415	35	44	58	69	76	--
NOV											
12...	1415	10.0	1100	196	582	--	--	--	--	--	--
15...	1510	10.5	6950	3000	56300	16	25	37	50	65	--
16...	1015	9.5	3500	802	7580	26	34	45	57	69	--
DEC											
01...	0835	9.5	5140	1940	26900	15	21	32	44	58	--
06...	1105	11.0	6240	1390	23400	15	23	34	44	55	64
08...	1535	11.0	2600	393	2760	--	--	--	--	--	--
11...	1130	8.5	1490	305	1230	--	--	--	--	--	59
JAN											
09...	0905	8.0	5140	1240	17200	20	29	40	53	65	75
22...	1355	8.0	813	73	160	23	32	43	52	57	--
FEB											
18...	1830	7.5	2910	458	3600	20	29	39	49	56	--
19...	1040	7.0	3320	589	5280	15	21	30	39	47	--
22...	1725	--	1500	201	814	--	--	--	--	--	--
25...	1545	9.0	4550	1900	23300	13	20	30	42	58	--
26...	0815	9.5	7980	3230	69600	17	24	36	51	64	--
26...	1135	9.5	8890	3520	84500	17	26	38	52	65	--
26...	1625	9.0	8580	3320	76900	20	21	34	45	57	--
27...	1415	9.5	5290	1210	17300	13	21	30	40	50	--
28...	0920	9.0	10100	3050	83200	17	26	39	52	66	--
MAR											
23...	1120	9.0	1000	160	432	33	41	55	66	73	--
AUG											
15...	1400	16.5	195	73	38	--	--	--	--	--	--

11482500 REDWOOD CREEK AT ORICK, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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										
27...	69	--	77	--	91	--	97	--	98	100
29...	79	--	82	--	90	--	99	--	100	--
NOV										
12...	66	--	69	--	82	--	95	--	100	--
15...	76	--	90	--	99	--	100	--	--	--
16...	77	--	85	--	98	--	100	--	--	--
DEC										
01...	70	--	84	--	97	--	98	--	99	100
06...	--	73	--	90	--	99	--	100	--	--
08...	71	--	82	--	93	--	99	--	100	--
11...	--	76	--	99	--	100	--	--	--	--
JAN										
09...	--	85	--	99	--	100	--	--	--	--
22...	58	--	61	--	70	--	94	--	100	--
FEB										
18...	62	--	67	--	79	--	95	--	100	--
19...	52	--	57	--	71	--	93	--	99	100
22...	56	--	59	--	68	--	89	--	95	100
25...	72	--	86	--	96	--	97	--	99	100
26...	78	--	91	--	99	--	100	--	--	--
26...	76	--	87	--	98	--	100	--	--	--
26...	65	--	74	--	86	--	93	--	96	98
27...	58	--	67	--	81	--	95	--	99	100
28...	78	--	88	--	98	--	100	--	--	--
MAR										
23...	77	--	82	--	89	--	99	--	100	--
AUG										
15...	98	--	99	--	100	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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
OCT								
24...	1430	13.0	--	73	52	.00	--	--
DEC								
06...	1145	11.0	5	6140	192	2290	2	4
JAN								
22...	1425	8.0	5	813	119	985	1	1
FEB								
19...	1310	7.0	5	3260	181	3000	2	2
26...	1105	9.5	5	8790	213	1980	1	3
26...	1540	9.0	5	8750	213	5060	1	3
26...	1745	9.0	5	8120	210	3040	1	3
27...	1230	9.5	5	5240	--	6150	1	1
MAY								
24...	1500	16.5	--	206	87	.00	--	--
JUL								
09...	1525	22.0	--	70	99	.00	--	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM
OCT								
24...	--	--	--	--	--	--	--	--
DEC								
06...	16	23	31	47	66	83	100	--
JAN								
22...	10	39	67	85	95	99	100	--
FEB								
19...	12	29	47	65	81	95	100	--
26...	6	12	24	41	60	84	96	100
26...	13	38	55	65	75	87	98	100
26...	15	35	48	61	75	88	99	100
27...	11	39	64	76	85	92	100	--
MAY								
24...	--	--	--	--	--	--	--	--
JUL								
09...	--	--	--	--	--	--	--	--

11489500 ANTELOPE CREEK NEAR TENNANT, CA

LOCATION.--Lat 41°32'48", long 121°55'02", in NW¼NW¼ sec.25, T.43 N., R.1 W., Siskiyou County, Shasta National Forest, on right bank 2.5 mi (4.0 km) south of Tennant, 4 mi (6 km) downstream from Frog Lake, and 17 mi (27 km) southeast of town of Mount Hebron.

DRAINAGE AREA.--18.6 mi^2 (48.2 km^2).

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

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,080 ft (1,548 m), from topographic map.

REMARKS.--Records good except those for the winter period, which are fair. No storage or diversion above station.

AVERAGE DISCHARGE.--24 years, 36.9 ft^3/s (1.045 m^3/s), 26,730 acre-ft/yr (33.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,350 ft^3/s (38.2 m^3/s) Nov. 11, 1973, gage height, 5.19 ft (1.582 m), from rating curve extended above 180 ft^3/s (5.10 m^3/s) on basis of slope-area measurement at gage height 4.00 ft (1.219 m); minimum daily, 3.6 ft^3/s (0.10 m^3/s) Jan. 5, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 68 ft^3/s (1.93 m^3/s) May 13, gage height, 2.13 ft (0.649 m), no peak above base of 100 ft^3/s (2.83 m^3/s); maximum gage height, 2.66 ft (0.811 m) Feb. 7 (backwater from ice); minimum daily discharge, 9.1 ft^3/s (0.26 m^3/s) Sept. 27, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	17	16	12	14	16	17	30	30	15	15	10
2	14	17	15	11	14	15	15	31	29	15	14	9.9
3	14	17	15	11	14	15	16	31	32	15	13	9.8
4	14	17	16	12	14	14	17	32	28	14	12	9.7
5	14	18	21	13	12	10	18	33	27	14	12	9.6
6	20	18	19	14	11	11	17	33	25	14	12	9.6
7	17	21	17	14	11	12	20	35	25	14	12	9.5
8	16	18	16	14	12	13	22	38	24	13	12	9.5
9	16	17	16	14	12	14	18	46	24	13	12	9.4
10	20	17	15	15	12	14	17	52	25	13	12	9.4
11	18	16	15	14	13	14	17	52	23	13	11	9.3
12	17	17	15	14	14	14	16	49	23	13	11	9.5
13	16	17	14	14	13	14	17	55	22	13	11	9.5
14	16	17	13	14	13	14	17	58	21	12	16	9.4
15	16	26	12	14	14	15	18	52	21	12	26	9.8
16	15	22	13	14	13	16	17	50	20	12	17	12
17	15	19	15	14	13	19	16	49	20	14	14	10
18	15	16	16	14	13	24	17	46	20	15	15	9.8
19	15	15	15	15	14	18	19	43	19	13	14	9.6
20	15	15	15	25	15	17	22	40	19	12	13	9.5
21	15	16	15	27	13	17	21	39	24	12	12	9.4
22	16	16	14	16	13	17	22	38	21	12	20	9.4
23	15	16	14	14	13	16	24	37	19	11	17	9.3
24	15	16	15	15	13	16	26	37	18	11	13	9.3
25	16	16	14	22	13	15	25	36	18	11	12	9.3
26	18	16	14	15	13	15	22	35	17	11	12	9.2
27	17	16	14	14	17	15	23	35	16	11	11	9.1
28	17	16	14	14	17	15	23	34	16	11	11	9.4
29	16	15	15	14	15	15	24	32	16	11	11	9.2
30	22	15	15	14	---	16	27	33	15	11	10	9.1
31	18	---	14	14	---	17	---	33	---	10	10	---
TOTAL	502	515	467	461	388	473	590	1244	657	391	413	287.5
MEAN	16.2	17.2	15.1	14.9	13.4	15.3	19.7	40.1	21.9	12.6	13.3	9.58
MAX	22	26	21	27	17	24	27	58	32	15	26	12
MIN	14	15	12	11	11	10	15	30	15	10	10	9.1
AC-FT	996	1020	926	914	770	938	1170	2470	1300	776	819	570

CAL YR 1975 TOTAL 12289.0 MEAN 33.7 MAX 197 MIN 11 AC-FT 24380
WTR YR 1976 TOTAL 6388.5 MEAN 17.5 MAX 58 MIN 9.1 AC-FT 12670

11510700 KLAMATH RIVER BELOW JOHN C. BOYLE POWERPLANT, NEAR KENO, OR

LOCATION.--Lat 42°05'05", long 122°04'20", in SE¼SE¼ sec.14, T.40 S., R.6 E., Klamath County, on right bank 0.7 mi (1.1 km) downstream from John C. Boyle powerplant, 8 mi (13 km) downstream from Spencer Creek, and 8.5 mi (13.7 km) southwest of Keno.

DRAINAGE AREA.--4,080 mi^2 (10,570 km^2), approximately (not including Lost River or Lower Klamath Lake basins).

PERIOD OF RECORD.--January 1959 to current year. Prior to Oct. 1, 1961, published as "below Big Bend powerplant."

GAGE.--Water-stage recorder. Datum of gage is 3,274.82 ft (998.165 m) above mean sea level (levels by Pacific Power and Light Co.).

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow regulated by Upper Klamath Lake (station 11507000). Large diurnal fluctuation caused by John C. Boyle powerplant and 2 powerplants below Upper Klamath Lake. Diversions for irrigation above station.

AVERAGE DISCHARGE.--17 years, 1,919 ft^3/s (54.35 m^3/s), 1,390,000 acre-ft/yr (1.71 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,000 ft^3/s (312 m^3/s) Mar. 5, 1972, gage height, 9.33 ft (2.844 m); minimum, 283 ft^3/s (8.01 m^3/s) Feb. 17, 1968; minimum daily, 317 ft^3/s (8.98 m^3/s) July 25, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 5,000 ft^3/s (142 m^3/s) Dec. 5-9; minimum, 340 ft^3/s (9.63 m^3/s) June 3, 8-10, 12, 15, 19-21; minimum daily, 364 ft^3/s (10.3 m^3/s) July 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1830	2750	3600	2750	2800	2260	2110	1050	683	545	872	1120
2	1790	2740	3800	2740	2810	2200	1960	1060	550	545	1000	1200
3	1810	2740	4000	2740	2810	2250	1790	1330	545	550	852	1210
4	1820	2750	4800	2730	2800	2080	1810	1160	555	560	1030	1210
5	1810	2750	5000	2800	2800	2130	1760	990	550	368	1290	1220
6	1820	2750	5000	2800	2800	2130	1440	990	545	545	1430	1230
7	1820	2750	5000	2800	2800	2130	1390	983	545	550	1360	1230
8	1820	2750	5000	2800	2800	2170	1410	724	545	550	1040	1270
9	1670	2770	5000	2800	2800	2190	1420	724	550	550	1050	1270
10	1670	2770	4400	2800	2630	2190	1370	772	550	550	948	1280
11	1670	2750	4000	2800	2290	2140	1140	706	545	545	927	1280
12	1860	2750	3600	2800	2300	2200	1590	683	550	550	962	1290
13	2160	2750	3400	2670	2300	2090	1200	678	540	545	948	1290
14	2430	2770	3400	2770	2300	2080	941	678	545	550	913	1310
15	2430	2750	3400	2820	2240	2200	1070	635	545	545	1160	1270
16	2440	2750	3200	2820	2250	2190	1600	550	545	635	1380	1530
17	2430	2570	2800	2820	2300	2200	2240	640	545	640	1130	1230
18	2430	2770	2800	2810	2300	2200	846	595	545	443	1010	1200
19	2420	2750	2800	2810	2250	2190	941	683	540	718	1000	1210
20	2430	2750	2800	2810	2200	2090	1120	645	540	368	1010	1450
21	2520	2750	2800	2810	2140	2080	1160	645	545	364	1020	1430
22	2700	2750	2800	2810	2140	2200	1160	550	540	427	808	1420
23	2680	2750	2800	2820	2200	2140	1160	379	536	451	1030	1410
24	2680	2850	2800	2810	2140	2140	1020	645	545	459	983	1410
25	2680	3400	2810	2810	2140	2140	1140	600	545	464	941	1430
26	2680	3400	2800	2810	2200	2190	1200	645	545	560	990	1430
27	2680	3400	2780	2810	2310	2030	1160	645	540	486	976	1450
28	2710	3600	2780	2810	2170	2030	1160	640	545	459	997	1440
29	2750	3600	2770	2810	2150	2170	1190	913	545	509	997	1440
30	2750	3600	2750	2810	---	2110	1170	913	545	640	955	1450
31	2750	---	2750	2800	---	2110	---	820	---	371	1050	---
TOTAL	70140	86980	108440	86600	70170	66650	40668	23671	16489	16042	32059	39610
MEAN	2263	2899	3498	2794	2420	2150	1356	764	550	517	1034	1320
MAX	2750	3600	5000	2820	2810	2260	2240	1330	683	718	1430	1530
MIN	1670	2570	2750	2670	2140	2030	846	379	536	364	808	1120
AC-FT	139100	172500	215100	171800	139200	132200	80660	46950	32710	31820	63590	78570

CAL YR 1975 TOTAL 844953 MEAN 2315 MAX 5630 MIN 375 AC-FT 1676000
WTR YR 1976 TOTAL 657519 MEAN 1797 MAX 5000 MIN 364 AC-FT 1304000

RESERVOIRS IN KLAMATH RIVER BASIN, CA

11511400 COPCO LAKE NEAR COPCO.--Lat 41°58'46", long 122°20'00", in SE¼SW¼ sec.29, T.48 N., R.4 W., Siskiyou County, 12.7 mi (20.4 km) northeast of Hornbrook. DRAINAGE AREA, 4,300 mi^2 (11,137 km^2). PERIOD OF RECORD. October 1967 to current year. GAGE, pressure device and telemark read once daily. Datum of gage is at mean sea level (levels by Pacific Power and Light Co.).

Reservoir is formed by gravity-type dam completed in 1922. Normal capacity at elevation 2,607.5 ft (794.77 m) is 46,867 acre-ft (57.8 hm^3). Records, including extremes, represent contents at 0800 hours. Records of contents furnished by Pacific Power and Light Co.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 46,818 acre-ft (57.7 hm^3) June 24, 1969, elevation, 2,607.45 ft (794.751 m); minimum, 30,360 acre-ft (37.4 hm^3) Aug. 19, 1971, elevation, 2,589.24 ft (789.200 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 46,106 acre-ft (56.8 hm^3) Apr. 13, elevation, 2,606.73 ft (794.531 m); minimum 36,844 acre-ft (45.4 hm^3) Aug. 1, elevation, 2,596.84 ft (791.517 m).

11516510 IRON GATE RESERVOIR NEAR HORNBROOK.--Lat 41°55'58", long 122°26'06", in SW¼SW¼ sec.9, T.47 N., R.5 W., Siskiyou County, 6.6 mi (10.6 km) northeast of Hornbrook. DRAINAGE AREA, 4,573 mi^2 (11,844 km^2). PERIOD OF RECORD, October 1967 to current year. GAGE, pressure device and telemark read once daily. Datum of gage is at mean sea level (levels by Pacific Power and Light Co.).

Reservoir is formed by earth- and rockfill dam completed in 1962. Capacity is 58,794 acre-ft (72.5 hm^3) at elevation 2,328.0 ft (709.57 m), crest of spillway. Records, including extremes, represent contents at 0800 hours. Records of contents furnished by Pacific Power and Light Co.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 61,776 acre-ft (76.2 hm^3) Mar. 3, 1972, elevation, 2,330.96 ft (710.477 m); minimum, 50,103 acre-ft (61.8 hm^3) Dec. 9, 1968, elevation, 2,318.40 ft (706.648 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 59,996 acre-ft (74.0 hm^3) Dec. 5, elevation, 2,329.21 ft (709.943 m); minimum, 54,977 acre-ft (67.8 hm^3) Sept. 13, elevation, 2,323.97 ft (708.346 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)a	Contents (acre-feet)	Change in contents (acre-feet)	Elevation (feet)a	Contents (acre-feet)	Change in contents (acre-feet)
	11511400 COPCO LAKE			11516510 IRON GATE RESERVOIR		
Sept. 30	2600.96	40595	--	2326.43	57278	--
Oct. 31	2604.12	43573	+2978	2328.52	59309	+2031
Nov. 30	2602.57	42102	-1471	2328.72	59507	+198
Dec. 31	2601.94	41509	-593	2328.55	59338	-169
CAL YR 1975	--	--	-244	--	--	+19
Jan. 31	2602.00	41565	+56	2328.55	59338	0
Feb. 29	2603.45	42935	+1370	2328.59	59378	+40
Mar. 31	2604.58	44015	+1080	2328.41	59200	-178
Apr. 30	2605.18	45594	+1579	2326.67	57507	-1693
May 31	2603.72	43192	-2402	2327.16	57977	+470
June 30	2602.96	42470	-722	2326.36	57211	-766
July 31	2597.52	37453	-5017	2326.74	57574	+363
Aug. 31	2605.20	44613	+7160	2325.99	56858	-716
Sept. 30	2604.86	44285	-328	2325.60	56491	-367
WTR YR 1976	--	--	+3690	--	--	-787

a Elevation at 0800.

11516530 KLAMATH RIVER BELOW IRON GATE DAM, CA

LOCATION.--Lat 41°55'41", long 122°26'35", in SE¼NE¼ sec.17, T.47 N., R.5 W., Siskiyou County, on left bank 0.1 mi (0.2 km) downstream from Bogus Creek, 0.6 mi (1.0 km) downstream from Iron Gate Dam, and 5.9 mi (9.5 km) northeast of Hornbrook.

DRAINAGE AREA.--4,630 mi^2 (11,990 km^2), approximately (not including Lost River and Lower Klamath Lake basins).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,162.44 ft (659.112 m) above mean sea level (levels by Pacific Power and Light Co.).

REMARKS.--Records excellent. Flow regulated by Upper Klamath Lake, capacity, 527,700 acre-ft (651 hm^3), revised, Iron Gate Reservoir (station 11516510), other smaller reservoirs, and diversions above station.

AVERAGE DISCHARGE.--16 years, 2,315 ft^3/s (65.56 m^3/s), 1,677,000 acre-ft/yr (2,070 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,400 ft^3/s (833 m^3/s) Dec. 22, 1964, gage height, 13.63 ft (4.154 m), from rating curve extended above 15,000 ft^3/s (425 m^3/s) on basis of slope-area measurement of maximum flow; minimum daily, 647 ft^3/s (18.3 m^3/s) Oct. 30, Nov. 6, 1960, Sept. 24, Oct. 1, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,900 ft^3/s (167 m^3/s) Dec. 5, gage height, 6.95 ft (2.118 m); minimum daily, 709 ft^3/s (20.1 m^3/s) July 26, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1820	3080	3900	3060	3080	3150	2620	1490	850	718	1030	1340
2	1820	3080	3800	3060	3060	3000	2610	1490	745	718	985	1340
3	1820	3080	3720	3080	3100	2820	2350	1500	736	718	983	1340
4	1830	3070	4530	3160	3060	2620	2280	1490	742	719	999	1340
5	1830	3070	5730	3170	3020	2460	2370	1480	742	719	1000	1340
6	1840	3070	5520	3120	2980	2450	1890	1490	746	718	1000	1340
7	1840	3070	5210	3120	3010	2460	1840	1490	735	718	1000	1340
8	1840	3060	5220	3320	3090	2460	1850	1310	741	720	999	1340
9	1840	3060	5150	3380	3090	2510	1850	1290	738	721	997	1340
10	1840	3110	5080	3190	2640	2530	1850	1180	760	718	997	1340
11	1840	3080	4490	3140	2500	2470	1840	1010	745	718	1000	1340
12	1840	3090	4410	3180	2450	2350	1840	1000	743	720	1010	1350
13	1980	3050	3560	3170	2480	2270	1830	1010	742	718	1010	1340
14	2620	3010	3590	3150	2490	2210	1840	1010	741	717	1020	1340
15	2660	3220	3490	3150	2470	2340	1840	1000	725	715	1030	1340
16	2660	3170	3500	3140	2540	2560	1840	1000	711	714	1020	1350
17	2660	3050	3450	3200	2570	2660	1840	1000	712	716	1010	1350
18	2680	3010	3250	3170	2540	2690	1840	1000	716	717	1020	1350
19	2650	3000	3090	3120	2560	2690	1580	1010	716	716	1020	1350
20	2670	3000	3050	3110	2520	2530	1510	1010	717	715	1070	1350
21	2740	2980	3010	3110	2520	2480	1510	1010	720	715	1130	1580
22	2940	3010	3040	3060	2500	2620	1510	1010	717	715	1130	1600
23	2940	3000	3110	3080	2470	2680	1510	1000	717	713	1140	1600
24	2940	3090	3090	3100	2400	2600	1510	1000	717	713	1130	1600
25	2990	3500	3120	3090	2460	2610	1500	1000	718	715	1140	1600
26	3020	3420	3100	3100	3440	2580	1500	1000	719	709	1130	1610
27	2990	3510	3140	3090	3170	2540	1500	1000	719	709	1130	1600
28	3030	3560	3150	3080	3340	2480	1510	1000	717	716	1130	1600
29	3070	3550	3190	3060	3220	2570	1510	1000	718	727	1130	1600
30	3070	3640	3160	3060	---	2570	1500	1010	720	728	1130	1600
31	3070	---	3120	3080	---	2610	---	1000	---	735	1150	---
TOTAL	75380	94690	117970	97100	80770	79570	54370	35290	21985	22248	32670	42850
MEAN	2432	3156	3805	3132	2785	2567	1812	1138	733	718	1054	1428
MAX	3070	3640	5730	3380	3440	3150	2620	1500	850	735	1150	1610
MIN	1820	2980	3010	3060	2400	2210	1500	1000	711	709	983	1340
AC-FT	149500	187800	234000	192600	160200	157800	107800	70000	43610	44130	64800	84990

CAL YR 1975 TOTAL 1017289 MEAN 2787 MAX 6810 MIN 705 AC-FT 2018000
WTR YR 1976 TOTAL 754893 MEAN 2063 MAX 5730 MIN 709 AC-FT 1497000

11516530 KLAMATH RIVER BELOW IRON GATE DAM, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962 to current year.
CHEMICAL ANALYSES: Water years 1962 to current year.
WATER TEMPERATURES: Water years 1963 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1962 to current year.

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

EXTREMES FOR PERIOD OF DAILY 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.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 22.5°C July 26; minimum recorded, 3.0°C Jan. 12, 20.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT 15...	0935	2660	215	7.9	14.5	2	7.2
NOV 05...	1615	3070	183	7.2	9.5	4	9.2
DEC 02...	1030	3760	155	7.2	5.0	4	11.4
JAN 08...	1145	3300	196	8.4	3.0	6	11.3
FEB 03...	0915	3110	195	7.4	4.0	7	11.5
MAR 11...	1330	2460	160	7.4	6.5	9	11.6
APR 13...	0930	1830	200	8.2	10.0	4	11.5
MAY 11...	1000	1010	171	8.4	15.0	2	12.3
JUN 02...	0915	745	161	8.4	16.0	2	11.2
JUL 08...	1130	720	160	8.4	21.0	2	11.2
AUG 10...	0910	999	172	8.0	21.0	2	9.8
SEP 03...	0915	1350	186	8.1	20.0	2	9.4

DATE	TIME	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED NITRATE (N) (MG/L)
DEC 02...	1030	50	0	14	.9	72	0	59	.5	.63
MAY 11...	1000	61	0	14	.8	84	0	69	6.4	.08

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL ZINC (ZN) (UG/L)
DEC 02...	--	--	.07	0	--	--	--	--	--	--
MAY 11...	.50	.06	.04	0	0	0	60	0	10	0

11516530 KLAMATH RIVER BELOW IRON GATE DAM, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	10.5	9.5	---	---	---	---	5.5	4.0	6.0	4.5
2	---	---	11.0	9.5	---	---	---	---	5.0	4.0	5.5	4.5
3	---	---	10.0	9.5	---	---	---	---	5.0	4.0	6.0	4.5
4	---	---	10.5	9.5	5.0	4.5	---	---	5.0	4.0	6.0	4.5
5	---	---	10.0	9.5	4.5	4.5	4.5	4.0	4.5	3.5	6.0	5.0
6	---	---	10.0	9.5	4.5	4.5	4.5	4.0	5.0	3.5	6.0	4.5
7	16.5	16.5	10.0	9.5	4.5	4.5	4.5	4.0	5.0	3.5	5.5	4.5
8	16.5	16.0	10.0	9.0	4.5	4.5	4.0	4.0	5.0	3.5	6.0	5.0
9	16.0	16.0	9.5	9.0	5.0	4.5	4.0	3.5	5.0	4.0	6.0	5.0
10	16.0	13.5	9.5	9.0	5.0	4.5	3.5	3.5	5.0	4.0	7.0	5.0
11	15.5	13.5	10.0	9.0	5.0	4.5	3.5	3.5	5.0	4.0	6.5	5.0
12	16.0	15.5	9.5	9.0	---	---	3.0	3.0	5.5	4.0	6.0	5.0
13	16.0	15.5	10.0	9.0	---	---	---	---	5.5	4.0	6.0	5.0
14	15.5	13.0	9.5	8.5	---	---	---	---	5.0	4.0	6.5	5.5
15	13.0	11.0	9.5	8.5	---	---	---	---	5.0	4.0	6.5	5.0
16	12.5	11.0	9.0	8.5	---	---	---	---	5.0	4.0	6.5	6.0
17	12.0	11.0	---	---	---	---	3.5	3.5	5.5	4.0	7.0	5.5
18	12.0	10.5	---	---	---	---	3.5	3.5	5.0	4.0	6.5	5.5
19	12.0	11.0	---	---	---	---	3.5	3.5	5.0	4.0	6.5	5.0
20	11.5	10.0	---	---	---	---	4.0	3.0	5.0	4.0	8.0	6.0
21	11.5	10.0	---	---	---	---	5.0	4.0	5.0	4.0	8.0	6.0
22	11.5	11.0	---	---	---	---	4.0	4.0	5.0	4.0	7.0	6.0
23	11.5	10.5	8.5	7.5	---	---	4.5	4.0	5.5	4.0	7.5	6.0
24	11.0	10.5	8.0	8.0	---	---	4.5	4.0	5.0	4.0	7.5	6.0
25	11.0	10.5	7.5	7.5	---	---	5.0	4.0	5.5	4.5	8.0	5.5
26	11.0	11.0	7.0	6.5	---	---	5.0	3.5	6.0	5.0	8.5	6.0
27	11.0	10.5	6.0	6.0	---	---	5.0	3.5	6.0	4.5	8.5	6.0
28	10.5	10.5	---	---	---	---	5.0	4.0	6.0	5.0	8.5	6.0
29	10.5	10.0	---	---	---	---	5.0	4.0	5.5	5.0	8.0	7.0
30	10.5	10.5	5.0	4.5	---	---	5.0	4.0	---	---	8.5	6.0
31	11.0	10.0	---	---	---	---	5.0	4.0	---	---	8.0	6.0
MONTH	16.5	10.0	---	---	---	---	---	---	6.0	3.5	8.5	4.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	6.0	13.0	11.0	---	---	19.0	16.5	21.0	19.5	20.5	18.5
2	8.5	5.5	14.5	11.0	17.5	15.5	19.5	16.5	21.0	20.0	20.5	18.0
3	9.0	5.5	15.0	11.0	18.0	15.5	20.0	16.5	21.0	19.0	20.5	18.5
4	9.0	7.5	14.5	12.0	17.5	15.0	20.0	17.0	21.0	19.5	21.5	19.5
5	9.0	6.5	15.5	12.0	17.5	15.5	20.0	17.5	20.5	19.5	20.5	19.0
6	9.0	6.5	15.0	11.0	19.0	16.0	21.0	18.0	20.5	19.0	20.5	19.0
7	8.0	5.5	15.5	12.0	17.5	15.0	19.5	17.5	20.5	19.5	20.5	18.0
8	9.5	7.0	16.0	11.5	19.0	15.5	20.5	17.5	21.0	19.0	20.0	18.0
9	9.0	8.0	15.5	13.0	17.5	16.0	21.0	17.5	21.0	18.5	19.5	17.0
10	9.5	7.5	14.5	13.0	17.0	15.5	21.0	18.0	21.0	19.0	19.0	16.5
11	9.0	6.5	16.0	12.0	16.5	15.0	20.5	18.0	21.0	19.0	19.5	17.0
12	9.5	8.0	16.5	13.5	17.0	15.5	21.0	17.5	21.0	18.5	19.0	16.5
13	10.5	7.5	17.0	13.5	17.5	15.5	21.0	17.5	21.0	19.0	19.0	16.5
14	10.5	8.5	17.0	13.0	18.5	16.0	20.5	18.5	20.5	18.5	20.0	16.5
15	10.0	9.0	18.0	13.5	19.5	16.0	21.0	17.5	19.5	18.0	19.0	17.0
16	10.5	8.5	16.0	14.0	18.5	15.5	20.5	18.0	19.5	17.5	19.5	16.5
17	10.0	8.5	17.0	13.5	19.5	16.5	21.0	18.0	19.5	18.0	19.0	17.0
18	11.5	9.0	17.0	14.0	19.0	16.5	21.0	18.5	19.5	17.0	19.0	16.5
19	12.0	9.0	17.5	14.0	19.5	16.5	21.5	19.5	20.0	17.0	19.5	16.5
20	12.0	10.0	17.0	13.5	19.5	16.5	22.0	18.5	20.0	17.0	19.0	17.0
21	11.0	9.5	17.0	13.0	20.5	16.5	21.5	18.5	20.0	18.0	19.0	17.0
22	12.5	9.5	17.5	14.5	20.0	16.5	21.5	19.5	19.5	17.5	19.0	16.0
23	11.5	9.5	18.0	15.0	19.5	16.5	21.5	19.5	20.0	17.0	19.0	16.5
24	13.5	9.5	16.5	15.0	20.5	16.5	22.0	20.0	20.0	18.0	19.0	16.5
25	12.5	10.0	18.0	14.5	20.5	16.5	22.0	19.0	20.5	17.5	19.0	17.0
26	13.0	9.5	18.0	15.0	19.5	16.5	22.5	20.0	20.5	17.0	18.5	16.0
27	12.5	10.0	19.5	15.5	19.5	16.5	21.5	20.0	19.5	17.5	18.0	16.0
28	12.0	10.0	18.5	15.0	20.0	16.5	22.0	20.0	19.5	17.0	19.0	15.5
29	12.5	9.5	16.5	15.5	19.5	16.5	21.5	20.0	20.5	17.0	19.0	16.0
30	13.5	10.5	16.0	14.0	20.0	16.5	21.5	20.0	20.0	17.5	19.0	16.0
31	---	---	17.5	14.0	---	---	21.5	20.0	20.0	18.5	---	---
MONTH	13.5	5.5	19.5	11.0	20.5	15.0	22.5	16.5	21.0	17.0	21.5	15.5

11516900 LITTLE SHASTA RIVER NEAR MONTAGUE, CA

LOCATION.--Lat 41°45'11", long 122°17'42", in NW¼NW¼ sec.15, T.45 N., R.4 W., Siskiyou County, on right bank 0.5 mi (0.8 km) downstream from Dry Creek, and 12 mi (19 km) east of Montague.

DRAINAGE AREA.--48.2 mi^2 (124.8 km^2).

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

GAGE.--Water-stage recorder. Altitude of gage is 3,360 ft (1,024 m), from topographic map. Prior to May 27, 1965, water-stage recorder at site 0.2 mi (0.3 km) downstream at different datum.

REMARKS.--No known diversion or regulation above station.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey.

AVERAGE DISCHARGE.--19 years, 20.2 ft^3/s (0.572 m^3/s), 14,630 acre-ft/yr (18.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,910 ft^3/s (167 m^3/s) Dec. 22, 1964, gage height, 12.2 ft (3.72 m) present site and datum, from slope-area measurement of maximum flow; minimum daily, 0.60 ft^3/s (0.017 m^3/s) Jan. 4, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 91 ft^3/s (2.58 m^3/s) Dec. 4, gage height, 2.14 ft (0.652 m); minimum daily, 4.6 ft^3/s (0.13 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	9.5	20	11	9.7	19	28	64	38	12	13	5.6
2	6.9	9.0	22	10	10	17	29	66	35	12	9.7	5.6
3	6.9	9.1	18	9.1	10	14	32	65	34	12	8.5	5.5
4	6.9	8.9	36	8.0	6.7	14	38	60	33	12	7.4	5.4
5	6.9	9.2	64	9.1	6.7	13	45	62	31	11	7.0	5.4
6	9.8	9.8	41	10	6.5	16	43	64	29	11	7.4	5.4
7	8.6	14	26	10	6.5	17	46	69	28	11	7.0	5.3
8	7.8	12	20	13	7.0	22	56	69	26	11	6.9	5.2
9	7.5	9.3	17	13	7.8	30	47	72	25	11	6.5	5.1
10	7.8	7.7	16	11	8.6	39	42	75	25	11	6.2	5.1
11	7.5	8.8	14	12	9.4	34	37	72	24	10	6.0	5.1
12	7.6	9.2	13	11	10	24	33	71	23	11	6.0	5.1
13	7.5	9.4	12	11	11	22	32	73	22	11	6.0	5.1
14	7.2	11	12	12	10	24	34	74	21	10	9.7	5.1
15	7.2	33	11	16	8.7	29	39	70	20	10	12	5.2
16	7.1	21	11	24	9.7	44	31	67	19	10	12	6.0
17	7.0	12	10	25	10	57	30	65	18	9.9	9.0	5.3
18	7.5	8.7	10	19	11	57	31	63	18	9.9	8.9	5.2
19	7.1	10	9.1	15	10	39	35	61	17	9.8	8.2	5.2
20	7.0	11	10	13	9.7	34	44	58	16	9.4	6.8	5.1
21	7.6	9.2	10	13	10	34	46	56	16	9.4	6.3	4.9
22	10	9.1	11	12	10	34	47	53	16	9.2	8.9	4.9
23	8.1	8.9	12	12	9.8	29	52	52	15	9.0	9.5	4.8
24	7.9	8.6	14	11	10	28	60	51	15	8.6	6.9	4.8
25	15	8.6	13	8.7	11	25	55	49	14	8.3	6.3	4.8
26	21	8.9	15	10	35	23	49	46	14	8.3	6.1	4.8
27	12	9.4	16	10	27	21	48	43	13	8.3	6.0	4.7
28	11	7.0	17	9.8	27	21	48	41	13	8.2	6.0	4.8
29	10	7.7	19	9.6	22	23	48	39	13	8.1	5.9	4.7
30	17	9.0	19	9.4	---	29	55	37	12	7.8	5.7	4.6
31	11	---	14	9.5	---	33	---	39	---	7.1	5.7	---
TOTAL	279.3	319.0	552.1	377.2	340.8	865	1260	1846	643	307.3	237.5	153.8
MEAN	9.01	10.6	17.8	12.2	11.8	27.9	42.0	59.5	21.4	9.91	7.66	5.13
MAX	21	33	64	25	35	57	60	75	38	12	13	6.0
MIN	6.9	7.0	9.1	8.0	6.5	13	28	37	12	7.1	5.7	4.6
AC-FT	554	633	1100	748	676	1720	2500	3660	1280	610	471	305

CAL YR 1975 TOTAL 10015.1 MEAN 27.4 MAX 127 MIN 6.2 AC-FT 19860
WTR YR 1976 TOTAL 7181.0 MEAN 19.6 MAX 75 MIN 4.6 AC-FT 14240

11517500 SHASTA RIVER NEAR YREKA, CA

LOCATION.--Lat 41°49'23", long 122°35'40", in SE¼NE¼ sec.24, T.46 N., R.7 W., Siskiyou County, on right bank 0.5 mi (0.8 km) upstream from mouth, and 7 mi (11 km) north of Yreka.

DRAINAGE AREA.--793 mi^2 (2,054 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1933 to December 1941, December 1944 to current year.

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 2,000 ft (610 m), from topographic map. Prior to Nov. 2, 1933, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow partly regulated by Lake Dwinnell beginning in 1928; storage limited to 50,000 acre-ft (61.6 hm^3). Many diversions above station for irrigation.

AVERAGE DISCHARGE.--39 years, 188 ft^3/s (5.324 m^3/s), 136,200 acre-ft/yr (168 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,500 ft^3/s (609 m^3/s) Dec. 22, 1964, gage height, 12.92 ft (3.938 m) in gage well, 13.85 ft (4.221 m) from floodmarks, from rating curve extended above 4,100 ft^3/s (116 m^3/s) on basis of slope-area measurement of maximum flow; minimum, 3.4 ft^3/s (0.10 m^3/s) Aug. 13, 1939, when about 2 ft^3/s (0.06 m^3/s) was being diverted around gage.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 552 ft^3/s 15.6 m^3/s) Feb. 26, gage height, 4.38 ft (1.335 m); minimum daily, 8.0 ft^3/s (0.23 m^3/s) July 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	199	188	206	219	511	195	94	59	25	26	67
2	91	188	191	197	219	442	192	90	52	23	77	49
3	91	181	191	198	219	386	164	94	62	26	89	49
4	93	181	202	204	217	357	135	100	56	20	92	47
5	95	184	303	222	202	322	121	101	56	28	88	37
6	119	186	335	226	200	289	115	92	56	27	84	36
7	155	183	260	223	204	281	124	105	54	27	94	42
8	157	188	238	223	208	292	173	115	54	20	97	43
9	161	189	222	240	214	311	227	123	52	17	82	33
10	199	204	217	235	212	289	224	144	61	15	67	32
11	192	197	213	230	210	270	163	140	64	14	51	39
12	185	191	264	228	212	243	154	134	64	12	56	53
13	183	195	252	233	218	236	136	121	62	11	56	60
14	183	190	243	237	220	244	123	102	68	16	79	69
15	185	231	227	233	217	238	111	102	71	17	133	64
16	189	238	225	232	224	244	110	105	60	22	147	83
17	185	219	223	240	224	256	105	84	52	28	132	99
18	185	196	218	241	222	256	101	73	47	48	120	105
19	181	190	215	240	263	250	105	71	35	29	159	95
20	178	191	212	231	259	230	94	68	27	41	156	86
21	179	189	219	225	241	227	105	63	37	40	147	85
22	182	188	220	220	233	225	100	66	68	28	141	70
23	185	186	213	228	221	216	93	62	50	19	193	86
24	176	187	219	236	219	205	102	56	37	18	180	82
25	198	187	216	228	230	195	105	52	35	15	172	116
26	237	187	214	225	423	187	105	47	37	20	151	125
27	238	186	212	223	395	175	109	44	29	16	146	107
28	222	188	212	222	489	170	106	55	26	12	131	107
29	209	185	214	221	457	166	98	67	27	8.0	99	103
30	210	184	216	220	---	153	104	54	22	13	92	111
31	204	---	213	219	---	144	---	66	---	21	85	---
TOTAL	5330	5788	7007	6986	7291	8010	3899	2690	1480	676.0	3422	2180
MEAN	172	193	226	225	251	258	130	86.8	49.3	21.8	110	72.7
MAX	238	238	335	241	489	511	227	144	71	48	193	125
MIN	83	181	188	197	200	144	93	44	22	8.0	26	32
AC-FT	10570	11480	13900	13860	14460	15890	7730	5340	2940	1340	6790	4320

CAL YR 1975 TOTAL 92081.0 MEAN 252 MAX 1900 MIN 36 AC-FT 182600
WTR YR 1976 TOTAL 54759.0 MEAN 150 MAX 511 MIN 8.0 AC-FT 108600

11517500 SHASTA RIVER NEAR YREKA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955-56, 1958 to current year.
CHEMICAL ANALYSES: Water years 1959 to current year.
WATER TEMPERATURES: Water years 1965 to current year.
SEDIMENT RECORDS: Water years 1955-56, 1958-62.

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

INSTRUMENTATION.--Temperature recorder since June 1965.

REMARKS.--Clock stopped July 11 to Aug. 4; range in temperature, 18.0°C to 27.0°C.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 31.5°C July 15, 16, 1972; minimum, 0.0°C Jan. 30, 31, 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 27.0°C June 18, 19, 28, July 5, and sometime during period July 11 to Aug. 4; minimum, 1.0°C Feb. 6.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
NOV 05...	1655	188	450	8.3	10.5	0	10.5	192	0
JAN 08...	1110	223	517	8.3	7.0	3	10.8	--	--
MAR 11...	1410	276	502	8.4	10.0	5	11.1	--	--
MAY 11...	1115	132	535	8.4	19.0	1	9.7	234	0
JUL 08...	1030	17	672	8.2	22.5	--	9.2	--	--
SEP 03...	0845	46	613	8.2	19.0	2	9.0	--	--

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV 05...	34	1.1	284	0	233	20	--	--	--
JAN 08...	--	--	--	--	--	--	--	--	--
MAR 11...	--	--	--	--	--	--	--	--	--
MAY 11...	40	1.1	314	13	279	22	.09	.60	.25
JUL 08...	--	--	--	--	--	--	--	--	--
SEP 03...	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV 05...	--	400	--	--	--	--	--	--
JAN 08...	--	--	--	--	--	--	--	--
MAR 11...	--	--	--	--	--	--	--	--
MAY 11...	.16	500	0	0	50	0	10	0
JUL 08...	--	--	--	--	--	--	--	--
SEP 03...	--	--	--	--	--	--	--	--

11517500 SHASTA RIVER NEAR YREKA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	13.0	10.0	8.0	8.0	6.0	5.0	3.0	7.0	5.0	5.5	3.5
2	17.0	13.5	11.0	9.0	8.0	7.0	4.0	2.5	7.0	5.0	6.5	4.0
3	16.5	13.0	12.0	10.0	8.5	8.0	5.0	3.5	7.0	5.0	7.0	4.0
4	18.0	13.5	12.0	10.0	8.5	8.0	6.0	4.5	6.0	2.5	8.0	5.0
5	17.5	13.5	11.0	10.0	8.5	8.0	6.5	5.5	3.0	1.5	8.5	5.0
6	17.0	13.5	10.5	9.5	9.0	8.0	7.0	6.0	3.5	1.0	9.0	5.0
7	14.0	11.5	11.5	10.0	9.0	9.0	7.5	6.5	5.0	2.5	8.0	6.0
8	12.5	10.5	10.0	9.0	9.0	8.0	8.0	7.5	6.5	4.0	10.0	7.0
9	10.5	9.5	9.0	8.0	8.0	7.5	7.5	6.5	6.5	4.5	11.0	7.0
10	11.0	9.0	8.5	7.0	7.5	7.0	7.0	5.5	6.5	4.0	11.5	7.5
11	12.5	9.5	8.0	6.0	7.0	6.5	7.0	6.0	6.5	4.0	10.5	7.0
12	13.0	11.0	7.5	6.0	6.5	5.5	6.5	5.5	8.5	6.0	10.0	6.5
13	14.0	11.0	8.0	6.5	5.5	5.0	6.5	5.5	9.0	8.0	9.5	7.0
14	13.0	10.5	9.0	7.5	5.0	4.0	8.0	6.5	8.0	6.5	11.5	7.5
15	13.5	10.5	9.0	8.0	5.0	4.0	8.0	7.5	6.5	6.0	12.5	8.0
16	13.5	10.5	8.0	7.0	6.0	5.0	8.0	7.5	7.5	6.0	12.5	10.0
17	13.0	11.0	7.0	5.5	7.0	6.0	7.5	7.0	8.0	6.0	14.0	9.5
18	13.5	11.5	6.0	4.5	6.0	5.0	7.5	6.5	8.0	6.0	11.5	9.0
19	14.0	11.5	6.0	5.0	5.5	4.5	7.0	5.5	8.0	6.5	9.0	7.5
20	13.5	11.5	7.0	5.5	5.0	4.0	6.0	4.5	8.5	6.0	11.0	7.0
21	13.5	12.0	6.5	5.5	5.0	4.0	6.0	4.5	8.0	6.0	11.5	7.5
22	12.5	10.5	7.0	6.0	6.0	5.0	6.5	4.5	8.5	6.0	11.5	9.0
23	11.0	9.5	7.0	6.5	7.0	6.0	7.5	6.5	8.0	5.5	10.5	8.0
24	11.5	8.5	8.0	7.0	8.0	7.0	8.0	6.0	8.0	5.5	11.5	8.5
25	10.5	9.5	8.0	7.0	8.0	7.5	6.0	5.0	9.0	7.0	11.5	7.5
26	10.0	9.5	8.0	7.0	8.0	7.0	6.0	5.0	9.0	7.5	11.0	8.0
27	10.0	9.0	7.0	6.0	8.0	7.0	6.0	5.0	9.0	7.5	9.5	7.0
28	10.0	8.5	7.0	6.0	8.5	7.5	6.0	4.0	8.0	7.0	13.0	8.0
29	10.5	8.0	6.0	5.0	8.5	8.0	6.0	4.5	8.0	5.5	13.0	7.0
30	10.0	9.5	6.5	5.5	8.0	6.0	6.5	4.5	---	---	14.0	8.5
31	10.0	8.0	---	---	6.0	5.0	6.5	4.5	---	---	10.5	8.0
MONTH	18.0	8.0	12.0	4.5	9.0	4.0	8.0	2.5	9.0	1.0	14.0	3.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	6.5	19.5	15.0	21.0	13.5	22.0	14.0	---	---	26.5	19.5
2	11.5	6.0	19.0	13.5	19.5	13.0	25.0	15.5	---	---	25.5	19.0
3	13.0	8.5	20.5	13.5	19.5	14.5	23.5	17.0	---	---	26.0	19.0
4	15.5	9.0	18.5	14.5	22.0	14.0	26.0	18.5	---	---	26.0	19.5
5	12.5	10.5	19.5	15.0	20.0	15.0	27.0	19.0	25.0	20.0	25.5	20.5
6	14.0	10.0	20.0	13.5	22.5	15.5	25.5	18.5	21.0	19.0	22.5	18.0
7	11.0	9.0	21.5	14.5	21.5	16.5	24.0	18.5	22.0	17.5	22.5	16.0
8	12.5	9.5	22.0	16.5	22.0	15.0	26.5	18.5	24.5	17.0	22.5	16.0
9	13.0	9.0	23.5	17.0	18.5	16.0	25.5	17.0	25.0	18.0	23.5	16.5
10	11.5	9.5	22.5	18.5	20.5	15.5	25.5	17.0	26.0	18.5	23.0	17.0
11	12.0	9.0	22.0	15.5	18.5	15.0	---	---	25.5	19.0	23.5	18.0
12	11.0	8.0	23.0	16.0	22.0	15.0	---	---	26.0	19.0	22.5	16.5
13	14.0	8.0	23.5	17.5	22.0	14.5	---	---	21.5	18.0	22.5	16.5
14	14.5	8.5	22.5	16.5	23.5	15.0	---	---	21.5	17.5	21.5	16.0
15	13.5	9.5	23.0	16.0	24.0	15.5	---	---	18.0	16.0	20.5	15.5
16	13.0	8.5	23.0	17.0	24.5	17.0	---	---	18.0	15.5	19.5	16.5
17	11.0	9.5	22.0	15.0	25.5	17.0	---	---	19.0	16.0	21.5	16.5
18	15.0	9.5	22.5	15.0	27.0	18.0	---	---	21.0	16.0	21.5	16.5
19	16.5	10.5	21.5	15.0	27.0	19.0	---	---	22.5	17.0	22.0	16.5
20	18.5	12.5	21.5	14.0	24.0	19.0	---	---	24.0	17.5	21.0	16.0
21	15.0	12.5	22.5	15.0	23.5	18.0	---	---	25.5	18.5	20.5	15.0
22	16.5	12.5	22.5	15.5	24.5	16.5	---	---	21.0	19.0	20.5	15.5
23	15.5	11.5	23.0	15.5	24.0	16.0	---	---	23.5	18.5	20.5	15.5
24	16.0	12.5	22.5	16.5	26.0	16.5	---	---	24.0	18.5	21.0	15.5
25	15.5	11.5	23.0	15.5	25.0	18.0	---	---	22.0	18.5	20.5	16.0
26	16.5	10.0	24.5	15.5	25.5	15.5	---	---	22.5	17.5	20.0	16.0
27	16.5	11.0	21.5	17.0	26.5	17.0	---	---	23.0	17.0	19.5	16.0
28	17.5	12.5	22.0	14.0	27.0	18.0	---	---	23.5	17.5	20.5	16.5
29	18.0	12.5	20.0	14.0	25.0	18.5	---	---	25.0	18.5	20.5	16.0
30	19.5	13.5	17.5	15.0	22.0	15.5	---	---	25.5	19.0	20.0	16.5
31	---	---	20.5	13.5	---	---	---	---	26.0	19.5	---	---
MONTH	19.5	6.0	24.5	13.5	27.0	13.0	---	---	26.0	15.5	26.5	15.0

11519500 SCOTT RIVER NEAR FORT JONES, CA

LOCATION.--Lat 41°38'27", long 123°00'50", in NE¼NE¼ sec.29, T.44 N., R.10 W., Siskiyou County, on right bank 1.8 mi (2.9 km) upstream from Snow Creek, and 9.0 mi (14.5 km) west of Fort Jones.

DRAINAGE AREA.--653 mi^2 (1,691 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1941 to current year. Monthly discharge only October to December 1941, published in WSP 1315-B.

REVISED RECORDS.--WSP 1445: 1942-43(M), 1946(M), 1948. WSP 1715: 1951-52(M). WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,623.80 ft (799.734 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1966, water-stage recorder 400 ft (122 m) downstream at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records good. Diversions for irrigation of about 30,000 acres (121 km^2) above station.

AVERAGE DISCHARGE.--35 years, 680 ft^3/s (19.26 m^3/s), 492,700 acre-ft/yr (607 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,600 ft^3/s (1,550 m^3/s) Dec. 22, 1964, gage height, 25.34 ft (7.724 m) from floodmarks, site and datum then in use, from rating curve extended above 15,000 ft^3/s (425 m^3/s) on basis of slope-area measurement at 21.40 ft (6.523 m); minimum, 20 ft^3/s (0.57 m^3/s) Sept. 14, 15, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,120 ft^3/s (88.4 m^3/s) Nov. 15 (2030 hrs), gage height, 9.76 ft (2.975 m), no other peak above base of 2,000 ft^3/s (56.6 m^3/s); minimum daily, 53 ft^3/s (1.50 m^3/s) Sept. 8, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	350	329	386	306	1150	540	717	506	143	66	58
2	71	310	378	357	303	951	517	959	450	129	79	58
3	73	308	392	359	298	807	511	933	424	122	66	57
4	73	318	546	353	289	696	511	904	410	112	63	62
5	72	298	1550	376	255	640	526	921	380	107	63	57
6	72	291	1750	386	240	596	530	971	378	103	69	55
7	72	387	1280	367	244	572	531	934	378	101	73	54
8	73	450	1010	415	256	582	1100	1080	366	95	72	53
9	76	368	851	517	259	556	901	1400	359	94	68	55
10	82	375	753	470	252	533	765	1590	351	91	71	56
11	85	380	684	431	245	530	758	1540	348	84	68	56
12	90	327	742	423	245	519	673	1260	349	87	62	56
13	98	306	660	408	251	514	620	1380	361	89	64	57
14	99	314	583	398	285	502	578	1660	361	90	68	56
15	99	1970	534	396	287	484	557	1340	329	90	77	53
16	99	2000	516	396	299	492	539	1150	312	92	86	60
17	99	1120	497	396	372	566	516	1110	306	93	78	64
18	102	790	476	396	366	673	507	979	302	95	83	64
19	103	638	459	392	384	702	487	881	327	87	86	63
20	107	564	436	384	383	642	479	768	342	88	94	67
21	107	501	423	377	354	602	535	707	338	85	96	63
22	107	460	416	373	337	577	548	682	304	81	95	59
23	108	432	403	370	322	566	560	657	274	74	87	58
24	111	397	394	366	309	583	643	659	247	75	75	60
25	149	374	386	350	350	620	793	634	223	75	72	67
26	905	364	389	338	865	569	723	632	216	73	69	77
27	505	362	440	335	1170	543	647	625	199	70	66	79
28	349	343	425	330	1600	521	557	622	187	68	61	79
29	289	325	434	320	1350	498	527	566	164	66	61	77
30	378	311	441	314	---	477	542	516	155	61	59	72
31	450	---	424	307	---	503	---	524	---	55	60	---
TOTAL	5171	15733	19001	11786	12476	18766	18221	29301	9646	2775	2257	1852
MEAN	167	524	613	380	430	605	607	945	322	89.5	72.8	61.7
MAX	905	2000	1750	517	1600	1150	1100	1660	506	143	96	79
MIN	68	291	329	307	240	477	479	516	155	55	59	53
AC-FT	10260	31210	37690	23380	24750	37220	36140	58120	19130	5500	4480	3670

CAL YR 1975 TOTAL 323924 MEAN 887 MAX 6370 MIN 68 AC-FT 642500
WTR YR 1976 TOTAL 146985 MEAN 402 MAX 2000 MIN 53 AC-FT 291500

11519500 SCOTT RIVER NEAR FORT JONES, CALIF.--Continued

PERIOD OF RECORD.--Water years 1955-56, 1959 to current year.
CHEMICAL ANALYSES: Water years 1959 to current year.
SEDIMENT RECORDS: Water years 1955-56.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
NOV									
06...	0915	291	180	7.5	8.0	4	10.6	--	--
JAN									
08...	0840	392	170	7.4	6.5	2	10.3	--	--
MAR									
12...	1040	519	195	7.4	6.5	2	11.4	--	--
MAY									
11...	1415	1560	98	7.4	13.5	10	10.2	49	4
JUL									
07...	1600	97	253	8.0	21.0	1	10.7	--	--
SEP									
02...	1445	58	274	7.8	23.0	1	11.4	--	--

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV									
06...	--	--	--	--	--	--	--	--	--
JAN									
08...	--	--	--	--	--	--	--	--	--
MAR									
12...	--	--	--	--	--	--	--	--	--
MAY									
11...	1.8	.1	55	0	45	1.5	.06	.10	.07
JUL									
07...	--	--	--	--	--	--	--	--	--
SEP									
02...	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV								
06...	--	--	--	--	--	--	--	--
JAN								
08...	--	--	--	--	--	--	--	--
MAR								
12...	--	--	--	--	--	--	--	--
MAY								
11...	.00	0	0	0	1500	0	30	0
JUL								
07...	--	--	--	--	--	--	--	--
SEP								
02...	--	--	--	--	--	--	--	--

11520500 KLAMATH RIVER NEAR SEIAD VALLEY, CA

LOCATION.--Lat 41°51'14", long 123°13'52", in SW¼SW¼ sec.3, T.46 N., R.12 W., Siskiyou County, Klamath National Forest, on left bank 0.4 mi (0.6 km) upstream from Bittenbender Creek, 1.4 mi (2.3 km) downstream from Grider Creek, and 2.2 mi (3.5 km) west of Seiad Valley.

DRAINAGE AREA.--6,940 mi^2 (17,975 km^2), approximately (not including Lost River or Lower Klamath Lake basins).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1912 to September 1925, July 1951 to current year. Monthly discharges only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Altitude of gage is 1,320 ft (402 m) from river-profile map. November 1912 to June 1925, nonrecording gage at site 3.5 mi (5.6 km) upstream at different datum.

REMARKS.--Records good. Flow regulated considerably by reservoirs and powerplants above station. Large diversions above station for irrigation.

AVERAGE DISCHARGE.--38 years, 4,190 ft^3/s (118.7 m^3/s), 3,036,000 acre-ft/yr (3.74 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 165,000 ft^3/s (4,670 m^3/s) Dec. 23, 1964, gage height, 33.75 ft (10.287 m) from floodmarks, from rating curve extended above 49,000 ft^3/s (1,390 m^3/s) on basis of slope-area measurements at gage heights 20.1 ft (6.13 m) and 29.2 ft (8.90 m); minimum daily, 320 ft^3/s (9.06 m^3/s) Nov. 25, 1917.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,300 ft^3/s (292 m^3/s) Dec. 6, gage height, 9.09 ft (2.771 m); minimum daily, 905 ft^3/s (25.6 m^3/s) July 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2140	4070	4980	4250	4080	6620	4140	3170	2200	1200	1300	1500
2	2130	3990	5110	4130	4060	5990	4100	3460	1940	1170	1370	1590
3	2140	3990	4910	4140	4060	5370	3950	3470	1810	1160	1370	1580
4	2150	3980	5850	4190	4070	4960	3690	3400	1780	1140	1370	1590
5	2140	3940	9370	4380	3900	4550	3720	3370	1730	1130	1370	1580
6	2170	3940	9890	4350	3850	4340	3610	3430	1720	1120	1390	1560
7	2220	4170	8470	4260	3870	4250	3270	3440	1710	1100	1390	1560
8	2230	4210	7800	4560	3950	4230	3770	3590	1700	1100	1380	1570
9	2240	4090	7440	5100	4010	4220	3810	3910	1680	1090	1360	1570
10	2370	4280	7180	4730	3790	4230	3650	4230	1680	1070	1320	1550
11	2350	4220	6560	4580	3480	4210	3550	3930	1690	1070	1310	1560
12	2310	4070	6350	4540	3410	3970	3430	3530	1680	1090	1300	1560
13	2300	4030	5590	4560	3470	3870	3330	3630	1670	1060	1300	1580
14	2790	4060	5070	4490	3540	3740	3240	4030	1650	1040	1360	1580
15	3180	7070	4950	4490	3510	3700	3210	3620	1620	1040	1520	1580
16	3210	7260	4870	4480	3750	3970	3170	3330	1580	1030	1580	1690
17	3200	5400	4840	4510	3930	4300	3130	3210	1550	1090	1550	1730
18	3230	4800	4560	4510	3900	4540	3060	3010	1530	1120	1490	1670
19	3200	4480	4380	4390	3990	4580	2960	2860	1530	1070	1490	1660
20	3200	4360	4220	4360	3940	4400	2740	2700	1530	1040	1510	1640
21	3160	4200	4150	4310	3830	4170	2850	2600	1520	1040	1550	1710
22	3390	4110	4160	4260	3780	4200	2880	2550	1510	1020	1570	1860
23	3480	4070	4200	4230	3710	4280	2890	2500	1460	996	1610	1870
24	3480	3990	4250	4260	3620	4410	3050	2480	1400	983	1610	1860
25	3890	4310	4200	4220	3810	4370	3230	2450	1350	977	1580	1880
26	4910	4430	4250	4200	6760	4240	3120	2400	1320	960	1560	1920
27	4470	4390	4320	4200	7140	4130	3030	2390	1290	940	1530	1930
28	4070	4490	4350	4160	8070	3990	2940	2370	1260	930	1520	1910
29	3980	4450	4440	4110	7250	3960	2900	2310	1220	920	1480	1910
30	4270	4480	4440	4080	---	4020	2930	2260	1200	910	1460	1910
31	4250	---	4370	4100	---	4060	---	2280	---	905	1460	---
TOTAL	94250	133330	169520	135130	124530	135870	99350	95910	47510	32511	44960	50660
MEAN	3040	4444	5468	4359	4294	4383	3312	3094	1584	1049	1450	1689
MAX	4910	7260	9890	5100	8070	6620	4140	4230	2200	1200	1610	1930
MIN	2130	3940	4150	4080	3410	3700	2740	2260	1200	905	1300	1500
AC-FT	186900	264500	336200	268000	247000	269500	197100	190200	94240	64490	89180	100500

CAL YR 1975 TOTAL 1877580 MEAN 5144 MAX 22600 MIN 1300 AC-FT 3724000
WTR YR 1976 TOTAL 1163531 MEAN 3179 MAX 9890 MIN 905 AC-FT 2308000

11520500 KLAMATH RIVER NEAR SEIAD VALLEY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955-56, 1959 to current year.
CHEMICAL ANALYSES: Water years 1959-66.
WATER TEMPERATURES: Water years 1964 to current year.
SEDIMENT RECORDS: Water years 1955-56.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1963 to current year.

INSTRUMENTATION.--Temperature recorder since October 1963.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 29.5°C July 26, 1970; minimum (water years 1964, 1967-76), 0.5°C on several days in 1967, 1968, and 1971-73.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 27.0°C July 26; minimum, 2.5°C Feb. 6, 7.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.5	16.5	10.5	10.5	6.5	6.0	---	---	4.5	4.5	6.0	5.0
2	18.0	16.5	11.5	10.5	6.5	6.0	---	---	5.0	4.5	5.0	4.5
3	18.0	16.0	11.5	11.5	6.5	6.0	---	---	5.0	4.5	5.0	4.5
4	19.0	16.5	11.5	11.0	6.0	5.5	---	---	5.0	4.5	5.5	4.5
5	18.5	16.5	11.0	10.0	6.0	6.0	---	---	4.5	3.0	6.0	5.0
6	17.5	15.5	10.0	10.0	6.0	6.0	---	---	3.0	2.5	6.0	5.0
7	15.5	15.0	10.5	10.0	6.0	6.0	6.0	5.0	3.0	2.5	6.5	5.0
8	15.0	14.0	10.0	9.0	---	---	5.0	4.5	4.0	3.0	5.5	5.5
9	14.5	13.5	9.0	8.5	---	---	5.5	5.0	4.5	3.5	7.5	5.5
10	13.5	13.0	8.5	8.0	---	---	5.0	4.5	4.5	4.0	7.0	6.5
11	15.0	13.5	8.5	8.0	---	---	4.5	4.0	4.5	4.0	7.5	6.5
12	15.5	14.0	8.0	8.0	---	---	4.5	4.0	4.5	3.5	7.0	6.5
13	15.5	14.0	8.0	7.5	---	---	4.5	4.5	6.0	4.5	7.0	6.0
14	15.0	13.5	8.5	7.5	---	---	4.5	4.0	6.0	5.5	8.0	6.0
15	15.0	14.0	8.5	8.0	---	---	5.0	4.5	5.5	5.0	9.0	7.0
16	15.0	14.0	8.0	7.0	---	---	5.5	5.0	5.0	5.0	10.0	8.0
17	14.5	14.0	7.0	6.5	---	---	5.0	4.5	6.0	5.0	10.5	8.5
18	15.0	14.0	6.5	6.0	---	---	5.0	5.0	6.0	5.5	9.5	7.0
19	14.5	13.5	6.5	5.5	---	---	5.0	4.5	5.5	5.0	7.5	6.5
20	14.5	14.0	7.0	6.5	---	---	4.5	4.0	5.5	4.5	8.5	6.5
21	14.0	13.0	7.0	6.5	---	---	4.0	3.5	5.5	5.0	9.5	8.0
22	13.0	12.0	6.5	6.0	---	---	4.0	3.5	5.5	5.0	9.0	8.0
23	12.5	11.5	7.0	6.5	---	---	4.0	3.5	5.5	4.5	8.5	7.0
24	12.0	11.5	7.0	6.5	---	---	5.0	4.0	5.5	5.0	8.0	7.5
25	12.0	11.5	6.5	6.5	---	---	5.0	4.5	5.5	5.0	9.0	7.5
26	11.5	10.5	6.5	6.0	---	---	4.5	4.0	6.0	5.5	8.5	7.5
27	10.5	10.0	6.5	6.0	---	---	4.5	3.5	6.5	6.0	8.0	7.5
28	11.0	10.0	6.0	5.0	---	---	4.5	4.0	6.5	6.0	9.0	7.5
29	11.0	11.0	5.5	5.0	---	---	4.5	4.0	6.0	5.5	9.5	7.5
30	11.0	10.5	6.0	5.5	---	---	4.5	4.0	---	---	10.5	8.5
31	10.5	10.0	---	---	---	---	5.0	4.0	---	---	10.0	8.0
MONTH	19.0	10.0	11.5	5.0	---	---	6.0	3.5	6.5	2.5	10.5	4.5

11520500 KLAMATH RIVER NEAR SEIAD VALLEY, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	6.0	15.5	12.5	16.0	12.0	19.0	16.5	23.0	22.0	24.0	20.5
2	9.0	7.0	14.0	11.5	16.0	12.5	20.5	17.0	23.0	21.0	23.5	20.5
3	10.0	8.0	15.0	11.0	17.0	13.5	21.5	19.0	22.5	21.0	23.0	20.0
4	11.0	9.0	14.5	12.5	17.0	13.5	22.0	19.5	22.0	20.0	23.0	20.0
5	11.0	9.0	15.0	12.5	16.0	15.0	23.5	20.5	23.0	20.0	22.5	20.0
6	11.0	9.0	15.0	12.0	17.0	14.5	22.5	21.0	21.5	19.5	22.0	20.0
7	11.0	9.0	16.5	12.5	18.0	15.5	22.0	20.5	21.0	18.5	20.5	15.5
8	10.0	8.5	17.0	14.0	18.0	15.5	23.0	20.0	22.5	19.0	20.5	15.5
9	10.0	8.5	17.0	14.0	16.0	15.0	23.5	20.5	23.5	19.5	21.0	18.0
10	10.0	8.5	16.0	14.0	17.0	14.5	23.5	20.5	24.0	20.0	21.5	18.5
11	10.5	8.0	15.0	12.0	16.5	15.5	22.0	21.0	24.0	21.0	21.0	19.0
12	10.5	8.5	17.0	12.5	17.5	15.0	23.5	20.0	24.5	21.0	20.0	18.0
13	11.0	8.0	18.0	14.0	18.5	15.0	24.0	20.5	22.0	19.5	20.0	17.5
14	12.0	8.5	16.5	14.0	19.5	15.5	24.5	21.0	20.0	19.0	20.0	18.0
15	11.0	8.0	16.0	13.0	20.0	17.0	25.5	22.0	19.0	18.0	19.5	17.5
16	11.0	8.0	16.5	13.5	21.0	16.0	26.0	23.0	18.5	16.5	19.0	18.5
17	10.0	7.5	15.5	12.5	21.5	18.0	25.0	23.0	18.0	17.0	20.0	17.5
18	11.5	8.0	16.0	12.5	22.0	19.0	25.0	22.0	19.5	16.5	20.5	18.0
19	13.0	10.0	16.0	13.0	22.5	19.5	25.0	22.5	21.0	17.5	20.5	18.0
20	14.5	11.5	16.0	13.0	21.5	20.0	24.5	21.5	22.0	18.5	20.5	18.0
21	13.0	11.0	17.0	13.5	20.5	18.5	24.0	21.0	23.5	20.0	19.5	17.5
22	13.5	11.0	17.0	14.0	20.5	17.5	24.5	21.5	23.0	21.0	20.0	17.0
23	12.5	11.0	17.0	14.0	21.0	17.5	25.0	22.5	22.0	19.0	20.0	17.5
24	13.5	11.0	16.5	15.0	21.5	18.5	25.5	22.0	23.0	19.5	20.0	17.5
25	12.5	10.0	17.0	14.0	22.0	19.5	26.5	23.0	22.5	20.0	20.0	17.5
26	12.5	9.5	18.5	15.0	21.5	18.0	27.0	20.5	21.0	18.0	20.0	17.5
27	14.0	10.0	18.0	16.0	22.0	18.5	26.5	23.5	21.5	18.0	19.5	17.5
28	13.0	10.5	16.5	14.0	22.5	20.0	26.5	23.5	22.5	19.0	20.0	17.5
29	13.5	10.0	15.5	13.5	22.0	16.0	24.5	22.5	23.0	20.0	20.0	17.5
30	15.0	11.5	15.0	14.0	19.5	17.5	24.0	21.0	23.5	20.0	20.5	18.0
31	---	---	15.0	12.5	---	---	24.5	21.5	23.5	20.5	---	---
MONTH	15.0	6.0	18.5	11.0	22.5	12.0	27.0	16.5	24.5	16.5	24.0	15.5

11521500 INDIAN CREEK NEAR HAPPY CAMP, CA

LOCATION.--Lat 41°50'07", long 123°22'55", in SW¼SW¼ sec.26, T.17 N., R.7 E., Siskiyou County, on left bank 0.2 mi (0.3 km) upstream from Slater Creek, 3.0 mi (4.8 km) north of Happy Camp, and 3.5 mi (5.6 km) upstream from mouth.

DRAINAGE AREA.--120 mi^2 (311 km^2).

PERIOD OF RECORD.--September 1911 to September 1921 (fragmentary), December 1956 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1635: 1957-58.

GAGE.--Water-stage recorder. 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.

REMARKS.--Records good. Small diversions above station for irrigation.

AVERAGE DISCHARGE.--22 years (water years 1912-14, 1958-76), 449 ft^3/s (12.72 m^3/s), 325,300 acre-ft/yr (401 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,000 ft^3/s (1,100 m^3/s) Dec. 22, 1964, gage height, 24.3 ft (7.41 m) from floodmarks, present site and datum, from rating curve extended above 6,000 ft^3/s (170 m^3/s) on basis of slope-area measurement at gage height 29.0 ft (8.84 m), previous site and datum; minimum observed, 20 ft^3/s (0.57 m^3/s) Aug. 19 to Sept. 6, 1914.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 21, 1955, reached a stage of 29.0 ft (8.84 m), at 1956-69 site and datum, from floodmarks, discharge, 23,000 ft^3/s (651 m^3/s) on basis of slope-area measurement of peak flows.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft^3/s (56.6 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Nov. 15	1030	*3180	90	8.92	2.719
Dec. 4	1715	2990	84.7	8.76	2.670
Feb. 26	0915	2010	56.9	7.91	2.411

Minimum daily discharge, 43 ft^3/s (1.22 m^3/s) Oct. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	260	499	290	223	724	425	549	198	107	66	52
2	44	267	455	268	217	604	399	542	190	103	69	51
3	43	307	381	256	212	516	384	477	187	102	82	50
4	44	255	1510	252	207	458	390	463	178	100	92	49
5	44	215	1510	400	195	417	430	458	175	99	78	48
6	47	210	1430	355	192	387	438	450	172	97	82	47
7	51	541	895	354	189	369	477	472	172	96	77	46
8	51	377	670	979	186	351	568	576	172	95	70	46
9	63	277	545	849	182	344	506	605	178	93	65	45
10	110	392	463	617	176	359	477	570	172	90	62	45
11	85	298	420	566	171	373	449	480	169	104	59	44
12	66	239	390	535	169	354	438	445	163	100	58	44
13	59	214	351	489	199	342	410	517	159	88	60	45
14	56	394	316	480	214	340	394	498	150	84	79	47
15	54	2330	294	499	198	348	398	465	148	81	137	47
16	53	927	287	495	447	377	374	432	149	80	169	70
17	55	574	276	491	494	439	362	410	147	89	119	67
18	67	433	261	468	509	477	355	390	144	86	100	55
19	59	358	249	433	439	431	348	360	139	79	88	52
20	55	322	236	398	374	388	376	320	136	76	79	50
21	56	279	237	369	344	372	409	300	132	72	73	49
22	67	262	247	347	323	403	406	275	127	70	70	48
23	64	245	247	334	313	398	420	265	121	69	68	47
24	59	231	250	318	310	553	496	260	120	67	65	47
25	526	227	251	297	504	539	475	255	118	65	62	46
26	486	246	359	281	1570	481	421	250	113	63	61	46
27	266	268	423	267	1360	439	397	248	110	61	59	45
28	185	242	386	256	1310	415	389	242	107	60	57	46
29	205	221	379	246	929	395	383	232	106	60	56	45
30	792	234	365	236	---	409	424	212	107	58	54	44
31	391	---	323	228	---	458	---	208	---	56	53	---
TOTAL	4247	11645	14905	12653	12156	13260	12618	12226	4459	2550	2369	1463
MEAN	137	388	481	408	419	428	421	394	149	82.3	76.4	48.8
MAX	792	2330	1510	979	1570	724	568	605	198	107	169	70
MIN	43	210	236	228	169	340	348	208	106	56	53	44
AC-FT	8420	23100	29560	25100	24110	26300	25030	24250	8840	5060	4700	2900

CAL YR 1975 TOTAL 172004 MEAN 471 MAX 2330 MIN 43 AC-FT 341200
WTR YR 1976 TOTAL 104551 MEAN 286 MAX 2330 MIN 43 AC-FT 207400

11522500 SALMON RIVER AT SOMES BAR, CA

LOCATION.--Lat 41°22'40", long 123°28'35", in NE¼ sec.3, T.11 N., R.6 E., Siskiyou County, Klamath National Forest, on left bank at Somes Bar, 1.0 mi (1.6 km) upstream from mouth.

DRAINAGE AREA.--751 mi^2 (1,945 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1911 to September 1915, October 1927 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1285: 1912, 1914, 1915(M), 1946(M), 1948(M). WDR CA-72-1: 1971(P).

GAGE.--Water-stage recorder. Datum of gage is 482.97 ft (147.209 m) above mean sea level. Prior to October 1927, nonrecording gage at different datum, October 1927 to Dec. 22, 1964, water-stage recorder at site 0.5 mi (0.8 km) upstream at datum 6.54 ft (1.993 m) higher.

REMARKS.--Records fair. No storage or large diversion above station.

AVERAGE DISCHARGE.--53 years, 1,828 ft^3/s (51.77 m^3/s), 1,324,000 acre-ft/yr (1.63 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 133,000 ft^3/s (3,770 m^3/s) Dec. 22, 1964, gage height, 46.6 ft (14.20 m) present site and datum, from floodmarks, from rating curve extended above 33,000 ft^3/s (935 m^3/s); minimum, 70 ft^3/s (1.98 m^3/s) Aug. 25, Sept. 4, 5, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,500 ft^3/s (29 m^3/s) Nov. 15 (1400 hrs), gage height, 10.39 ft (3.167 m), peak above base of 10,000 ft^3/s (283 m^3/s); minimum daily, 172 ft^3/s (4.87 m^3/s) Oct. 3-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	176	1160	1470	1100	1010	3800	2090	2500	1470	623	266	261
2	176	1060	1590	1090	1000	3300	2000	3800	1400	576	292	252
3	172	1130	1400	1080	990	3000	1950	2690	1330	556	338	243
4	172	1080	3280	1070	980	2680	1930	2610	1270	556	364	239
5	172	948	6560	1700	955	2360	2110	2590	1260	556	392	234
6	188	983	6230	1400	940	2180	2110	2600	1260	550	459	226
7	226	2370	4220	1400	910	2090	2160	2700	1280	518	452	226
8	226	1920	3230	4000	890	2000	2380	3050	1240	506	377	221
9	226	1380	2730	3500	880	1950	2190	3210	1210	493	325	217
10	412	1760	2390	2300	870	1980	2160	3350	1150	475	319	217
11	413	1460	2170	2100	860	2060	2090	3000	1130	469	304	213
12	311	1220	2200	2000	865	1990	1990	2500	1170	487	290	204
13	268	1170	1930	1820	870	1940	1900	2850	1210	457	280	204
14	251	1290	1720	1830	1000	1890	1830	3050	1100	433	396	204
15	243	7880	1600	1910	940	1860	1840	2600	1090	410	849	204
16	238	4990	1530	1910	1500	1930	1790	2400	1190	392	1080	248
17	236	3060	1450	1900	2100	2310	1750	2200	1170	421	779	315
18	314	2300	1370	1820	2400	2680	1730	2100	1170	517	735	261
19	302	1870	1310	1730	1950	2410	1720	2050	1230	422	642	252
20	271	1650	1230	1680	1650	2170	1710	1900	1140	374	498	252
21	258	1420	1200	1590	1520	2080	1800	1820	999	355	438	234
22	301	1310	1220	1500	1410	2120	1920	1780	916	338	391	226
23	329	1230	1140	1420	1370	2060	1900	1730	844	322	407	217
24	294	1110	1100	1350	1340	2320	1980	1700	811	311	406	217
25	1640	1070	1070	1270	2800	2350	2200	1680	819	304	360	208
26	3880	1040	1140	1200	6600	2240	2100	1640	771	293	334	204
27	1750	1070	1300	1140	5400	2140	1900	1610	710	282	322	200
28	1210	991	1210	1080	4850	2060	1800	1600	673	275	303	196
29	891	914	1280	1050	4600	1950	1770	1580	659	264	290	213
30	2070	911	1320	1030	---	1960	1890	1550	637	275	280	221
31	1620	---	1200	1020	---	2180	---	1500	---	261	266	---
TOTAL	19236	51747	62790	50990	53450	70040	58690	71940	32309	13071	13234	6829
MEAN	621	1725	2025	1645	1843	2259	1956	2321	1077	422	427	228
MAX	3880	7880	6560	4000	6600	3800	2380	3800	1470	623	1080	315
MIN	172	911	1070	1020	860	1860	1710	1500	637	261	266	196
AC-FT	38150	102600	124500	101100	106000	138900	116400	142700	64080	25930	26250	13550

CAL YR 1975 TOTAL 862783 MEAN 2364 MAX 13800 MIN 172 AC-FT 1711000
WTR YR 1976 TOTAL 504326 MEAN 1378 MAX 7880 MIN 172 AC-FT 1000000

NOTE.--No gage-height record Jan. 2 to Mar. 2.

11522500 SALMON RIVER AT SOMES BAR, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959 to current year.
CHEMICAL ANALYSES: Water years 1959-64.
WATER TEMPERATURES: Water years 1966 to current year.
SEDIMENT RECORDS: Water years 1955-56.

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

INSTRUMENTATION.--Temperature recorder since October 1965.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1966, 1968-73, 1975-76), 32.0°C Sept. 4, 5, 1966; minimum (water years 1966-74, 1976), 0.0°C on several days in 1967 and 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 25.5°C July 26; minimum, 1.0°C Feb. 6.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	14.5	---	---	---	---	3.5	2.5	5.5	4.5	6.0	5.5
2	16.5	14.5	---	---	---	---	2.5	2.0	5.5	4.5	6.0	5.0
3	17.0	14.0	---	---	7.0	6.0	3.5	2.5	5.0	4.5	6.0	5.0
4	17.5	14.0	9.0	9.0	7.0	6.0	4.5	3.5	5.0	3.5	6.0	4.5
5	17.0	13.5	9.0	8.0	7.5	7.0	5.5	4.5	3.5	2.0	6.0	5.0
6	15.0	13.5	8.0	6.5	8.0	7.5	5.5	5.0	2.0	1.0	6.5	5.0
7	15.0	12.5	6.5	6.0	8.0	7.5	5.5	5.0	3.0	2.0	6.5	5.5
8	14.5	12.5	6.5	6.5	7.5	6.5	6.0	5.5	3.5	2.5	7.5	6.0
9	14.0	12.0	---	---	7.0	6.5	6.0	5.5	4.0	3.5	7.5	6.0
10	13.0	11.5	---	---	6.5	6.5	5.5	5.0	3.5	3.0	7.5	6.0
11	14.0	12.0	---	---	6.5	6.0	6.0	5.5	4.0	2.5	7.5	6.0
12	14.5	11.5	---	---	6.0	5.5	6.0	6.0	6.0	4.0	7.0	5.5
13	15.0	12.0	---	---	5.5	5.0	6.0	5.5	6.0	6.0	7.0	6.0
14	14.5	11.5	---	---	5.0	3.5	7.0	6.0	6.0	5.5	8.5	6.5
15	14.5	11.0	---	---	4.5	3.5	7.0	6.5	5.5	5.0	8.5	7.0
16	14.0	11.0	---	---	5.0	4.5	7.0	6.5	6.5	5.5	9.0	8.0
17	13.5	11.5	---	---	5.0	4.5	6.5	6.0	6.5	6.0	9.5	8.5
18	14.0	12.0	---	---	4.5	4.0	6.0	5.5	6.5	5.5	9.5	7.0
19	14.0	11.0	---	---	4.0	3.5	5.5	4.5	6.0	5.0	7.0	5.0
20	14.0	11.5	---	---	4.0	3.5	5.0	4.5	5.5	5.0	7.0	5.0
21	13.5	12.0	---	---	4.0	3.5	5.0	4.0	5.5	5.0	7.5	6.0
22	13.0	11.0	---	---	5.5	4.5	5.0	4.5	6.5	5.5	7.5	6.5
23	11.5	9.5	---	---	6.0	5.5	6.0	5.0	6.5	6.0	7.0	6.5
24	11.0	9.0	---	---	6.5	6.0	5.5	5.0	6.5	6.0	7.0	6.0
25	---	---	---	---	6.5	6.0	5.0	4.0	6.5	6.0	7.0	5.5
26	---	---	---	---	7.0	6.0	4.5	3.5	7.0	6.5	7.0	6.0
27	---	---	---	---	7.0	6.5	4.5	4.0	7.5	6.5	6.5	5.5
28	---	---	---	---	7.0	6.5	4.5	4.0	7.5	6.0	8.0	6.0
29	---	---	---	---	7.5	7.0	4.5	4.0	7.0	5.5	8.5	6.5
30	---	---	---	---	7.0	5.5	5.0	4.5	---	---	9.5	7.0
31	---	---	---	---	5.5	3.5	5.0	4.0	---	---	9.5	7.0
MONTH	---	---	---	---	8.0	3.5	7.0	2.0	7.5	1.0	9.5	4.5

11522500 SALMON RIVER AT SOMES BAR, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	5.5	11.5	9.5	12.5	10.5	17.5	14.0	22.5	20.0	22.5	18.0
2	7.5	5.5	10.5	8.5	12.5	10.5	---	---	23.0	19.5	22.5	17.5
3	8.0	6.5	11.0	8.5	13.5	11.0	---	---	22.5	19.5	22.5	18.0
4	9.5	7.0	11.0	9.0	14.0	11.5	---	---	21.0	19.0	22.5	18.0
5	9.5	8.5	11.5	9.0	14.0	12.0	---	---	21.0	19.0	22.0	18.5
6	9.5	8.0	11.0	8.5	14.5	12.0	20.0	18.5	20.5	18.0	21.5	17.5
7	9.5	8.0	12.5	9.5	14.0	12.5	20.0	18.0	21.0	17.5	20.5	15.0
8	8.5	7.5	13.0	10.0	14.5	12.0	21.5	18.5	22.0	18.5	20.5	15.5
9	8.0	6.5	12.5	9.5	14.0	12.5	22.0	19.0	23.0	18.5	21.0	15.5
10	7.5	7.0	12.0	9.5	14.5	11.5	21.5	17.5	23.5	19.0	20.5	16.0
11	8.0	6.5	11.5	8.5	14.0	13.0	20.0	17.5	23.5	19.0	20.5	16.5
12	8.0	6.5	13.0	9.5	15.0	12.5	21.5	18.0	23.0	18.5	19.5	15.5
13	9.0	6.5	13.5	10.5	15.5	13.0	22.0	18.0	20.0	17.5	20.0	14.5
14	9.0	7.0	13.0	10.0	16.0	13.0	23.0	19.0	18.5	16.5	20.0	15.5
15	9.0	7.5	12.5	9.5	17.0	14.5	23.5	19.5	16.5	14.5	20.0	15.0
16	8.0	6.0	12.5	10.5	18.0	15.0	23.5	20.5	15.5	13.5	18.0	16.5
17	8.0	7.0	12.0	9.5	18.5	15.5	23.5	20.5	15.0	14.5	19.5	16.0
18	9.5	7.0	12.0	9.5	19.0	16.5	23.0	20.0	16.0	14.0	20.0	16.5
19	10.5	8.0	12.0	10.0	19.0	17.0	22.5	19.0	17.0	14.5	20.0	16.0
20	11.5	9.5	12.0	9.5	18.5	16.5	22.5	18.5	19.0	15.5	19.5	16.5
21	11.0	8.5	13.0	10.5	18.0	15.5	22.5	17.5	20.5	16.5	19.0	15.5
22	10.5	8.5	13.0	11.0	18.0	15.5	22.5	18.0	20.5	17.5	19.0	14.5
23	10.0	8.5	13.0	10.5	18.5	15.5	23.0	19.5	20.5	17.0	19.0	14.0
24	10.5	8.5	12.5	11.0	19.0	16.5	24.0	19.5	21.0	17.5	19.0	14.5
25	9.5	7.0	14.0	11.5	19.5	17.0	24.5	20.5	21.0	17.5	19.0	14.5
26	8.5	6.5	14.5	12.0	19.0	16.0	25.5	21.5	20.0	15.5	19.0	13.5
27	9.5	7.0	14.5	12.5	19.5	16.0	25.0	21.0	20.5	15.5	17.5	15.0
28	9.5	8.0	13.0	11.0	19.5	16.5	25.0	21.0	21.0	17.0	18.5	15.0
29	10.5	7.5	12.5	10.5	19.5	17.5	23.0	20.5	21.5	17.5	19.0	15.5
30	12.0	9.0	11.0	10.5	17.5	15.0	24.0	19.0	22.0	17.5	19.0	15.5
31	---	---	12.5	10.0	---	---	24.0	19.0	22.5	18.0	---	---
MONTH	12.0	5.5	14.5	8.5	19.5	10.5	25.5	14.0	23.5	13.5	22.5	13.5

11523000 KLAMATH RIVER AT ORLEANS, CA

LOCATION.--Lat 41°18'13", long 123°32'00", in SW¼NE¼ sec.31, T.11 N., R.6 E., Humboldt County, Six Rivers National Forest on right bank at Orleans, 25 ft (8 m) upstream from highway bridge, and 0.2 mi (0.3 km) downstream from Cheenitch Creek.

DRAINAGE AREA.--8,475 mi^2 (21,950 km^2), not including Lost River or Lower Klamath Lake basins.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1927 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1965, published as "at Somesbar."

REVISED RECORDS.--WSP 1565: 1935(M), 1949.

GAGE.--Water-stage recorder. Datum of gage is 355.98 ft (108.503 m) above mean sea level. Prior to Oct. 1, 1965, at site 6.7 mi (10.8 km) upstream at datum 90.68 ft (27.639 m) higher.

REMARKS.--Records good. Flow considerably regulated by reservoirs and powerplants above station. Large diversions above station for irrigation.

AVERAGE DISCHARGE.--49 years, 8,259 ft^3/s (233.9 m^3/s), 5,984,000 acre-ft/yr (7.38 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 307,000 ft^3/s (8,690 m^3/s) Dec. 22, 1964, gage height, 76.5 ft (23.32 m) from floodmarks, site and datum then in use, from rating curve extended above 80,000 ft^3/s (2,270 m^3/s) by slope-conveyance study; minimum daily, 320 ft^3/s (9.06 m^3/s) Aug. 25, Sept. 1, 1951.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 35,100 ft^3/s (994 m^3/s) Nov. 15, gage height, 14.24 ft (4.340 m), no peak above base of 40,000 ft^3/s (1,130 m^3/s); minimum daily, 1,650 ft^3/s (46.7 m^3/s) July 29, 31, Aug. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2620	7090	9260	7440	6510	19600	9020	8660	4950	2320	1650	2240
2	2610	6700	9840	7280	6420	16400	8690	9720	4700	2270	1860	2300
3	2620	6940	8750	7220	6330	14100	8530	9130	4350	2210	2020	2320
4	2630	6670	13900	7220	6280	12000	8200	9070	4120	2190	2070	2310
5	2640	6300	25900	8160	6050	10500	8390	8900	4010	2160	2040	2300
6	2690	6260	26400	8050	5950	9640	8510	8960	3900	2130	2080	2280
7	2830	9280	20400	7820	5960	9090	8190	8950	3860	2090	2080	2270
8	2860	8580	16600	11600	5940	8810	9010	10300	3800	2070	2030	2270
9	2880	7240	14500	13100	5960	8540	9070	11600	3710	2040	1970	2270
10	3330	8770	12600	11000	5900	8470	8590	11800	3640	2000	1910	2260
11	3260	7910	12400	10000	5550	8520	8340	10800	3570	2000	1860	2250
12	3050	7110	12400	9970	5400	8220	8080	9310	3560	2060	1840	2240
13	2970	6850	11000	9520	5570	7910	7820	10200	3550	1990	1830	2260
14	2970	7140	10100	9310	5960	7720	7510	10800	3420	1930	1970	2280
15	3450	26000	9300	9480	5780	7540	7430	9170	3360	1900	2710	2280
16	3530	20500	8450	9470	8370	7710	7290	8270	3370	1870	3560	2340
17	3560	15000	8300	9470	9300	8840	7170	7760	3300	1890	3090	2520
18	3740	11000	7800	9210	9300	10000	7170	7260	3260	2000	2910	2370
19	3690	9600	7400	8750	8860	9800	7100	7070	3260	1920	2730	2330
20	3600	8500	7100	8260	8100	9070	7120	6660	3190	1850	2590	2340
21	3590	7910	6950	7900	7540	8720	7340	6350	3090	1810	2510	2270
22	3730	7460	6850	7630	7280	8590	7350	6230	2990	1800	2500	2330
23	3960	7320	6850	7420	7130	8590	7450	6120	2890	1770	2500	2380
24	3910	7130	6850	7350	7030	9150	7950	5990	2790	1740	2520	2390
25	6540	7070	6600	7250	9020	9200	8500	5820	2720	1720	2460	2380
26	12600	7250	7000	7140	21900	9000	7970	5700	2630	1700	2420	2400
27	8910	7300	7300	7060	25300	8700	7530	5790	2550	1680	2380	2410
28	7260	7210	7200	6970	27400	8400	7370	5610	2460	1670	2360	2410
29	6300	7090	7200	6850	23300	8350	7240	5320	2400	1650	2320	2410
30	9900	7070	7200	6700	---	8650	7360	5150	2340	1660	2280	2410
31	8480	---	7500	6580	---	9210	---	5050	---	1650	2250	---
TOTAL	136710	266250	329900	261180	269390	299040	237290	247520	101740	59740	71300	69820
MEAN	4410	8875	10640	8425	9289	9646	7910	7985	3391	1927	2300	2327
MAX	12600	26000	26400	13100	27400	19600	9070	11800	4950	2320	3560	2520
MIN	2610	6260	6600	6580	5400	7540	7100	5050	2340	1650	1650	2240
AC-FT	271200	528100	654400	518100	534300	593100	470700	491000	201800	118500	141400	138500

CAL YR 1975 TOTAL 3878980 MEAN 10630 MAX 59200 MIN 2240 AC-FT 7694000
WTR YR 1976 TOTAL 2349880 MEAN 6420 MAX 27400 MIN 1650 AC-FT 4661000

11523000 KLAMATH RIVER AT ORLEANS, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.
CHEMICAL ANALYSES: Water years 1951 to current year.
WATER TEMPERATURES: Water years 1966 to current year.
SEDIMENT RECORDS: Water years 1955-59, 1967 to current year.
Prior to October 1966, published as "at Somesbar."

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1965 to current year.
SEDIMENT RECORDS: January 1967 to current year.

INSTRUMENTATION.--Temperature recorder since October 1965.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1966-69, 1972-74, 1976), 29.5°C July 27, 1973; minimum (water years 1966, 1968-76), 0.0°C Dec. 22, 23, 1968, Jan. 9-11, 1974.
SEDIMENT CONCENTRATIONS (water years 1968-76): Maximum daily mean, 4,690 mg/L Jan. 16, 1974; minimum daily mean, 1 mg/L Aug. 25-27, 1972.
SEDIMENT DISCHARGE (water years 1968-76): Maximum daily, 3,040,000 tons (2,760,000 tonnes) Jan. 16, 1974; minimum daily, 4.7 tons (4.3 tonnes) Aug. 27, 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 27.0°C July 27, 28; minimum, 3.5°C on several days during January and February.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 355 mg/L Nov. 15; minimum daily mean, 4 mg/L June 27, Sept. 24-26.
SEDIMENT DISCHARGE: Maximum daily, 28,600 tons (25,900 tonnes) Nov. 15; minimum daily, 26 tons (24 tonnes) Sept. 24-26.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT 06...	1030	2690	224	8.2	16.5	1	9.7
NOV 03...	1155	7000	172	7.8	11.0	5	10.9
DEC 01...	1140	9560	145	7.6	7.0	6	11.7
JAN 05...	1305	8600	157	7.6	6.0	8	12.8
FEB 02...	1150	6420	169	8.3	7.0	4	13.3
MAR 01...	1150	19500	135	7.9	7.0	15	12.1
APR 05...	1145	8510	156	8.0	11.0	2	11.1
MAY 03...	1100	9210	118	7.8	13.0	2	11.0
JUN 07...	1015	3880	139	7.8	15.0	1	10.5
JUL 12...	1100	2060	160	7.8	22.0	2	10.0
AUG 02...	1240	1950	170	8.0	22.0	0	10.1
SEP 13...	1100	2270	212	8.0	20.0	2	10.4

DATE	TIME	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
APR 05...	1145	62	0	9.0	.5	80	0	66	2.9	.01	.20

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL ZINC (ZN) (UG/L)
APR 05...	.05	.00	.00	100	0	0	70	0	10	20

11523000 KLAMATH RIVER AT ORLEANS, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCT MAX	OCT DAILY	OCT MIN	NOV MAX	NOV DAILY	NOV MIN	DEC MAX	DEC DAILY	DEC MIN	JAN MAX	JAN DAILY	JAN MIN	FEB MAX	FEB DAILY	FEB MIN	MAR MAX	MAR DAILY	MAR MIN
1	19.0	--	17.0	10.0	--	9.0	7.0	--	6.5	4.5	--	3.5	--	--	--	--	--	--
2	18.0	--	17.0	10.5	--	9.5	7.5	--	7.0	4.0	--	3.5	--	--	--	--	--	--
3	17.5	--	16.5	11.0	--	10.0	7.5	--	7.0	4.0	--	3.5	--	4.5	--	6.0	--	6.0
4	18.5	--	16.5	12.0	--	11.0	7.5	--	7.0	5.0	--	4.0	--	--	--	6.5	--	5.0
5	18.5	--	16.5	11.0	--	10.5	8.0	--	7.5	6.0	--	5.0	--	3.5	--	6.5	--	5.5
6	17.5	--	16.0	10.5	--	9.5	--	--	--	6.0	--	5.5	--	5.0	--	6.5	--	6.0
7	16.0	--	15.0	10.0	--	9.5	--	--	--	6.0	--	5.5	--	--	--	6.5	--	6.0
8	15.5	--	14.0	10.0	--	9.0	--	--	--	6.5	--	6.0	--	--	--	7.0	--	6.0
9	14.5	--	13.5	9.0	--	8.5	--	--	--	6.5	--	6.0	--	--	--	8.5	--	6.5
10	14.0	--	13.0	8.5	--	8.0	7.0	--	6.5	6.0	--	5.5	--	4.0	--	8.5	--	7.0
11	14.5	--	13.5	8.5	--	8.0	6.5	--	5.5	6.0	--	5.5	--	--	--	8.0	--	7.0
12	15.5	--	13.5	8.0	--	7.5	6.0	--	5.5	6.0	--	5.5	--	4.5	--	7.5	--	7.0
13	16.5	--	14.0	7.5	--	7.0	5.5	--	5.0	6.0	--	5.5	--	4.5	--	7.5	--	6.5
14	15.5	--	14.5	8.0	--	7.5	5.5	--	5.0	6.5	--	6.0	--	4.0	--	8.5	--	7.0
15	16.0	--	14.0	8.0	--	7.0	5.5	--	5.0	6.5	--	5.0	--	--	--	9.0	--	8.0
16	16.0	--	14.0	8.0	--	6.5	6.0	--	5.0	5.0	--	4.0	--	5.5	--	10.0	--	8.5
17	15.0	--	14.0	6.5	--	6.0	6.0	--	5.5	4.5	--	3.5	--	6.0	--	10.5	--	9.0
18	15.5	--	14.0	6.0	--	5.5	6.0	--	5.5	5.5	--	4.5	--	--	--	10.0	--	8.0
19	15.5	--	14.0	6.5	--	6.0	5.5	--	5.0	4.5	--	3.5	--	6.0	--	8.0	--	7.0
20	16.0	--	14.5	7.0	--	6.5	5.0	--	4.5	4.0	--	3.5	--	6.5	--	7.5	--	6.5
21	14.5	--	13.5	7.0	--	6.5	4.5	--	4.5	4.5	--	4.0	--	--	--	8.5	--	7.5
22	13.5	--	12.5	7.5	--	7.0	5.5	--	4.5	5.0	--	4.5	--	6.0	--	8.0	--	8.0
23	13.0	--	11.5	7.5	--	7.0	6.0	--	5.5	5.0	--	4.0	--	6.0	--	8.0	--	7.5
24	12.0	--	11.0	7.0	--	6.5	6.5	--	6.0	4.0	--	3.5	--	6.5	--	7.5	--	7.0
25	11.5	--	10.0	7.0	--	6.5	6.5	--	6.0	4.5	--	4.0	--	7.0	--	8.0	--	6.5
26	10.5	--	9.5	7.5	--	7.0	7.0	--	6.5	4.5	--	4.0	--	8.0	--	8.0	--	7.5
27	9.5	--	9.0	7.5	--	6.5	7.0	--	6.5	4.5	--	4.0	--	8.0	--	8.0	--	7.0
28	10.0	--	9.0	6.5	--	6.0	7.0	--	6.5	5.0	--	4.5	--	7.0	--	9.0	--	7.5
29	10.0	--	9.5	6.0	--	5.5	7.0	--	6.5	5.0	--	4.5	--	7.0	--	9.5	--	8.0
30	10.5	--	9.5	6.5	--	5.5	7.0	--	6.0	5.5	--	4.5	--	--	--	10.5	--	9.0
31	10.0	--	9.5	--	--	--	6.0	--	4.0	5.5	--	4.5	--	--	--	10.5	--	9.0
MONTH	19.0	--	9.0	12.0	--	5.5	8.0	--	4.0	6.5	--	3.5	--	--	--	10.5	--	5.0

DAY	APR MAX	APR DAILY	APR MIN	MAY MAX	MAY DAILY	MAY MIN	JUN MAX	JUN DAILY	JUN MIN	JUL MAX	JUL DAILY	JUL MIN	AUG MAX	AUG DAILY	AUG MIN	SEP MAX	SEP DAILY	SEP MIN
1	9.0	--	7.5	13.0	--	12.0	14.0	--	12.5	--	20.0	--	24.0	--	20.5	23.5	--	21.0
2	9.0	--	7.5	12.5	--	11.0	14.5	--	12.0	--	--	--	23.0	--	20.0	23.5	--	21.0
3	9.0	--	8.0	13.0	--	11.0	15.0	--	12.5	--	--	--	22.5	--	21.5	24.0	--	21.5
4	11.0	--	9.0	12.5	--	11.5	15.0	--	13.0	--	--	--	21.5	--	20.5	23.5	--	21.0
5	11.0	--	9.5	12.5	--	11.0	15.5	--	13.5	--	--	--	20.5	--	20.0	23.0	--	21.0
6	10.5	--	10.0	13.5	--	11.5	16.0	--	13.5	--	--	--	20.5	--	19.5	22.0	--	21.0
7	10.5	--	9.0	14.0	--	12.0	15.5	--	14.0	--	--	--	21.5	--	19.0	21.5	--	19.0
8	9.5	--	8.5	14.5	--	13.0	16.5	--	13.5	--	21.0	--	22.5	--	19.5	21.0	--	18.5
9	9.0	--	8.5	14.5	--	12.5	15.5	--	15.0	--	--	--	23.0	--	20.5	21.0	--	19.0
10	8.5	--	8.5	14.0	--	12.5	16.0	--	14.0	--	--	--	23.5	--	21.0	21.5	--	19.0
11	9.5	--	8.5	13.0	--	11.5	15.5	--	14.5	--	18.0	--	23.5	--	21.5	21.0	--	19.0
12	9.5	--	9.0	13.5	--	12.0	16.0	--	14.5	--	19.0	--	23.5	--	21.0	20.5	--	19.0
13	10.5	--	8.5	15.5	--	13.5	16.5	--	14.5	--	22.0	--	22.0	--	19.0	20.5	--	18.0
14	10.5	--	9.0	15.0	--	13.0	17.5	--	14.5	22.5	--	20.0	20.5	--	19.0	20.5	--	18.0
15	10.5	--	9.5	15.0	--	13.0	18.5	--	16.0	23.5	--	21.0	19.5	--	17.0	20.0	--	16.5
16	10.5	--	8.0	15.0	--	13.0	20.0	--	16.5	23.5	--	21.5	17.5	--	16.0	20.0	--	18.5
17	9.5	--	8.5	14.0	--	12.5	20.5	--	17.5	23.5	--	21.0	17.5	--	16.0	20.5	--	18.5
18	10.5	--	8.5	14.0	--	12.0	21.0	--	18.0	23.5	--	21.5	18.0	--	16.0	20.5	--	18.5
19	12.0	--	9.5	14.5	--	12.0	20.5	--	18.0	23.0	--	21.0	19.5	--	16.0	20.5	--	18.5
20	13.0	--	11.0	14.5	--	12.5	--	--	--	22.5	--	20.0	21.5	--	18.0	20.5	--	18.5
21	12.0	--	10.5	15.0	--	12.5	--	20.0	--	22.5	--	20.0	22.0	--	19.0	20.0	--	18.0
22	12.0	--	10.5	15.0	--	13.0	--	--	--	22.5	--	19.5	22.0	--	20.5	20.0	--	17.0
23	11.5	--	10.0	15.5	--	13.5	--	--	--	23.0	--	21.0	22.5	--	19.5	19.5	--	18.0
24	11.0	--	10.0	14.5	--	13.5	--	21.0	--	24.0	--	21.0	22.0	--	20.5	20.0	--	18.0
25	11.0	--	10.0	16.0	--	13.5	--	21.5	--	25.0	--	22.0	21.5	--	20.5	19.5	--	17.5
26	10.5	--	9.0	17.0	--	14.0	--	--	--	26.0	--	23.0	21.5	--	19.0	20.0	--	16.5
27	11.0	--	9.5	16.5	--	15.0	--	21.5	--	27.0	--	22.5	21.5	--	18.5	19.5	--	17.5
28	11.0	--	10.5	15.5	--	14.0	--	--	--	27.0	--	22.5	22.0	--	19.5	19.5	--	17.0
29	11.0	--	10.0	14.5	--	13.5	--	20.0	--	26.0	--	22.0	22.5	--	19.0	20.0	--	17.5
30	13.5	--	10.5	13.5	--	12.5	--	21.0	--	24.5	--	20.0	23.0	--	20.5	20.0	--	17.5
31	--	--	--	13.0	--	12.0	--	--	--	25.5	--	20.0	23.5	--	21.0	--	--	--
MONTH	13.5	--	7.5	17.0	--	11.0	--	--	--	--	--	--	24.0	--	16.0	24.0	--	16.5

11523000 KLAMATH RIVER AT ORLEANS, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	2620	9	64	7090	12	230	9260	46	1150
2	2610	9	63	6700	9	163	9840	44	1170
3	2620	9	64	6940	13	244	8750	39	921
4	2630	9	64	6670	12	216	13900	147	8120
5	2640	9	64	6300	11	187	25900	225	16000
6	2690	9	65	6260	10	169	26400	206	15000
7	2830	9	69	9280	28	734	20400	95	5230
8	2860	9	69	8580	17	394	16600	70	3140
9	2880	9	70	7240	12	235	14500	68	2660
10	3330	12	108	8770	24	568	12600	42	1430
11	3260	11	97	7910	19	406	12400	31	1040
12	3050	10	82	7110	17	326	12400	33	1100
13	2970	9	72	6850	16	296	11000	36	1070
14	2970	9	72	7140	29	559	10100	32	873
15	3450	14	130	26000	355	28600	9300	29	728
16	3530	13	124	20500	114	6310	8450	27	616
17	3560	12	115	15000	60	2430	8300	27	605
18	3740	12	121	11000	55	1630	7800	28	590
19	3690	10	100	9600	42	1090	7400	26	519
20	3600	9	87	8500	28	643	7100	21	403
21	3590	9	87	7910	25	534	6950	22	413
22	3730	9	91	7460	24	483	6850	22	407
23	3960	12	128	7320	23	455	6850	23	425
24	3910	10	106	7130	22	424	6850	20	370
25	6540	44	1060	7070	22	420	6600	20	356
26	12600	71	2480	7250	36	705	7000	18	340
27	8910	59	1420	7300	39	769	7300	16	315
28	7260	49	960	7210	38	740	7200	14	272
29	6300	36	612	7090	37	708	7200	12	233
30	9900	45	1200	7070	36	687	7200	11	214
31	8480	25	572	---	---	---	7500	10	202
TOTAL	136710	---	10416	266250	---	51355	329900	---	65912

	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	7440	10	201	6510	7	123	19600	80	4230
2	7280	9	177	6420	7	121	16400	72	3190
3	7220	9	175	6330	8	137	14100	62	2360
4	7220	8	156	6280	9	153	12000	54	1750
5	8160	26	573	6050	9	147	10500	46	1300
6	8050	29	630	5950	9	145	9640	38	989
7	7820	27	570	5960	12	193	9090	31	761
8	11600	68	2210	5940	11	176	8810	26	618
9	13100	25	884	5960	14	225	8540	22	507
10	11000	11	327	5900	19	303	8470	20	457
11	10000	13	351	5550	19	285	8520	19	437
12	9970	17	458	5400	23	335	8220	18	399
13	9520	14	360	5570	25	376	7910	17	363
14	9310	12	302	5960	25	402	7720	16	334
15	9480	12	307	5780	22	343	7540	14	285
16	9470	12	307	8370	67	1620	7710	13	271
17	9470	12	307	9300	32	804	8840	21	501
18	9210	13	323	9300	40	1000	10000	31	837
19	8750	13	307	8860	35	837	9800	26	688
20	8260	13	290	8100	24	525	9070	21	514
21	7900	12	256	7540	18	366	8720	21	494
22	7630	11	227	7280	16	314	8590	18	417
23	7420	10	200	7130	18	347	8590	15	348
24	7350	9	179	7030	18	342	9150	18	445
25	7250	8	157	9020	39	950	9200	17	422
26	7140	7	135	21900	197	12800	9000	15	364
27	7060	6	114	25300	184	12600	8700	13	305
28	6970	6	113	27400	130	9620	8400	11	249
29	6850	6	111	23300	90	5660	8350	9	203
30	6700	6	109	---	---	---	8650	10	234
31	6580	6	107	---	---	---	9210	13	323
TOTAL	261180	---	10923	269390	---	51249	299040	---	24595

11523000 KALAMTH RIVER AT ORLEANS, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	9020	12	292	8660	11	257	4950	6	80
2	8690	10	235	9720	13	341	4700	5	63
3	8530	10	230	9130	11	271	4350	5	59
4	8200	9	199	9070	10	245	4120	5	56
5	8390	10	227	8900	8	192	4010	6	65
6	8510	10	230	8960	9	218	3900	7	74
7	8190	9	199	8950	12	290	3860	8	83
8	9010	12	292	10300	25	695	3800	9	92
9	9070	13	318	11600	58	1820	3710	7	70
10	8590	12	278	11800	27	860	3640	6	59
11	8340	14	315	10800	16	467	3570	5	48
12	8080	13	284	9310	9	226	3560	5	48
13	7820	11	232	10200	12	330	3550	10	96
14	7510	11	223	10800	25	729	3420	20	185
15	7430	14	281	9170	19	470	3360	17	154
16	7290	14	276	8270	16	357	3370	15	136
17	7170	13	252	7760	10	210	3300	14	125
18	7170	12	232	7260	8	157	3260	12	106
19	7100	11	211	7070	7	134	3260	12	106
20	7120	11	211	6660	6	108	3190	10	86
21	7340	8	159	6350	6	103	3090	12	100
22	7350	9	179	6230	5	84	2990	12	97
23	7450	11	221	6120	8	132	2890	11	86
24	7950	16	343	5990	11	178	2790	11	83
25	8500	16	367	5820	16	251	2720	12	88
26	7970	11	237	5700	14	215	2630	8	57
27	7530	8	163	5790	20	313	2550	4	28
28	7370	8	159	5610	14	212	2460	6	40
29	7240	10	195	5320	9	129	2400	8	52
30	7360	10	199	5150	8	111	2340	9	57
31	---	---	---	5050	7	95	---	---	---
TOTAL	237290	---	7239	247520	---	10200	101740	---	2479

	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	2320	9	56	1650	7	31	2240	9	54
2	2270	9	55	1860	12	60	2300	8	50
3	2210	8	48	2020	9	49	2320	7	44
4	2190	8	47	2070	8	45	2310	7	44
5	2160	8	47	2040	7	39	2300	6	37
6	2130	8	46	2080	7	39	2280	6	37
7	2090	7	40	2080	7	39	2270	6	37
8	2070	7	39	2030	7	38	2270	5	31
9	2040	7	39	1970	7	37	2270	5	31
10	2000	7	38	1910	8	41	2260	5	31
11	2000	8	43	1860	8	40	2250	5	30
12	2060	10	56	1840	9	45	2240	5	30
13	1990	7	38	1830	8	40	2260	5	31
14	1930	7	36	1970	9	48	2280	5	31
15	1900	7	36	2710	12	88	2280	6	37
16	1870	7	35	3560	11	106	2340	6	38
17	1890	15	77	3090	10	83	2520	7	48
18	2000	12	65	2910	8	63	2370	10	64
19	1920	10	52	2730	6	44	2330	12	75
20	1850	9	45	2590	6	42	2340	15	95
21	1810	9	44	2510	6	41	2270	9	55
22	1800	9	44	2500	7	47	2330	7	44
23	1770	9	43	2500	8	54	2380	5	32
24	1740	8	38	2520	10	68	2390	4	26
25	1720	8	37	2460	12	80	2380	4	26
26	1700	8	37	2420	10	65	2400	4	26
27	1680	8	36	2380	14	90	2410	5	33
28	1670	8	36	2360	12	76	2410	6	39
29	1650	8	36	2320	15	94	2410	6	39
30	1660	7	31	2280	13	80	2410	7	46
31	1650	7	31	2250	11	67	---	---	---
TOTAL	59740	---	1351	71300	---	1779	69820	---	1241
YEAR	2349880		238739.0						

11523000 KLAMATH RIVER AT ORLEANS, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
NOV										
16...	0100	8.0	27100	270	19800	48	75	92	99	100
16...	1200	7.5	20100	74	4020	72	86	97	100	--
DEC										
10...	1515	7.0	12200	40	1320	62	68	80	92	100
FEB										
26...	1510	8.0	27700	251	18800	60	74	94	100	--
27...	1640	8.0	23900	152	9810	89	95	99	100	--
AUG										
19...	1315	19.0	2720	7	51	91	94	97	100	--

11523200 TRINITY RIVER ABOVE COFFEE CREEK, NEAR TRINITY CENTER, CA

LOCATION.--Lat 41°06'29", long 122°42'23", in NE¼SE¼ sec.31, T.38 N., R.7 W., Trinity County, Shasta National Forest, on right bank 250 ft (76 m) downstream from Chinquapin Gulch, 1.8 mi (2.9 km) upstream from Coffee Creek, and 8.5 mi (13.7 km) north of Trinity Center.

DRAINAGE AREA.--149 mi^2 (386 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 2,533.36 ft (772.168 m) above mean sea level.

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

AVERAGE DISCHARGE.--19 years, 431 ft^3/s (12.21 m^3/s), 312,300 acre-ft/yr (385 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,500 ft^3/s (750 m^3/s) Jan. 16, 1974, gage height, 12.96 ft (3.950 m) in gage well, 13.6 ft (4.15 m) from floodmarks, from rating curve extended above 4,500 ft^3/s (127 m^3/s) on basis of slope-area measurements at gage heights 9.91 ft (3.021 m) and 12.96 ft (3.950 m); minimum daily, 27 ft^3/s (0.77 m^3/s) Nov. 3, 1966.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1955, reached a stage of 10.5 ft (3.20 m) from floodmarks, discharge, 11,400 ft^3/s (323 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,730 ft^3/s (49.0 m^3/s) May 8, gage height, 4.60 ft (1.402 m), no peak above base of 1,900 ft^3/s (53.8 m^3/s); minimum daily, 32 ft^3/s (0.91 m^3/s) Sept. 11, 25-27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	113	89	157	108	281	278	917	255	72	56	37
2	41	126	92	152	110	232	257	958	233	71	69	35
3	41	143	92	146	112	190	257	888	231	69	54	35
4	41	137	137	140	109	165	282	923	216	69	52	35
5	41	130	354	152	87	150	364	979	202	68	54	34
6	47	122	390	143	107	148	358	947	196	67	54	33
7	53	132	297	130	110	156	637	1010	190	64	58	33
8	48	126	248	188	106	160	832	1220	185	63	56	33
9	62	105	223	295	102	176	631	1430	179	62	52	33
10	107	112	205	195	96	214	607	1340	179	61	48	33
11	97	100	188	142	95	251	570	1090	170	60	48	32
12	78	96	189	118	96	228	496	996	166	63	50	33
13	73	100	166	116	103	222	447	1170	157	60	50	33
14	69	129	149	114	105	214	448	1080	147	58	76	33
15	66	447	145	117	103	236	484	863	142	56	122	33
16	64	318	148	125	113	310	432	775	141	55	85	39
17	62	196	143	133	109	468	401	702	137	59	67	40
18	63	150	137	131	111	575	382	626	132	61	110	37
19	59	131	131	127	121	446	431	580	126	57	87	36
20	57	122	125	122	109	361	604	516	118	55	62	34
21	57	108	127	123	104	332	670	473	116	53	53	33
22	58	103	131	120	104	335	651	455	121	50	48	33
23	57	97	126	123	102	304	702	435	104	48	57	33
24	55	93	131	121	101	295	757	416	98	47	50	33
25	86	97	127	114	144	271	761	388	94	46	46	32
26	99	98	134	114	357	253	637	370	88	46	44	32
27	97	99	146	114	338	236	590	371	83	46	43	32
28	92	95	174	111	406	222	568	341	79	44	41	53
29	92	90	223	110	354	215	558	303	76	44	40	48
30	202	90	202	108	---	238	693	284	75	46	40	40
31	131	---	177	108	---	322	---	296	---	45	39	---
TOTAL	2236	4005	5346	4209	4122	8206	15785	23142	4436	1765	1811	1060
MEAN	72.1	134	172	136	142	265	526	747	148	56.9	58.4	35.3
MAX	202	447	390	295	406	575	832	1430	255	72	122	53
MIN	41	90	89	108	87	148	257	284	75	44	39	32
AC-FT	4440	7940	10600	8350	8180	16280	31310	45900	8800	3500	3590	2100

CAL YR 1975 TOTAL 165926 MEAN 455 MAX 2960 MIN 41 AC-FT 329100
WTR YR 1976 TOTAL 76123 MEAN 208 MAX 1430 MIN 32 AC-FT 151000

11525400 CLAIR ENGLE LAKE NEAR LEWISTON, CA

LOCATION.--Lat 40°48'05", long 122°45'44", in NW¼SW¼ sec.15, T.34 N., R.8 W., Trinity County, Trinity National Forest, on side of intake structure of Trinity Dam on Trinity River, 9 mi (14 km) north of Lewiston.

DRAINAGE AREA.--692 mi^2 (1,792 km^2).

PERIOD OF RECORD.--November 1960 to current year. Prior to October 1963 published as Trinity Lake near Lewiston.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Bureau of Reclamation). Prior to Jan. 4, 1962, nonrecording gage at same site and datum.

REMARKS.--The lake is formed by an earthfill dam completed in November 1960. Storage began Nov. 23, 1960. Usable capacity, 2,437,700 acre-ft (3.01 km^3) 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^3). Records, including extremes, represent total contents at 2400 hours.

COOPERATION.--Records furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 2,588,000 acre-ft (3.19 km^3) Jan. 19, 1974, elevation, 2,378.32 ft (724.912 m); minimum since lake first filled, 1,305,600 acre-ft (1.61 km^3) Dec. 9, 1968, elevation, 2,286.22 ft (696.840 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,114,100 acre-ft (2.61 km^3) June 1, elevation, 2,348.68 ft (715.878 m); minimum, 1,502,800 acre-ft (1.85 km^3) Sept. 30, elevation, 2,303.40 ft (702.076 m).

Capacity table (elevation, in feet, and contents, in acre-feet)

1960	670	2100	162231
1970	1894	2140	292850
1980	4131	2190	529611
2000	12373	2250	955140
2020	26436	2310	1583590
2040	47023	2380	2616990
2070	92906		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2037500	1948600	1852600	1874900	1843500	1848000	1850200	1961700	2114100	1983900	1822900	1663400
2	2033700	1946200	1852600	1874900	1840100	1850800	1851300	1967500	2110700	1979000	1817200	1658200
3	2030300	1941700	1852400	1874900	1836800	1852000	1852000	1973700	2106600	1973600	1810900	1653100
4	2027100	1937300	1854800	1875100	1832800	1853100	1853400	1979500	2102400	1969300	1805400	1647600
5	2023200	1932000	1860000	1875400	1830700	1854200	1854900	1986300	2098700	1964500	1799600	1641600
6	2019700	1927200	1863200	1875200	1828600	1854900	1856800	1992000	2095000	1959600	1794200	1635500
7	2015900	1922800	1865100	1875400	1827100	1855900	1862200	1998700	2091100	1954200	1789000	1629600
8	2012400	1917900	1866200	1876300	1825500	1856800	1868400	2008900	2087400	1949400	1783900	1623700
9	2010600	1913700	1867500	1876500	1823800	1857800	1871900	2018800	2083200	1944400	1778800	1618100
10	2008600	1909700	1868000	1876500	1823000	1857800	1878600	2027500	2079100	1939100	1773900	1612400
11	2005400	1904900	1869400	1876600	1822300	1857800	1883300	2035200	2074600	1933400	1768500	1606500
12	2002300	1900000	1870000	1876500	1821800	1855600	1887500	2042800	2070200	1928500	1762800	1601100
13	1999100	1895100	1870400	1876500	1821400	1853100	1891200	2048400	2066200	1923100	1756800	1595600
14	1996100	1891200	1870800	1876500	1821700	1850800	1895300	2053400	2062400	1918600	1752100	1589800
15	1992900	1894400	1870900	1876500	1821400	1848600	1898800	2059700	2058100	1913800	1747800	1583800
16	1989700	1892600	1871200	1876600	1822200	1847100	1902100	2065000	2054300	1908900	1743100	1578400
17	1986100	1889100	1871500	1876600	1821900	1846500	1905200	2069600	2050600	1903500	1738200	1572500
18	1983200	1885400	1871600	1876900	1821800	1846800	1908300	2074000	2046900	1898500	1734200	1567600
19	1979900	1880800	1871500	1876200	1822300	1846500	1911800	2078500	2042900	1892900	1729800	1562300
20	1977000	1876600	1871800	1875900	1822900	1846000	1915900	2082500	2038100	1887200	1725700	1556800
21	1973400	1872000	1872500	1875900	1822200	1845600	1920100	2084900	2033100	1882000	1721000	1551200
22	1969800	1867300	1872600	1873800	1821700	1844100	1921800	2088600	2028600	1877000	1715900	1545400
23	1966200	1862500	1872600	1871300	1821000	1843000	1926900	2092000	2024000	1871800	1711400	1540300
24	1962900	1857500	1872600	1868900	1820400	1843200	1931700	2095300	2019200	1866600	1706100	1534900
25	1963500	1852900	1872900	1866800	1823400	1843500	1936400	2098100	2014500	1861700	1700200	1529300
26	1961400	1852700	1872900	1864800	1831300	1844200	1940100	2101500	2009500	1856400	1694900	1523200
27	1958600	1852400	1873100	1862900	1836500	1845200	1943800	2103600	2004800	1851200	1689700	1517700
28	1956800	1852200	1873700	1858900	1840800	1845800	1947500	2106200	2000000	1845700	1684700	1513300
29	1954800	1852200	1874300	1854500	1845300	1846800	1951100	2108400	1994500	1840100	1679500	1508200
30	1953500	1852400	1874300	1851100	---	1847600	1955900	2110800	1988600	1834500	1674200	1502800
31	1951200	---	1874800	1847100	---	1849300	---	2112100	---	1828500	1668900	---
MAX	2037500	1948600	1874800	1876900	1845300	1857800	1955900	2112100	2114100	1983900	1822900	1663400
MIN	1951200	1852200	1852400	1847100	1820400	1843000	1850200	1961700	1988600	1828500	1668900	1502800
†	2337.55	2330.50	2332.12	2330.11	2329.98	2330.27	2337.88	2348.55	2340.15	2328.75	2316.73	2303.40
‡	-89500	-98800	+22400	-27700	-1800	+4000	+106600	+156200	-123500	-160100	-159600	-166100
††	2140	580	360	470	570	2140	3650	7550	8150	8320	5140	4760

CAL YR 1975 ‡ +43500
WTR YR 1976 ‡ -537900

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.
†† Evaporation, in acre-feet.

11525430 JUDGE FRANCIS CARR POWERPLANT NEAR FRENCH GULCH, CA

LOCATION.--Lat 40°38'49", long 122°37'34", Shasta County, at powerplant 1.6 mi (2.6 km) downstream from Mill Creek, and 3.8 mi (6.1 km) south of French Gulch.

PERIOD OF RECORD.--April 1963 to current year.

GAGE.--Recorded powerplant output.

REMARKS.--Water is diverted from Trinity River at NW¼SE¼ sec.8, T.33 N., R.8 W., through a tunnel to powerplant and then into Whiskeytown Lake (station 11371700). See schematic diagram of Pit and McCloud River basins.

COOPERATION.--Records furnished by Bureau of Reclamation, rounded to Geological Survey standards.

AVERAGE DISCHARGE.--13 years, 1,719 ft^3/s (48.68 m^3/s), 1,245,000 acre-ft/yr (1.54 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,910 ft^3/s (111 m^3/s) Feb. 11, 1970; no flow for several days in many years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1500	1490	174	309	1910	520	381	0	125	2620	2630	2630
2	1550	1490	233	357	2030	590	256	0	2580	2620	2640	2630
3	1430	2610	381	309	2100	416	262	4.0	2710	2620	2710	2620
4	1560	2600	689	260	2010	424	261	0	2620	2620	2630	2620
5	1560	2600	198	341	1100	395	271	0	2620	2620	2630	2630
6	777	2600	191	417	1050	341	261	0	2620	2620	2630	2620
7	1580	2600	486	432	933	321	384	0	2630	2620	2640	2620
8	1600	2590	421	431	925	421	348	0	2760	2620	2640	2800
9	1600	2590	424	361	947	383	368	2.0	2630	2620	2630	2640
10	1600	2590	344	303	505	855	267	0	2630	2620	2640	2640
11	1600	2590	427	320	524	813	263	0	2720	2620	2640	2630
12	1600	2680	364	359	537	1930	0	283	2650	2630	2630	2620
13	1600	2590	325	381	484	2030	0	909	2630	2630	2640	2630
14	1600	2590	399	436	560	2050	0	1010	2630	2720	2630	2630
15	1600	2590	409	410	478	2070	0	114	2800	2630	2410	2630
16	1500	2580	467	336	598	2000	0	0	2670	2630	2630	2620
17	1500	2640	369	374	549	1510	0	0	2630	2620	2630	2630
18	1600	2580	363	331	541	1460	0	0	2630	2630	2630	2630
19	1500	2580	368	353	541	1480	0	0	2630	2640	2630	2630
20	1500	2580	403	441	545	1480	0	0	2630	2630	2620	2630
21	1500	2580	417	418	567	1480	0	0	2630	2640	2620	2640
22	1500	2580	495	1080	551	1480	1250	0	2630	2630	2620	2630
23	1600	2580	341	945	560	1480	0	0	2740	2620	2620	2630
24	1600	2590	287	960	568	756	0	0	2730	2630	2620	2630
25	1600	2580	327	1030	577	769	0	0	2630	2630	2620	2630
26	1520	485	406	1100	691	341	0	0	2630	2630	2620	2630
27	1140	336	407	1200	369	330	0	0	2630	2630	2630	2630
28	1600	295	401	2140	392	326	0	0	2630	2630	2630	2630
29	1210	242	447	2150	458	340	0	0	2630	2630	2630	2620
30	1600	167	431	1900	---	277	0	0	2720	2640	2630	2630
31	1530	---	304	1880	---	311	---	0	---	2630	2630	---
TOTAL	46757	64195	11698	22064	23600	29379	4572	2322.0	77145	81520	81380	79030
MEAN	1508	2140	377	712	814	948	152	74.9	2572	2630	2625	2634
MAX	1600	2680	689	2150	2100	2070	1250	1010	2800	2720	2710	2800
MIN	777	167	174	260	369	277	0	0	125	2620	2410	2620
AC-FT	92740	127300	23200	43760	46810	58270	9070	4610	153000	161700	161400	156800

CAL YR 1975 TOTAL 555606.00 MEAN 1522 MAX 3450 MIN 0 AC-FT 1102000
WTR YR 1976 TOTAL 523662.00 MEAN 1431 MAX 2800 MIN 0 AC-FT 1039000

11525500 TRINITY RIVER AT LEWISTON, CA

LOCATION.--Lat 40°43'10", long 122°48'09", in SW¼NW¼ sec.17, T.33 N., R.8 W., Trinity County, on right bank 400 ft (122 m) upstream from Deadwood Creek, and 0.8 mi (1.3 km) northeast of Lewiston.

DRAINAGE AREA.--719 mi^2 (1,862 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1911 to current year.

REVISED RECORDS.--WSP 331: 1911-12. WSP 1181: 1949. WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 1,810 ft (552 m), from topographic map. See WSP 1929 for history of changes prior to July 7, 1964.

REMARKS.--Records good. Flow regulated by Clair Engle Lake (station 11525400) beginning in November 1960. Diversion to Judge Francis Carr powerplant (station 11525430) began in April 1963. Small diversions above head of Trinity Lake for irrigation, power, and placer mining.

AVERAGE DISCHARGE (adjusted for change in contents, evaporation, and diversion).--65 years, 1,718 ft^3/s (48.65 m^3/s), 1,245,000 acre-ft/yr (1.54 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 71,600 ft^3/s (2,030 m^3/s) Dec. 22, 1955, gage height, 27.3 ft (8.32 m) from floodmarks, site and datum then in use; minimum, 23 ft^3/s (0.65 m^3/s) July 30, 1924. Maximum discharge since construction of Lewiston Dam in 1960, 14,400 ft^3/s (408 m^3/s) Jan. 18, 1974, gage height, 10.41 ft (3.173 m); minimum daily, 100 ft^3/s (2.83 m^3/s) Apr. 14, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1861 reached a stage of 21.6 ft (6.58 m) from floodmarks, at site 1.1 mi (1.8 km) downstream at different datum, discharge, not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,060 ft^3/s (30.0 m^3/s) Jan. 22, gage height, 4.82 ft (1.469 m); minimum daily, 100 ft^3/s (2.83 m^3/s) Apr. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	208	260	184	159	158	164	158	151	144	143	140	174
2	208	261	162	160	158	164	157	150	142	142	140	192
3	208	260	162	159	158	163	156	151	143	145	140	189
4	208	259	162	160	157	162	157	150	145	146	140	187
5	207	259	163	162	158	162	130	150	146	144	140	187
6	209	259	162	162	158	162	114	150	146	143	140	185
7	212	261	161	162	159	163	126	152	146	143	139	186
8	212	260	161	162	160	163	115	153	145	145	140	189
9	212	260	160	161	160	163	110	156	144	143	140	185
10	212	261	161	161	160	162	108	149	145	143	141	183
11	210	261	160	161	161	163	107	145	146	144	141	184
12	209	260	160	161	161	163	104	147	146	143	141	183
13	209	259	160	162	161	164	101	148	148	142	141	183
14	209	242	160	162	162	165	100	148	148	143	142	184
15	237	213	160	161	162	164	105	152	148	142	141	185
16	258	212	160	161	164	164	104	151	147	142	139	193
17	258	211	158	161	163	164	103	150	147	143	140	196
18	258	209	158	162	163	164	102	150	147	142	141	196
19	257	209	159	162	162	164	104	149	147	142	141	195
20	258	210	158	163	161	164	131	147	146	142	141	194
21	258	211	158	164	161	164	151	148	146	142	142	193
22	259	210	157	456	160	164	151	150	147	141	140	195
23	258	209	158	899	161	164	151	149	146	142	138	196
24	257	213	160	648	162	164	149	148	146	142	127	195
25	263	213	161	465	166	164	149	148	145	142	134	194
26	259	211	160	373	168	165	149	149	146	141	134	194
27	262	210	160	349	166	164	153	149	147	141	133	192
28	259	210	161	298	165	164	152	149	146	140	134	196
29	261	209	160	249	166	164	152	148	146	140	139	197
30	261	211	159	190	---	164	152	146	146	140	134	196
31	259	---	158	158	---	164	---	145	---	140	135	---
TOTAL	7315	6993	4983	7473	4681	5072	3901	4628	4377	4413	4298	5698
MEAN	236	233	161	241	161	164	130	149	146	142	139	190
MAX	263	261	184	899	168	165	158	156	148	146	142	197
MIN	207	209	157	158	157	162	100	145	142	140	127	174
AC-FT	14510	13870	9880	14820	9280	10060	7740	9180	8680	8750	8530	11300
MEAN ‡	323	722	908	510	954	1210	2135	2887	776	303	251	113
AC-FT ‡	19850	42980	55840	31340	54860	74430	127050	177540	46170	18650	15450	6700

CAL YR 1975 TOTAL 138377 MEAN 379 MAX 2210 MIN 157 AC-FT 274500 MEAN ‡ 2026 AC-FT ‡ 1467000
WTR YR 1976 TOTAL 63832 MEAN 174 MAX 899 MIN 100 AC-FT 126600 MEAN ‡ 924 AC-FT ‡ 670900

‡ Adjusted for change in contents, evaporation, and diversion from Engle Lake. Data furnished by Bureau of Reclamation.

11525500 TRINITY RIVER AT LEWISTON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--1951 to current year.
CHEMICAL ANALYSES: Water years 1951 to current year.
WATER TEMPERATURES: Water years 1952-55, 1958 to current year.
SEDIMENT RECORDS: Water years 1955-61.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: September 1951 to September 1955, October 1957 to September 1958, July 1959 to current year.

INSTRUMENTATION.--Temperature recorder September 1951 to September 1955, October 1957 to September 1958, and since July 1959.

REMARKS.--Water temperatures affected by construction of Trinity Dam beginning in November 1960. Extremes are given below for two separate periods--Water years 1952-60, and 1961 to current year. Clock stopped Jan. 5, 6; range in temperature, 6.0°C to 5.5°C.

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

EXTREMES FOR PERIOD OF DAILY RECORD (See REMARKS above):
WATER TEMPERATURES (water years 1952-60): Maximum, (water years 1952-55, 1958, 1960), 26.0°C July 20, 21, 28, 29, 1960; minimum, 1.0°C on several days in 1952.
(water years 1961 to current year): Maximum (water years 1961, 1965-76), 19.5°C Oct. 1, 2, 1960, June 13, 15-17, 1961; minimum, 3.0°C June 22, 23, 1962.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 18.0°C May 27; minimum, 5.0°C Feb. 9, 10.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
NOV									
03...	0805	261	80	7.1	8.0	1	10.5	--	--
JAN									
05...	0900	163	80	8.4	6.0	0	10.8	39	0
MAR									
01...	0800	164	86	7.2	7.0	2	10.6	--	--
MAY									
03...	0730	151	89	7.4	12.0	0	9.9	41	2
JUL									
12...	0730	143	82	7.1	11.0	1	10.4	--	--
SEP									
13...	0715	183	86	7.0	10.0	1	9.7	--	--

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV									
03...	--	--	--	--	--	--	--	--	--
JAN									
05...	1.8	.1	49	0	40	2.0	--	--	--
MAR									
01...	--	--	--	--	--	--	--	--	--
MAY									
03...	2.3	.2	48	0	39	2.0	.01	.10	.02
JUL									
12...	--	--	--	--	--	--	--	--	--
SEP									
13...	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV								
03...	--	--	--	--	--	--	--	--
JAN								
05...	--	0	--	--	--	--	--	--
MAR								
01...	--	--	--	--	--	--	--	--
MAY								
03...	.01	0	0	0	60	0	20	0
JUL								
12...	--	--	--	--	--	--	--	--
SEP								
13...	--	--	--	--	--	--	--	--

11525500 TRINITY RIVER AT LEWISTON, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	9.5	8.5	8.0	6.5	6.5	6.0	5.5	7.0	6.5	7.5	6.5
2	10.0	9.5	8.5	8.0	6.5	6.5	6.0	6.0	7.0	6.5	7.0	6.5
3	10.0	9.0	8.5	8.0	6.5	6.5	6.5	6.0	7.0	6.0	7.5	6.5
4	10.0	9.0	8.5	8.0	6.5	6.5	6.5	6.0	7.0	6.0	7.5	6.5
5	10.0	9.0	9.0	8.5	6.5	6.5	---	---	6.5	5.5	7.5	6.5
6	9.5	9.0	8.5	8.5	7.0	6.5	---	---	6.0	5.5	7.5	6.5
7	10.0	9.0	8.5	8.0	7.0	6.5	6.5	6.0	6.0	5.5	7.5	6.5
8	10.0	9.5	8.5	8.0	7.0	6.5	6.5	6.5	6.0	5.5	7.5	6.5
9	9.5	9.0	8.5	8.0	7.0	7.0	6.5	6.0	6.0	5.0	8.0	7.0
10	9.5	9.0	8.0	7.5	7.5	7.0	6.5	6.0	6.0	5.0	8.0	7.0
11	9.0	8.5	8.0	7.5	7.0	7.0	6.5	6.0	6.0	5.5	8.5	7.0
12	9.0	8.5	8.0	7.5	7.0	6.5	6.0	5.5	6.5	5.5	9.0	7.5
13	9.0	9.0	8.0	7.5	6.5	6.5	6.5	5.5	6.0	6.0	9.0	7.5
14	9.0	9.0	7.5	7.0	6.5	6.5	6.5	6.0	6.0	6.0	9.0	7.5
15	9.0	9.0	7.5	7.5	6.5	6.5	6.5	6.0	6.0	6.0	8.5	7.5
16	9.0	8.5	7.5	7.0	7.0	6.5	6.5	6.0	6.5	6.0	8.5	7.5
17	9.5	9.0	7.5	7.0	7.0	6.5	6.5	6.5	6.5	6.0	9.0	8.0
18	9.0	8.5	7.5	7.0	6.5	6.0	7.0	6.5	6.5	6.0	9.0	8.0
19	9.0	8.5	7.0	7.0	6.5	6.0	6.5	6.0	7.0	6.5	9.5	7.5
20	9.0	8.5	7.0	7.0	6.5	6.0	6.5	6.0	7.0	6.5	9.0	7.5
21	9.0	8.5	7.5	7.0	6.5	6.0	6.5	6.0	7.5	6.5	9.0	7.5
22	9.0	8.5	7.5	7.0	6.5	6.5	7.0	6.0	7.5	6.5	8.5	7.5
23	9.0	8.5	7.5	7.0	6.5	6.0	7.0	6.5	7.5	7.0	9.0	7.5
24	9.0	8.0	8.0	7.0	6.5	6.5	7.0	6.5	7.5	7.0	8.5	7.5
25	9.0	8.0	8.0	7.5	6.5	6.5	7.0	6.0	7.5	7.0	9.0	7.5
26	8.5	8.0	8.0	7.5	6.5	6.5	7.0	6.0	7.5	7.0	9.0	7.5
27	8.5	8.0	7.5	7.0	6.5	6.0	7.0	6.0	7.5	7.0	9.0	7.5
28	8.5	7.5	7.0	6.5	6.5	6.0	7.0	6.0	7.5	7.0	10.0	8.0
29	8.5	8.0	6.5	6.5	6.5	6.0	6.5	6.0	7.5	6.5	9.5	8.0
30	8.5	7.5	6.5	6.5	6.5	6.0	6.5	6.0	---	---	10.5	8.5
31	8.5	7.5	---	---	6.5	5.5	6.5	6.0	---	---	10.5	8.5
MONTH	10.0	7.5	9.0	6.5	7.5	5.5	7.0	5.5	7.5	5.0	10.5	6.5

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

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA

LOCATION.--Lat 40°40'35", long 122°49'46", in SW¼NE¼ sec.36, T.33 N., R.9 W., Trinity County, on right bank 0.1 mi (0.2 km) upstream from Phillips Gulch, and 2.5 mi (4.0 km) southwest of Lewiston.

DRAINAGE AREA.--30.8 mi^2 (79.8 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1975 to September 1976.

GAGE.--Water-stage recorder. Datum of gage is 2,049.73 ft (624.758 m) above mean sea level (California State Highway Department bench mark).

REMARKS.--Records good.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period November 1975 to September 1976, 115 ft^3/s (3.26 m^3/s) Apr. 8, gage height, 4.91 ft (1.497 m), no peak above base of 150 ft^3/s (4.25 m^3/s); maximum gage height, 4.92 ft (1.500 m) Feb. 26, 1976; minimum daily discharge, 8.5 ft^3/s (0.24 m^3/s) Sept. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	19	18	17	47	23	35	19	12	11	9.5
2		---	18	19	16	43	23	35	19	12	11	9.0
3		---	18	17	16	39	23	34	19	12	11	9.0
4		---	23	18	16	35	23	33	19	12	11	9.0
5		---	33	18	16	34	23	33	19	12	12	8.9
6		---	28	18	16	32	26	33	19	11	13	9.0
7		---	23	18	16	32	54	33	18	12	12	9.1
8		---	22	19	16	32	86	32	18	12	11	8.9
9		---	21	20	16	32	65	32	18	12	11	8.8
10		---	21	19	16	32	74	31	18	11	11	9.0
11		---	20	18	16	30	76	30	18	12	11	9.0
12		---	21	18	16	28	65	29	18	12	10	9.9
13		---	20	18	17	27	60	28	17	11	11	9.6
14		---	19	18	17	27	56	28	16	11	14	9.0
15		---	19	18	18	26	53	27	15	11	16	8.8
16		---	19	18	27	25	50	26	15	11	13	10
17		21	18	18	23	26	49	25	15	17	13	11
18		20	18	18	21	26	46	25	14	13	15	10
19		19	18	17	23	25	43	24	14	12	13	9.9
20		19	18	17	21	25	42	24	14	11	12	9.3
21		19	18	17	20	25	41	23	14	11	11	9.1
22		19	20	17	19	24	40	22	14	11	12	9.2
23		19	19	17	19	24	40	22	13	11	12	9.2
24		19	18	17	18	25	40	21	13	11	11	9.0
25		18	18	17	24	25	39	21	13	10	11	8.5
26		17	18	17	73	24	37	20	12	10	11	8.6
27		18	18	17	54	24	37	20	12	10	10	9.2
28		17	18	17	53	24	35	20	12	10	10	16
29		17	18	17	58	23	36	20	11	10	10	12
30		17	18	17	---	23	35	20	12	10	10	11
31		---	18	16	---	24	---	20	---	10	9.5	---
TOTAL		---	617	548	698	888	1340	826	468	353	359.5	288.5
MEAN		---	19.9	17.7	24.1	28.6	44.7	26.6	15.6	11.4	11.6	9.62
MAX		---	33	20	73	47	86	35	19	17	16	16
MIN		---	18	16	16	23	23	20	11	10	9.5	8.5
AC-FT		---	1220	1090	1380	1760	2660	1640	928	700	713	572

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1975 to September 1976.
SEDIMENT RECORDS.--November 1975 to September 1976.

EXTREMES FOR CURRENT PERIOD (November 1975 to September 1976).--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 684 mg/L Feb. 26; minimum daily mean, 2 mg/L on several days during November.
SEDIMENT DISCHARGE: Maximum daily, 142 tons (129 tonnes) Feb. 26; minimum daily, 0.07 ton (0.06 tonne) on several days during September.

TEMPERATURE (DEG. C) OF WATER, NOVEMBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	7.0	---	---	---	---	10.0	---	15.0	---	---
2		---	---	1.0	---	---	---	---	---	---	16.0	---
3		---	6.0	---	---	---	---	---	14.5	---	---	14.5
4		---	5.5	---	1.0	3.0	---	---	11.0	---	---	---
5		---	7.0	4.0	---	---	8.0	---	---	---	15.0	---
6		---	---	4.0	---	3.0	---	---	---	---	---	---
7		---	---	---	---	---	6.0	---	---	5.0	---	---
8		---	5.0	---	---	---	5.0	10.0	---	---	---	14.0
9		---	---	3.0	---	---	6.0	---	---	---	---	---
10		---	---	---	---	---	6.0	---	17.0	---	---	---
11		---	---	---	3.0	4.0	---	---	---	---	---	---
12		---	---	---	---	---	5.0	---	---	---	13.0	---
13		---	---	---	---	---	6.0	11.0	---	---	---	---
14		---	---	---	4.0	---	---	---	---	6.0	14.0	---
15		---	2.0	5.0	---	---	---	---	---	---	---	---
16		---	---	---	4.0	---	---	---	16.0	---	---	13.0
17		---	2.0	---	4.0	---	---	---	---	9.0	---	---
18		---	---	---	---	---	---	---	---	5.0	---	---
19		---	1.0	---	4.0	---	8.0	---	---	---	---	---
20		---	---	---	---	---	10.0	12.0	---	---	---	---
21		---	---	1.0	---	---	---	---	---	---	---	---
22		---	4.0	---	---	---	---	---	---	---	---	12.0
23		---	---	---	---	---	---	---	12.0	---	18.0	---
24		---	5.0	---	---	---	---	---	---	---	---	---
25		4.0	---	---	5.0	---	---	---	---	---	---	---
26		5.0	5.0	---	5.5	---	7.0	---	---	---	---	---
27		---	---	---	5.0	---	---	---	---	---	---	---
28		---	---	3.0	---	---	---	---	---	7.0	---	---
29		---	5.0	---	5.0	---	---	---	---	---	---	14.0
30		4.0	---	---	---	---	---	10.0	13.0	---	14.0	---
31		---	1.0	---	---	---	---	---	---	---	---	---
MONTH		---	---	---	---	---	---	---	---	---	---	---

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), NOVEMBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1				---	---	---	19	5	.26
2				---	---	---	18	4	.19
3				---	---	---	18	3	.15
4				---	---	---	23	61	3.8
5				---	---	---	33	77	6.9
6				---	---	---	28	25	1.9
7				---	---	---	23	11	.68
8				---	---	---	22	7	.42
9				---	---	---	21	5	.28
10				---	---	---	21	4	.23
11				---	---	---	20	4	.22
12				---	---	---	21	3	.17
13				---	---	---	20	3	.16
14				---	---	---	19	3	.15
15				---	---	---	19	3	.15
16				---	---	---	19	5	.26
17				21	2	.11	18	7	.34
18				20	2	.11	18	7	.34
19				19	2	.10	18	5	.24
20				19	2	.10	18	4	.19
21				19	2	.10	18	4	.19
22				19	2	.10	20	5	.27
23				19	2	.10	19	4	.21
24				19	2	.10	18	4	.19
25				18	2	.10	18	5	.24
26				17	3	.14	18	6	.29
27				18	3	.15	18	6	.29
28				17	3	.14	18	6	.29
29				17	3	.14	18	6	.29
30				17	4	.18	18	7	.34
31				---	---	---	18	10	.49
TOTAL				---	---	---	617	---	20.12

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	18	16	.78	17	4	.18	47	68	8.6
2	19	21	1.1	16	4	.17	43	43	5.0
3	17	12	.55	16	3	.13	39	33	3.5
4	18	7	.34	16	3	.13	35	30	2.8
5	18	7	.34	16	5	.22	34	27	2.5
6	18	5	.24	16	7	.30	32	25	2.2
7	18	4	.19	16	8	.35	32	24	2.1
8	19	5	.26	16	7	.30	32	21	1.8
9	20	8	.43	16	6	.26	32	17	1.5
10	19	8	.41	16	6	.26	32	12	1.0
11	18	8	.39	16	6	.26	30	10	.81
12	18	8	.39	16	6	.26	28	9	.68
13	18	9	.44	17	5	.23	27	9	.66
14	18	9	.44	17	6	.28	27	8	.58
15	18	9	.44	18	9	.44	26	7	.49
16	18	9	.44	27	90	7.0	25	6	.41
17	18	9	.44	23	19	1.2	26	6	.42
18	18	8	.39	21	8	.45	26	7	.49
19	17	8	.37	23	16	.99	25	7	.47
20	17	7	.32	21	13	.74	25	8	.54
21	17	6	.28	20	11	.59	25	8	.54
22	17	6	.28	19	9	.46	24	8	.52
23	17	6	.28	19	8	.41	24	8	.52
24	17	6	.28	18	7	.34	25	13	.88
25	17	6	.28	24	116	7.5	25	9	.61
26	17	5	.23	73	684	142	24	8	.52
27	17	5	.23	54	120	17	24	7	.45
28	17	4	.18	53	100	14	24	7	.45
29	17	4	.18	58	170	27	23	7	.43
30	17	4	.18	---	---	---	23	6	.37
31	16	4	.17	---	---	---	24	14	.91
TOTAL	548	---	11.27	698	---	223.45	888	---	42.75

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), NOVEMBER 1975 TO SEPTEMBER 1976

	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	23	10	.62	35	16	1.5	19	6	.31
2	23	8	.50	35	16	1.5	19	7	.36
3	23	7	.43	34	17	1.6	19	7	.36
4	23	6	.37	33	18	1.6	19	5	.26
5	23	6	.37	33	19	1.7	19	5	.26
6	26	13	.91	33	20	1.8	19	5	.26
7	54	325	81	33	21	1.9	18	5	.24
8	86	227	56	32	23	2.0	18	5	.24
9	65	108	19	32	22	1.9	18	5	.24
10	74	268	64	31	21	1.8	18	5	.24
11	76	237	49	30	20	1.6	18	5	.24
12	65	57	10	29	19	1.5	18	5	.24
13	60	43	7.0	28	18	1.4	17	6	.28
14	56	38	5.7	28	18	1.4	16	6	.26
15	53	34	4.9	27	19	1.4	15	6	.24
16	50'	30	4.1	26	19	1.3	15	6	.24
17	49	26	3.4	25	18	1.2	15	6	.24
18	46	23	2.9	25	19	1.3	14	5	.19
19	43	19	2.2	24	20	1.3	14	5	.19
20	42	17	1.9	24	20	1.3	14	5	.19
21	41	16	1.8	23	20	1.2	14	4	.15
22	40	17	1.8	22	18	1.1	14	4	.15
23	40	19	2.1	22	16	.95	13	4	.14
24	40	21	2.3	21	14	.79	13	4	.14
25	39	22	2.3	21	12	.68	13	4	.14
26	37	21	2.1	20	10	.54	12	4	.13
27	37	20	2.0	20	9	.49	12	4	.13
28	35	19	1.8	20	8	.43	12	4	.13
29	36	16	1.6	20	7	.38	11	4	.12
30	35	15	1.4	20	6	.32	12	4	.13
31	---	---	---	20	6	.32	---	---	---
TOTAL	1340	---	333.50	826	---	38.20	468	---	6.44

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	12	5	.16	11	155	6.0	9.5	5	.13
2	12	4	.13	11	28	.83	9.0	5	.12
3	12	4	.13	11	16	.48	9.0	5	.12
4	12	4	.13	11	15	.45	9.0	5	.12
5	12	3	.10	12	14	.45	8.9	5	.12
6	11	3	.09	13	13	.46	9.0	4	.10
7	12	3	.10	12	12	.39	9.1	4	.10
8	12	3	.10	11	12	.36	8.9	4	.10
9	12	3	.10	11	10	.30	8.8	4	.10
10	11	3	.09	11	10	.30	9.0	4	.10
11	12	3	.10	11	9	.27	9.0	4	.10
12	12	3	.10	10	8	.22	9.9	4	.11
13	11	3	.09	11	11	.33	9.6	4	.10
14	11	3	.09	14	16	.60	9.0	4	.10
15	11	3	.09	16	14	.60	8.8	4	.10
16	11	3	.09	13	9	.32	10	5	.14
17	17	294	22	13	7	.25	11	5	.15
18	13	72	2.6	15	9	.36	10	4	.11
19	12	30	.97	13	9	.32	9.9	4	.11
20	11	20	.59	12	9	.29	9.3	4	.10
21	11	15	.45	11	9	.27	9.1	3	.07
22	11	10	.30	12	10	.32	9.2	3	.07
23	11	8	.24	12	8	.26	9.2	3	.07
24	11	6	.18	11	8	.24	9.0	3	.07
25	10	5	.14	11	7	.21	8.5	3	.07
26	10	4	.11	11	7	.21	8.6	3	.07
27	10	4	.11	10	6	.16	9.2	5	.12
28	10	4	.11	10	6	.16	16	20	.86
29	10	4	.11	10	5	.14	12	8	.26
30	10	4	.11	10	5	.14	11	7	.21
31	10	4	.11	9.5	5	.13	---	---	---
TOTAL	353	---	29.82	359.5	---	15.82	288.5	---	4.10
YEAR	6645.0		727.14						

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, NOVEMBER 1975 TO SEPTEMBER 1976

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
NOVEMBER ... 1/	259.00	1.67	0	2
DECEMBER ...	617.00	20.12	8	28
JANUARY 1976	548.00	11.27	0	11
FEBRUARY ...	698.00	223.45	41	264
MARCH	888.00	42.75	64	107
APRIL	1340.00	333.50	169	502
MAY	826.00	38.20	48	86
JUNE	468.00	6.44	0	6
JULY	353.00	29.82	0	30
AUGUST	359.50	15.82	0	16
SEPTEMBER ..	288.50	4.10	0	4
TOTAL	6645.00	727.14	330	1056

1/ Station started Nov. 17.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, NOVEMBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
DEC											
04...	1500	7.0	26	140	9.8	--	--	--	--	--	--
05...	0900	9.0	31	75	6.3	--	--	--	--	--	--
05...	1500	7.0	37	103	10	--	--	--	--	--	--
FEB											
16...	1030	4.0	31	185	15	--	--	--	--	--	--
26...	0915	5.5	95	1080	277	16	22	27	36	46	55
26...	0930	6.0	97	1390	364	13	17	22	27	34	--
26...	1030	5.0	100	986	266	15	20	25	31	38	--
27...	0930	5.5	55	105	16	--	--	--	--	--	55
APR											
07...	1400	5.8	42	246	28	--	--	--	--	--	--
07...	1730	6.0	92	750	186	12	16	21	26	32	--
08...	0945	6.0	100	171	46	--	--	--	--	--	--
10...	1730	6.0	87	640	150	--	--	--	--	--	--
JUL											
17...	1930	9.0	30	1370	111	39	54	69	83	92	--
AUG											
01...	1730	15.0	16	804	35	45	60	78	90	99	--

DATE	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. 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...	--	--	--	--	89	93	97	100	--	--
05...	--	--	--	--	61	67	76	95	100	--
05...	--	--	--	--	43	51	60	74	84	100
FEB										
16...	--	--	--	--	79	83	89	96	100	--
26...	65	79	93	100	--	--	--	--	--	--
26...	--	--	--	--	38	48	61	80	93	97
26...	--	--	--	--	42	54	66	84	96	100
27...	63	77	95	100	--	--	--	--	--	--
APR										
07...	--	--	--	--	43	44	56	86	98	100
07...	--	--	--	--	37	46	62	85	98	100
08...	--	--	--	--	34	44	56	76	92	100
10...	--	--	--	--	16	20	30	56	89	100
JUL										
17...	--	--	--	--	96	97	98	100	--	--
AUG										
01...	--	--	--	--	99	100	--	--	--	--

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, NOVEMBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (CFS)	STREAM WIDTH (FT)	SEDIMENT BEDLOAD DISCHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM
DEC							
05...	0930	7.0	5	32	29	2.8	--
FEB							
26...	1100	5.5	5	100	32	21	1
JUN							
03...	1430	14.5	--	20	--	.00	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM
DEC							
05...	0	5	26	58	89	99	100
FEB							
26...	8	13	47	73	91	99	100
JUN							
03...	--	--	--	--	--	--	--

11526500 NORTH FORK TRINITY RIVER AT HELENA, CA

LOCATION.--Lat 40°46'55", long 123°07'38", in SW¼SW¼ sec.21, T.34 N., R.11 W., Trinity County, on right bank 500 ft (152 m) downstream from East Fork of North Fork Trinity River, 0.6 mi (1.0 km) north of Helena, 1.0 mi (1.6 km) upstream from mouth, and 6 mi (10 km) northwest of Junction City.

DRAINAGE AREA.--151 mi^2 (391 km^2).

PERIOD OF RECORD.--August 1911 to September 1913, January 1957 to current year.

REVISED RECORDS.--WSP 1565: 1912-13.

GAGE.--Water-stage recorder. Altitude of gage is 1,380 ft (421 m), from topographic map. August 1911 to September 1913, at site 0.8 mi (1.3 km) downstream at different datum.

REMARKS.--No known regulation or diversion above station.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by the Geological Survey.

AVERAGE DISCHARGE.--21 years, 452 ft^3/s (12.80 m^3/s), 327,500 acre-ft/yr (404 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,800 ft^3/s (1,010 m^3/s) Dec. 22, 1964, gage height, 27.93 ft (8.513 m) from floodmarks, from rating curve extended above 9,000 ft^3/s (255 m^3/s) on basis of slope-area measurement of maximum flow; minimum daily, 7.5 ft^3/s (0.21 m^3/s) Sept. 26, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,020 ft^3/s (85.5 m^3/s) Nov. 15, gage height, 11.85 ft (3.612 m); minimum daily, 27 ft^3/s (0.76 m^3/s) Oct. 1-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	280	221	195	133	1190	337	561	183	100	41	40
2	27	233	241	185	129	890	322	573	172	91	51	38
3	27	218	212	176	126	685	310	516	163	94	46	37
4	27	183	570	169	122	555	306	538	156	100	53	36
5	27	155	1650	185	114	468	345	524	159	109	65	35
6	28	152	1570	165	113	420	352	509	155	112	70	34
7	31	374	951	161	110	398	391	512	162	100	63	33
8	30	312	687	311	107	380	490	643	154	97	57	33
9	37	240	536	448	104	375	467	691	149	98	52	32
10	82	285	450	390	98	396	497	677	147	89	46	31
11	61	242	393	358	95	426	509	544	142	86	42	30
12	49	215	385	346	94	405	468	525	146	90	40	30
13	43	226	335	327	112	391	436	679	170	78	41	30
14	41	293	301	308	126	377	416	618	155	72	81	30
15	40	2240	279	303	119	378	422	450	171	71	198	29
16	40	1270	264	316	324	416	393	421	205	71	116	39
17	40	704	247	322	419	526	372	392	202	95	92	49
18	57	484	229	305	461	602	372	354	208	130	84	39
19	52	385	216	285	450	507	380	343	238	90	77	36
20	49	333	203	263	406	438	450	302	220	71	71	33
21	50	284	200	243	356	409	472	292	170	65	67	32
22	64	254	212	228	312	403	459	295	151	60	65	31
23	53	225	198	217	285	380	481	292	140	57	63	30
24	47	207	199	205	262	386	522	286	141	54	61	30
25	665	198	195	191	362	367	536	269	160	52	59	29
26	906	191	213	179	1740	349	460	271	146	49	57	28
27	322	189	242	169	1620	331	421	299	127	47	54	28
28	231	173	249	160	1880	316	399	269	123	46	50	29
29	185	158	253	152	1440	298	383	224	123	45	46	38
30	569	159	236	145	---	305	427	204	114	44	44	35
31	385	---	211	137	---	356	---	201	---	42	42	---
TOTAL	4292	10862	12348	7544	12019	14123	12595	13274	4852	2405	1994	1004
MEAN	138	362	398	243	414	456	420	428	162	77.6	64.3	33.5
MAX	906	2240	1650	448	1880	1190	536	691	238	130	198	49
MIN	27	152	195	137	94	298	306	201	114	42	40	28
AC-FT	8510	21540	24490	14960	23840	28010	24980	26330	9620	4770	3960	1990

CAL YR 1975 TOTAL 198103 MEAN 543 MAX 2550 MIN 27 AC-FT 392900
WTR YR 1976 TOTAL 97312 MEAN 266 MAX 2240 MIN 27 AC-FT 193000

11527000 TRINITY RIVER NEAR BURNT RANCH, CA

LOCATION.--Lat 40°47'20", long 123°26'20", in S½ sec.19, T.5 N., R.7 E., Trinity County, Trinity National Forest, on left bank 500 ft (152 m) upstream from Cedar Flat Creek, 700 ft (213 m) upstream from highway bridge at Cedar Flat, and 2.3 mi (3.7 km) southeast of town of Burnt Ranch.

DRAINAGE AREA.--1,439 mi^2 (3,727 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1931 to September 1940, October 1956 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 944.05 ft (287.746 m) above mean sea level. Oct. 1, 1931, to Jan. 19, 1940, at site 2 mi (3 km) upstream at different datum.

REMARKS.--Records good. Flow regulated by Clair Engle Lake (station 11525400) 64 mi (103 km) upstream since November 1960. Small diversions above station for mining and irrigation.

AVERAGE DISCHARGE.--13 years (water years 1932-40, 1957-60), 2,785 ft^3/s (78.87 m^3/s), 2,016,000 acre-ft/yr (2.49 km^3/yr); 16 years (water years 1961-76), 1,694 ft^3/s (47.97 m^3/s), 1,227,000 acre-ft/yr (1.51 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81,500 ft^3/s (2,310 m^3/s) Feb. 25, 1958, gage height, 30.50 ft (9.296 m), from rating curve extended above 40,000 ft^3/s (1,130 m^3/s) on basis of slope-area measurement at gage height 43.2 ft (13.17 m); minimum, 82 ft^3/s (2.32 m^3/s) Aug. 31, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1955, reached a stage of 43.2 ft (13.17 m) from floodmarks, discharge, 172,000 ft^3/s (4,870 m^3/s), on basis of slope-area measurement of maximum flow).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,560 ft^3/s (157 m^3/s) Feb. 26, gage height, 8.92 ft (2.719 m); minimum daily, 252 ft^3/s (7.14 m^3/s) Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	373	1020	757	720	617	3810	1120	1390	730	450	260	252
2	371	905	847	688	601	2970	1060	1540	686	420	265	260
3	370	861	771	668	591	2400	1030	1430	659	411	286	292
4	370	820	850	660	584	2050	1010	1430	640	420	291	289
5	370	762	2830	684	565	1810	1060	1430	629	445	312	283
6	370	729	3440	679	541	1640	1080	1430	636	458	356	279
7	382	970	2220	645	547	1550	1090	1380	637	441	353	277
8	392	1090	1720	750	545	1490	1500	1550	642	415	330	276
9	407	889	1470	1180	541	1440	1550	1720	629	410	314	276
10	617	993	1300	1080	530	1440	1470	1720	626	405	296	274
11	588	1020	1170	1000	519	1460	1670	1550	597	387	281	267
12	469	878	1170	983	514	1410	1570	1400	591	382	273	265
13	430	854	1060	947	527	1360	1450	1570	626	376	265	267
14	413	890	974	906	612	1320	1360	1690	626	358	304	266
15	409	3390	915	883	631	1300	1340	1350	621	351	669	262
16	421	3020	883	900	896	1320	1290	1220	682	348	694	289
17	447	1800	854	929	1360	1460	1230	1190	700	364	589	332
18	472	1390	816	900	1280	1600	1210	1100	688	520	635	318
19	497	1170	785	854	1320	1520	1190	1070	747	438	664	312
20	488	1060	757	815	1280	1360	1290	996	730	368	519	303
21	486	957	738	771	1190	1300	1390	943	649	339	433	294
22	495	887	794	740	1100	1270	1380	938	583	324	381	290
23	512	838	760	1100	1030	1230	1410	938	551	314	398	288
24	487	790	744	1380	981	1220	1440	926	543	302	366	287
25	738	766	733	1170	1080	1210	1510	898	571	292	322	285
26	2610	754	732	1010	3670	1160	1390	880	563	282	305	281
27	1300	748	808	907	4250	1120	1300	929	515	279	295	275
28	960	725	798	862	4760	1090	1240	904	494	276	285	278
29	819	694	859	797	4200	1050	1190	818	491	273	273	319
30	1260	677	816	735	---	1040	1220	765	477	267	269	326
31	1300	---	764	667	---	1110	---	749	---	264	256	---
TOTAL	19623	32347	34135	27010	36862	47510	39040	37844	18559	11379	11539	8562
MEAN	633	1078	1101	871	1271	1533	1301	1221	619	367	372	285
MAX	2610	3390	3440	1380	4760	3810	1670	1720	747	520	694	332
MIN	370	677	732	645	514	1040	1010	749	477	264	256	252
AC-FT	38920	64160	67710	53570	73120	94240	77440	75060	36810	22570	22890	16980

CAL YR 1975 TOTAL 713570 MEAN 1955 MAX 7780 MIN 319 AC-FT 1415000
WTR YR 1976 TOTAL 324410 MEAN 886 MAX 4760 MIN 252 AC-FT 643500

11527000 TRINITY RIVER NEAR BURNT RANCH, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959 to current year.
CHEMICAL ANALYSES: Water years 1959-66.
WATER TEMPERATURES: Water years 1962-64, 1967, 1969 to current year.
SEDIMENT RECORDS: Water year 1968.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1961 to September 1964, October 1966 to September 1967, October 1968 to current year.

INSTRUMENTATION.--Temperature recorder since October 1961.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES (water years 1963-64, 1967, 1969-76): Maximum, 27.0°C Aug. 17-19, 24, 1967; minimum (water years 1963, 1967, 1969-76), 0.0°C Dec. 7-11, 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 24.5°C July 14, 15, 26-28; minimum, 3.0°C Jan. 2.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	16.5	10.5	9.5	7.5	6.5	4.0	3.5	---	---	7.5	7.0
2	17.5	16.5	10.5	10.0	8.0	7.0	3.5	3.0	---	---	7.5	6.5
3	16.5	15.5	11.0	10.0	8.0	8.0	4.5	3.5	---	---	6.5	6.0
4	16.5	15.5	11.0	10.5	8.0	8.0	5.0	4.5	---	---	6.5	6.0
5	17.0	15.5	11.0	10.5	8.0	8.0	6.0	5.0	---	---	6.5	6.0
6	16.5	14.0	10.5	10.0	8.0	8.0	6.0	5.5	---	---	7.5	6.0
7	14.0	13.0	10.0	9.5	8.0	8.0	6.5	6.0	---	---	7.0	7.0
8	13.5	12.5	9.5	8.5	8.0	8.0	6.5	6.5	6.0	5.5	8.5	7.0
9	13.0	11.5	8.5	8.0	8.0	8.0	6.5	6.0	5.5	4.5	9.0	8.0
10	12.5	11.5	8.0	8.0	8.0	7.5	6.0	6.0	4.5	3.5	9.0	7.5
11	13.0	12.0	8.0	7.5	7.5	7.5	6.5	6.0	4.5	4.0	9.0	7.5
12	14.0	12.5	7.5	7.5	7.5	7.0	6.5	6.5	5.0	3.5	8.5	6.5
13	13.5	12.5	7.5	7.0	7.0	6.0	6.5	6.0	6.5	4.0	8.0	6.5
14	13.5	12.5	8.0	7.5	6.0	5.5	6.5	5.5	6.0	5.0	9.0	7.5
15	13.5	12.5	8.0	8.0	5.5	5.0	7.0	6.5	6.0	4.5	9.5	8.5
16	13.5	12.5	8.0	7.5	5.5	5.0	7.0	7.0	6.5	4.5	10.0	9.0
17	13.5	12.5	7.5	6.5	5.5	5.5	7.0	6.5	7.5	6.5	10.5	9.5
18	13.5	13.0	6.5	5.5	6.0	5.0	6.5	6.0	8.0	7.5	10.5	7.5
19	14.0	13.0	6.5	5.5	6.0	6.0	6.0	5.5	8.0	7.0	8.0	7.0
20	14.0	13.5	6.5	6.0	6.0	6.0	5.5	5.0	7.5	7.5	9.0	7.0
21	14.0	13.5	6.5	6.5	6.5	6.0	5.0	5.0	8.0	7.5	10.0	8.0
22	13.5	11.5	7.0	6.5	6.5	6.5	---	---	8.0	8.0	9.0	8.0
23	11.5	10.5	7.5	7.0	7.0	6.5	---	---	8.0	7.5	8.0	7.5
24	11.5	10.0	7.5	7.5	7.5	7.0	---	---	8.0	7.5	8.0	7.0
25	11.5	11.0	7.5	7.5	7.5	7.5	---	---	7.5	7.5	9.0	7.0
26	11.0	10.0	7.5	7.0	7.5	7.0	---	---	7.5	6.5	7.5	7.0
27	10.5	10.0	7.5	7.0	7.0	7.0	---	---	8.0	7.5	7.5	6.5
28	10.5	10.0	7.0	6.0	7.0	7.0	---	---	8.0	7.5	9.0	7.5
29	10.5	10.0	7.0	6.5	7.0	7.0	---	---	7.5	7.0	10.5	7.5
30	10.5	10.5	6.5	5.5	7.0	5.5	---	---	---	---	11.5	8.5
31	10.5	10.5	---	---	5.5	4.0	---	---	---	---	10.5	7.5
MONTH	18.0	10.0	11.0	5.5	8.0	4.0	---	---	---	---	11.5	6.0

11527000 TRINITY RIVER NEAR BURNT RANCH, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	6.5	14.0	12.5	16.0	13.5	21.0	18.5	23.0	22.0	22.0	20.5
2	9.5	7.0	13.5	12.0	16.0	13.0	21.5	19.0	22.5	22.0	22.0	20.5
3	10.0	8.0	14.5	11.5	16.5	13.5	21.5	19.5	22.5	22.0	22.0	20.0
4	11.5	8.5	14.0	12.5	17.5	13.5	22.5	21.0	22.0	21.5	22.0	20.0
5	10.0	9.0	14.0	12.5	17.5	14.5	23.0	21.0	22.0	21.5	22.0	20.5
6	9.0	8.5	15.0	12.0	17.5	15.0	22.5	21.0	21.5	21.0	21.0	20.0
7	9.0	8.5	16.5	13.0	17.0	15.5	22.0	21.0	22.5	21.5	21.0	19.5
8	9.0	8.0	16.5	15.0	17.0	14.5	22.5	21.0	22.5	21.5	21.5	19.0
9	8.0	7.5	16.5	15.0	17.0	16.0	23.0	22.0	23.5	21.5	21.0	19.5
10	8.5	8.0	16.0	15.0	18.0	16.0	23.0	21.0	23.5	22.0	20.5	19.5
11	8.0	7.0	16.0	14.0	17.5	16.5	22.5	21.5	23.5	22.0	20.5	19.5
12	9.0	7.0	17.5	14.0	18.5	17.0	23.0	21.5	23.5	22.0	20.5	18.5
13	10.0	8.0	17.0	15.5	19.0	16.0	23.0	21.5	22.5	21.5	20.5	18.5
14	10.5	8.5	16.0	14.5	20.0	17.0	24.5	22.5	21.5	21.0	19.5	19.0
15	10.0	8.0	17.0	14.0	20.0	18.0	24.5	23.0	21.0	20.0	19.5	18.5
16	9.0	7.0	16.0	14.5	20.0	18.0	23.5	23.0	20.0	19.5	19.5	19.0
17	8.5	8.0	15.5	13.5	20.5	18.0	23.5	23.0	20.0	19.5	19.5	18.5
18	11.0	9.0	15.5	12.5	20.5	19.0	24.0	23.0	20.0	19.5	20.0	18.5
19	12.5	9.0	15.5	12.5	21.0	19.5	23.5	22.5	21.5	19.5	19.0	18.5
20	12.5	10.5	16.5	13.0	20.0	19.0	23.5	22.0	22.5	20.5	19.5	18.0
21	11.5	10.5	17.0	14.0	19.5	18.5	23.5	21.5	22.5	21.0	19.0	18.0
22	12.5	10.5	17.0	14.5	20.0	18.0	24.0	22.0	22.5	21.5	19.0	18.0
23	12.0	11.0	16.5	14.0	20.5	18.0	24.0	22.5	21.5	21.5	19.0	18.0
24	12.5	11.5	16.5	14.5	21.5	19.5	24.0	22.5	22.0	19.5	19.5	18.0
25	12.0	10.0	17.0	15.5	21.5	19.5	24.0	22.5	21.5	20.5	19.5	18.0
26	12.0	9.0	18.0	15.5	21.0	19.0	24.5	22.5	21.5	19.5	19.0	18.0
27	11.5	9.5	17.0	15.0	21.5	19.0	24.5	22.5	22.0	19.5	19.0	18.5
28	12.0	10.5	16.0	14.5	21.5	19.5	24.5	22.5	22.0	20.0	19.0	18.0
29	13.5	10.5	15.0	13.0	21.5	20.0	24.0	22.5	22.0	20.0	19.5	18.0
30	15.0	12.0	15.0	14.5	20.5	19.5	23.5	22.0	22.0	20.5	20.5	19.0
31	---	---	15.5	14.0	---	---	23.5	22.0	22.0	20.5	---	---
MONTH	15.0	6.5	18.0	11.5	21.5	13.0	24.5	18.5	23.5	19.5	22.0	18.0

11528700 SOUTH FORK TRINITY RIVER BELOW HYAMPOM, CA

LOCATION.--Lat 40°39'00", long 123°29'35", in NW¼SW¼ sec.10, T.3 N., R.6 E., Trinity County, Trinity National Forest, on left bank 0.3 mi (0.5 km) downstream from Big Creek, 3.0 mi (4.8 km) northeast of Hyampom, and 3.5 mi (5.6 km) downstream from Hayfork Creek.

DRAINAGE AREA.--764 mi^2 (1,979 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 1,211.37 ft (369.226 m) above mean sea level.

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

AVERAGE DISCHARGE.--11 years, 1,599 ft^3/s (45.28 m^3/s), 1,158,000 acre-ft/yr (1.43 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 69,300 ft^3/s (1,960 m^3/s) Jan. 16, 1974, gage height, 26.68 ft (8.132 m), from rating curve extended above 23,000 ft^3/s (651 m^3/s) on basis of flood-routing study at gage height 30.45 ft (9.281 m); minimum daily, 38 ft^3/s (1.08 m^3/s) Sept. 14, 15, 1973.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 30.45 ft (9.281 m) from floodmarks, discharge, 88,000 ft^3/s (2,490 m^3/s) on basis of flood-routing study.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,700 ft^3/s (360 m^3/s) Feb. 26 (1415 hrs), gage height, 12.94 ft (3.944 m), peak above base of 8,600 ft^3/s (244 m^3/s); minimum daily, 58 ft^3/s (1.64 m^3/s) Sept. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	545	469	456	380	6100	994	785	344	148	104	82
2	81	427	461	427	373	4450	967	762	333	145	109	78
3	79	362	440	436	365	3470	954	742	316	139	119	75
4	79	322	694	427	358	2770	928	722	311	133	122	74
5	78	294	1780	452	336	2350	902	701	305	130	111	72
6	79	281	2390	452	311	2080	908	682	289	127	101	68
7	83	440	1580	419	326	1930	994	669	284	121	90	67
8	91	440	1280	589	326	1810	1460	655	289	118	84	66
9	114	384	1100	1160	322	1710	1480	649	289	118	83	66
10	347	550	960	1020	311	1620	1470	636	289	118	105	64
11	351	635	858	902	298	1530	1630	615	289	115	144	64
12	244	505	870	864	291	1420	1510	593	273	110	157	62
13	197	461	779	815	318	1340	1470	579	258	108	155	61
14	172	461	694	756	384	1240	1450	567	248	106	171	59
15	156	1720	640	710	411	1190	1430	547	239	105	166	58
16	147	2220	604	678	889	1160	1360	531	230	103	147	61
17	141	1330	579	651	1070	1140	1300	506	221	117	129	72
18	145	994	545	630	934	1170	1270	492	212	137	119	83
19	147	809	515	599	1020	1170	1200	481	203	127	120	85
20	143	733	491	570	987	1070	1160	467	195	114	121	80
21	139	651	487	550	864	1040	1130	457	195	107	120	76
22	139	589	570	530	803	1050	1100	439	187	100	120	74
23	135	560	560	510	744	1040	1040	427	184	95	120	69
24	133	525	530	496	694	1090	1010	418	180	91	119	68
25	377	501	515	474	1130	1170	982	406	172	85	113	65
26	1250	482	545	456	9160	1120	938	392	152	77	106	64
27	791	478	565	440	6740	1100	901	380	148	75	102	63
28	555	465	540	427	7540	1070	866	372	148	73	98	64
29	444	431	525	415	7560	1030	841	365	148	74	92	66
30	889	419	505	403	---	994	810	362	148	81	89	66
31	845	---	487	392	---	1000	---	358	---	98	86	---
TOTAL	8652	19014	23558	18106	45245	52424	34455	16757	7079	3395	3622	2072
MEAN	279	634	760	584	1560	1691	1149	541	236	110	117	69.1
MAX	1250	2220	2390	1160	9160	6100	1630	785	344	148	171	85
MIN	78	281	440	392	291	994	810	358	148	73	83	58
AC-FT	17160	37710	46730	35910	89740	104000	68340	33240	14040	6730	7180	4110

CAL YR 1975 TOTAL 634059 MEAN 1737 MAX 22900 MIN 78 AC-FT 1258000
WTR YR 1976 TOTAL 234379 MEAN 640 MAX 9160 MIN 58 AC-FT 464900

11528700 SOUTH FORK TRINITY RIVER BELOW HYAMPOM, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.
WATER TEMPERATURES: Water years 1966 to current year.
SEDIMENT RECORDS: Water years 1967-70.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1965 to current year.
SEDIMENT RECORDS: October 1966 to September 1970.

INSTRUMENTATION.--Temperature recorder since October 1965.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 29.0°C June 30, July 1, 3, 1967, Aug. 1, 2, 1968; minimum, 0.0°C on several days in 1965, 1967-68, 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 26.5°C July 15; minimum, 1.5°C Feb. 6.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	12.0	10.0	9.5	7.0	4.5	3.0	8.0	5.0	6.0	5.0
2	---	---	12.5	10.0	9.5	8.5	4.0	2.0	8.0	5.0	5.0	4.0
3	---	---	14.0	11.0	9.0	8.5	5.0	3.0	8.0	5.0	6.0	4.0
4	---	---	14.0	10.5	8.5	8.0	5.5	4.5	6.0	3.0	6.0	4.5
5	---	---	12.0	10.5	9.0	8.5	7.0	5.5	5.5	2.0	6.5	4.5
6	---	---	11.5	10.5	9.5	9.0	7.0	5.5	6.0	1.5	7.0	4.0
7	---	---	11.5	10.5	9.5	8.5	7.5	6.0	6.5	2.0	6.5	5.0
8	---	---	11.5	9.0	8.5	8.0	7.5	7.5	5.5	3.0	9.0	6.0
9	---	---	9.0	8.0	8.5	7.5	7.5	6.5	7.5	4.0	9.0	6.0
10	---	---	9.0	8.0	8.0	7.5	7.0	6.0	7.0	2.5	9.5	6.0
11	16.0	13.5	9.0	7.5	8.0	7.5	7.0	6.0	7.0	2.0	9.0	6.5
12	17.5	14.0	9.0	6.5	7.5	6.5	7.0	6.5	9.0	5.0	9.0	5.0
13	18.0	14.0	9.5	6.5	6.5	5.0	7.0	6.0	7.5	6.0	8.5	5.0
14	17.5	14.5	9.0	7.5	6.0	4.5	---	---	6.5	5.5	9.5	6.0
15	18.0	14.5	9.5	9.0	5.0	4.0	---	---	6.5	5.5	10.5	7.0
16	18.0	14.5	9.0	7.5	5.0	4.0	---	---	8.0	6.0	10.5	7.5
17	17.0	14.5	7.5	6.0	5.5	4.5	---	---	8.0	6.5	12.5	8.5
18	17.5	15.5	8.0	4.5	5.0	4.0	---	---	8.5	6.5	10.0	6.5
19	19.0	15.0	6.5	4.5	5.0	3.5	---	---	7.5	5.5	9.0	6.0
20	19.0	15.5	7.0	5.0	5.0	3.0	---	---	8.0	5.5	10.0	5.5
21	17.5	15.0	7.5	5.5	4.5	3.5	---	---	7.5	4.5	10.5	6.5
22	16.0	13.5	7.5	6.0	5.5	4.5	---	---	8.0	5.5	9.5	7.0
23	15.5	12.5	8.5	7.5	7.0	5.5	6.5	5.0	7.5	5.5	9.0	6.5
24	16.0	12.5	8.5	7.5	7.5	6.5	7.0	5.5	7.0	5.5	9.0	6.5
25	14.5	12.0	8.0	7.0	7.5	6.5	6.0	4.0	6.5	6.0	9.5	6.0
26	12.0	11.0	7.5	6.5	8.0	7.0	6.0	4.0	7.5	6.5	8.0	6.5
27	11.5	10.0	8.0	7.0	8.0	7.5	5.5	4.0	7.5	7.0	8.0	5.5
28	12.5	10.0	7.0	5.0	8.0	7.0	6.0	3.5	7.5	7.0	10.0	6.5
29	12.0	9.0	6.0	4.5	8.0	7.0	6.0	3.5	7.0	5.5	11.0	6.5
30	11.5	10.5	7.0	6.0	8.0	6.0	7.0	3.5	---	---	12.5	7.0
31	12.0	10.0	---	---	6.0	4.0	7.5	4.0	---	---	10.0	7.0
MONTH	---	---	14.0	4.5	9.5	3.0	---	---	9.0	1.5	12.5	4.0

11528700 SOUTH FORK TRINITY RIVER BELOW HYAMPOM, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	5.5	15.0	11.0	17.5	12.0	21.0	14.5	21.5	19.0	24.0	18.0
2	11.0	5.0	15.5	10.5	18.0	11.5	22.5	14.5	23.5	18.5	23.5	17.0
3	11.5	7.0	16.5	9.5	17.5	11.0	21.0	16.0	22.5	19.0	24.0	17.5
4	13.5	8.0	15.5	10.5	18.5	11.0	23.5	17.0	22.0	18.5	23.5	17.5
5	10.5	9.5	16.0	11.5	19.0	12.0	24.5	17.5	20.5	18.5	23.0	18.5
6	9.5	8.5	16.5	10.5	19.0	13.0	22.5	17.5	20.5	18.0	22.0	18.0
7	9.0	8.0	18.0	11.0	19.0	14.0	22.5	17.5	22.5	18.0	22.5	16.5
8	9.5	7.5	19.0	12.5	19.5	13.5	24.0	18.0	23.0	19.0	24.0	17.0
9	8.5	7.0	19.5	13.0	15.5	14.5	23.5	18.5	24.5	17.5	24.0	17.5
10	8.5	7.5	18.5	13.0	19.5	13.5	23.5	17.5	25.0	18.5	23.0	17.5
11	8.5	6.5	18.0	12.0	17.5	14.0	20.5	17.5	24.5	17.5	23.5	17.5
12	9.0	6.5	20.0	12.5	20.5	14.0	23.5	17.5	24.5	17.5	23.0	17.0
13	11.5	7.5	20.5	14.0	20.5	13.5	23.5	17.0	19.0	17.5	22.5	16.5
14	12.0	7.5	19.5	13.0	21.5	13.5	25.5	17.5	21.0	17.5	22.0	17.0
15	10.0	6.5	20.0	12.5	22.0	14.5	26.5	18.5	17.5	17.0	21.5	16.0
16	10.5	6.0	18.5	12.5	22.5	16.0	23.0	18.5	18.5	16.5	19.0	17.5
17	10.5	7.0	17.5	11.5	24.5	15.5	23.5	19.5	16.5	16.0	22.0	17.5
18	12.5	7.0	17.5	11.0	24.5	17.0	25.5	19.0	18.0	16.0	22.0	17.5
19	14.0	7.5	17.0	11.0	24.5	17.5	23.5	18.5	21.5	16.5	22.5	17.5
20	14.5	9.5	18.0	10.5	22.5	17.0	23.5	17.5	23.5	17.5	22.0	17.0
21	12.0	9.5	18.5	11.5	21.0	16.0	22.5	17.0	24.5	18.0	21.0	17.0
22	14.0	9.5	18.5	12.0	22.0	16.0	24.5	17.0	22.5	19.0	21.0	16.5
23	12.0	9.5	18.5	12.0	22.5	15.5	24.5	18.5	24.0	18.0	21.0	16.0
24	13.5	10.0	18.0	12.0	23.5	16.5	24.5	18.5	24.0	18.0	21.5	16.5
25	13.0	8.5	19.0	13.0	22.0	16.0	25.5	18.5	21.5	17.5	21.5	16.5
26	13.5	7.5	20.5	13.0	22.5	15.0	25.5	19.5	21.5	16.0	20.5	16.0
27	14.0	8.0	18.5	14.0	23.5	15.0	25.5	19.5	23.0	16.5	19.0	17.5
28	14.0	8.5	18.0	12.5	22.5	15.5	26.0	19.0	24.0	17.5	21.0	17.0
29	14.5	8.5	16.0	11.0	22.0	17.0	24.5	20.0	24.5	18.0	24.5	18.0
30	16.5	9.5	15.0	13.0	19.0	15.0	23.5	18.5	24.5	18.0	24.5	18.0
31	---	---	18.0	12.5	---	---	24.5	18.5	24.5	18.0	---	---
MONTH	16.5	5.0	20.5	9.5	24.5	11.0	26.5	14.5	25.0	16.0	24.5	16.0

11530000 TRINITY RIVER AT HOOPA, CA

LOCATION.--Lat 41°03'00", long 123°40'15", in SE¼NW¼ sec.25, T.8 N., R.4 E., Humboldt County, in Hoopa Valley Indian Reservation, on left bank at Hoopa, 0.4 mi (0.6 km) upstream from Supply Creek.

DRAINAGE AREA.--2,854 mi^2 (7,392 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1911 to January 1914, October 1916 to September 1918, October 1931 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Published as "near Hoopa" 1931-60.

REVISED RECORDS.--WSP 1565: 1913.

GAGE.--Water-stage recorder. Datum of gage is 274.82 ft (83.765 m) above mean sea level. Prior to October 1931, nonrecording gage at site 0.4 mi (0.6 km) upstream at different datum. October 1931 to Dec. 22, 1964, water-stage recorder at site 2.5 mi (4.0 km) upstream at datum 31.67 ft (9.653 m) higher.

REMARKS.--Records good. Flow regulated by Clair Engle Lake (station 11525400) 84 mi (135 km) upstream since November 1960. Small diversions above station for mining and irrigation.

AVERAGE DISCHARGE (unadjusted).--49 years (water years 1912-13, 1917-18, 1932-76), 5,407 ft^3/s (153.1 m^3/s), 3,917,000 acre-ft/yr (4.83 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 231,000 ft^3/s (6,540 m^3/s) Dec. 22, 1964, gage height, 57.0 ft (17.37 m) present site and datum, from floodmarks; minimum, 162 ft^3/s (4.59 m^3/s) Oct. 4, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 32,000 ft^3/s (906 m^3/s) Feb. 26 (2115 hrs), gage height, 26.71 ft (8.141 m)', peak above base of 22,000 ft^3/s (623 m^3/s); minimum daily, 491 ft^3/s (13.9 m^3/s) Sept. 2, 8-15, 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	582	2700	2550	2010	1850	20800	3920	3380	1750	925	515	501
2	582	2200	2640	1900	1790	14500	3690	3680	1650	918	510	491
3	582	1920	2380	1840	1750	10900	3570	3560	1580	900	546	510
4	582	1710	3000	1850	1720	8810	3440	3470	1540	890	593	526
5	582	1550	9950	2000	1660	7450	3470	3400	1490	880	615	515
6	584	1500	14400	2090	1570	6450	3430	3370	1470	877	686	506
7	616	2520	8250	1960	1560	5800	3720	3260	1450	852	714	496
8	640	2950	6100	3060	1580	5370	5340	3390	1460	813	686	491
9	664	2350	4940	5790	1540	5140	5510	3670	1450	796	642	491
10	1010	2860	4160	5020	1500	4980	5310	3690	1470	791	609	491
11	1540	3110	3690	4190	1450	4860	5710	3430	1420	774	571	491
12	1110	2550	3700	3930	1430	4600	5420	3140	1380	774	541	491
13	906	2270	3390	3680	1510	4250	5080	3230	1360	769	531	491
14	823	2260	3070	3540	1780	4210	4730	3430	1370	730	615	491
15	781	7830	2780	3440	1900	4070	4560	3010	1310	708	883	491
16	763	11500	2620	3370	3920	4050	4300	2710	1320	697	1200	501
17	775	5890	2490	3350	5790	4330	4130	2600	1350	703	1070	571
18	829	4200	2350	3260	5400	4790	4070	2490	1320	780	1030	588
19	848	3400	2230	3060	5130	4920	3890	2380	1320	864	1120	571
20	836	3040	2120	2900	4650	4280	3920	2290	1320	758	990	565
21	817	2720	2060	2750	4020	4010	4070	2170	1260	697	852	546
22	836	2470	2300	2620	3720	4030	4070	2120	1170	659	758	536
23	867	2330	2220	2640	3420	4100	4010	2090	1100	637	719	526
24	842	2180	2120	3020	3190	4260	4030	2060	1070	615	725	520
25	2080	2070	2070	2830	4040	4800	4130	2030	1060	599	681	515
26	8320	2010	2100	2580	19600	4410	3850	1950	1060	576	637	506
27	4400	2020	2320	2380	24700	4180	3560	1940	1020	560	609	496
28	2960	1910	2230	2280	28300	4020	3370	1940	960	546	588	491
29	2180	1780	2240	2170	23800	3860	3230	1850	942	536	560	510
30	3000	1730	2220	2060	---	3750	3190	1790	942	526	541	565
31	4200	---	2120	1950	---	3940	---	1770	---	520	526	---
TOTAL	46137	89530	110810	89520	164270	179920	124720	85290	39364	22670	21863	15480
MEAN	1488	2984	3575	2888	5664	5804	4157	2751	1312	731	705	516
MAX	8320	11500	14400	5790	28300	20800	5710	3690	1750	925	1200	588
MIN	582	1500	2060	1840	1430	3750	3190	1770	942	520	510	491
AC-FT	91510	177600	219800	177600	325800	356900	247400	169200	78080	44970	43370	30700

CAL YR 1975 TOTAL 2181720 MEAN 5977 MAX 55700 MIN 582 AC-FT 4327000
WTR YR 1976 TOTAL 989574 MEAN 2704 MAX 28300 MIN 491 AC-FT 1963000

11530000 TRINITY RIVER AT HOOPA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.
CHEMICAL ANALYSES: Water years 1951 to current year.
WATER TEMPERATURES: Water years 1957 to current year.
SEDIMENT RECORDS.--Water years 1955 to current year.
Prior to October 1964, published as "near Hoopa."

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1956 to current year.
SEDIMENT RECORDS: November 1956 to current year.

REVISED RECORDS.--WDR CA-70-P2: 1969.

INSTRUMENTATION.--Temperature recorder since March 1964.

REMARKS.--Where no maximum or minimum is shown, temperature is once-daily reading. Measurement of suspended sediment made at bridge on State Highway 96, 1.0 mi (1.6 km) downstream from gaging station. No appreciable inflow between sampling point and gaging station except during periods of heavy runoff.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1964-66, 1969, 1974-76), 27.0°C July 16, 1965, July 27, 28, 1976; minimum (water years 1965-71, 1974-76), 2.0°C on several days in 1967-68, 1971.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 20,400 mg/L Dec. 23, 1964; minimum daily mean, 1 mg/L on many days in 1957-64, 1968-70.
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.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 27.0°C July 27, 28; minimum, 3.0°C Feb. 6, 7.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 970 mg/L Feb. 26; minimum daily mean, 2 mg/l June 6, 7, Sept. 25, 26.
SEDIMENT DISCHARGE: Maximum daily, 63,500 tons (57,600 tonnes) Feb. 26; minimum daily, 2.7 tons (2.4 tonnes) Sept. 26.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT 06...	0930	593	202	8.0	16.0	1	9.2
NOV 03...	1100	1900	176	8.0	11.0	4	10.3
DEC 01...	1040	2650	154	8.0	8.0	7	11.3
JAN 05...	1200	2040	163	7.7	5.0	--	13.0
FEB 02...	1255	1790	158	8.4	8.0	1	12.6
MAR 01...	1045	21100	137	7.8	7.0	95	11.7
APR 05...	1040	3470	155	8.1	11.0	3	10.7
MAY 03...	1000	3550	134	7.6	13.0	4	10.6
JUN 07...	0920	1460	165	7.9	16.0	1	9.6
JUL 12...	1000	774	178	7.8	21.0	1	9.8
AUG 02...	1140	510	192	8.1	23.0	0	9.9
SEP 13...	1000	491	198	7.9	19.0	1	10.1

DATE	TIME	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
FEB 02...	1255	82	5	3.4	.2	94	0	77	4.0	.02	--
APR 05...	1040	71	2	3.2	.2	84	0	69	2.6	.01	.00

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL ZINC (ZN) (UG/L)
FEB 02...	--	.00	.00	0	--	--	--	--	--	--
APR 05...	.03	.00	.00	100	0	0	80	0	10	20

11530000 TRINITY RIVER AT HOOPA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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	19.5	--	17.0	11.0	--	10.0	8.0	--	7.0	6.0	--	4.5	7.0	--	6.0	7.5	--	6.5
2	18.5	--	17.0	11.5	--	10.0	9.0	--	8.0	4.5	--	3.5	7.5	--	6.0	6.5	--	6.0
3	19.0	--	16.5	12.0	--	10.5	9.0	--	8.5	5.0	--	4.0	7.5	--	6.5	6.5	--	5.5
4	19.5	--	16.5	12.5	--	11.0	8.5	--	8.0	5.5	--	5.0	6.5	--	5.5	6.5	--	6.0
5	19.5	--	17.0	12.0	--	11.0	8.5	--	7.0	6.5	--	5.5	5.5	--	4.0	7.0	--	6.0
6	18.5	--	16.5	11.5	--	10.5	9.5	--	7.5	7.0	--	6.5	4.5	--	3.0	7.0	--	6.5
7	16.5	--	15.5	11.0	--	10.0	9.5	--	9.5	7.0	--	6.5	5.0	--	3.0	7.0	--	7.0
8	16.0	--	14.5	10.5	--	9.5	9.5	--	9.0	7.5	--	7.0	5.0	--	4.0	8.5	--	7.0
9	14.5	--	13.5	9.5	--	8.5	9.0	--	8.5	7.5	--	7.0	6.0	--	4.5	9.0	--	8.0
10	14.0	13.5	12.5	9.0	--	8.5	8.5	--	8.5	7.0	--	6.5	6.0	--	4.0	9.0	--	8.5
11	15.0	14.0	12.5	8.5	--	8.0	8.5	--	8.5	7.0	--	6.5	6.0	--	4.5	9.0	--	8.0
12	15.5	--	13.0	9.0	--	7.5	8.5	--	7.5	7.0	--	7.0	7.5	--	5.5	8.5	--	8.0
13	15.0	14.0	13.5	8.5	--	7.5	7.5	--	7.0	7.5	--	7.0	7.5	--	7.0	8.5	--	7.5
14	15.0	--	13.5	9.0	--	7.5	7.0	--	6.0	8.0	--	7.0	7.5	--	7.0	9.0	--	8.0
15	15.0	--	13.5	9.0	--	9.0	6.0	--	5.5	8.5	--	8.0	7.0	--	6.5	10.0	--	9.0
16	15.5	--	13.5	9.0	--	8.5	6.0	--	5.5	8.5	--	8.0	7.0	--	6.5	10.0	--	9.5
17	15.0	--	13.5	8.5	--	7.5	6.5	--	6.0	8.0	--	8.0	7.0	--	7.0	11.0	--	10.0
18	15.5	--	14.0	7.5	--	6.5	6.0	--	6.0	8.0	--	7.5	7.5	--	7.0	10.5	--	9.0
19	16.0	--	14.0	6.5	--	6.0	6.0	--	5.5	7.5	--	6.5	7.5	--	6.5	9.0	--	7.5
20	16.0	--	14.5	7.0	--	6.0	6.0	--	5.5	6.5	--	6.0	7.5	--	6.5	9.0	--	7.5
21	15.5	--	14.5	7.5	--	6.5	5.5	--	5.0	6.5	--	6.0	6.5	--	6.5	9.5	--	8.0
22	14.5	--	13.0	7.5	--	6.5	6.5	--	5.5	6.5	--	5.5	8.0	--	6.5	9.0	--	8.5
23	13.5	--	11.5	8.0	--	7.0	7.0	--	6.5	6.5	--	6.0	7.0	--	7.0	9.0	--	8.5
24	13.0	--	11.0	8.5	--	7.5	8.0	--	7.0	7.0	--	6.5	7.5	--	7.0	9.0	--	8.0
25	12.5	--	10.5	8.0	--	7.5	8.0	--	7.5	6.5	--	6.0	7.5	--	7.5	9.0	--	7.5
26	11.0	--	10.5	8.0	--	7.0	8.0	--	7.5	6.0	--	5.5	7.5	--	7.5	8.0	--	7.5
27	10.5	--	10.0	8.0	--	7.5	8.5	--	8.0	6.0	--	5.5	8.0	--	7.5	8.0	--	7.0
28	11.5	--	10.0	7.5	--	6.5	8.5	--	8.5	6.0	--	5.5	8.0	--	7.5	9.0	--	7.5
29	11.0	--	9.5	6.5	--	6.0	9.0	--	8.0	6.0	--	5.5	7.5	--	7.5	10.0	--	8.0
30	11.0	--	10.5	7.0	--	6.5	8.5	--	7.5	6.5	--	5.5	--	--	--	11.0	--	9.0
31	11.0	--	10.0	--	--	--	7.5	--	6.0	6.5	--	6.0	--	--	--	10.5	--	8.5
MONTH	19.5	--	9.5	12.5	--	6.0	9.5	--	5.0	8.5	--	3.5	8.0	--	3.0	11.0	--	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	9.5	--	8.0	--	--	--	15.5	--	14.5	21.5	--	19.0	24.0	--	22.0	24.0	--	21.0
2	10.0	--	7.5	--	15.0	--	17.0	--	13.5	--	--	--	24.5	--	21.5	23.5	--	20.5
3	10.5	--	8.0	--	--	--	17.5	--	13.5	--	--	--	24.5	--	22.0	23.5	--	20.5
4	12.0	--	9.0	--	16.0	--	17.5	--	13.5	--	--	--	24.0	--	21.0	23.5	--	21.0
5	11.5	--	10.5	--	--	--	18.0	--	14.5	--	--	--	23.5	--	21.0	23.5	--	20.5
6	11.0	--	10.0	--	17.0	--	18.0	--	15.0	25.0	--	23.0	22.5	--	20.5	23.0	--	20.5
7	10.0	--	9.5	16.5	--	15.5	17.0	--	15.5	24.5	--	21.5	23.0	--	20.0	22.0	--	19.5
8	10.0	--	9.0	17.5	--	14.0	18.5	--	15.0	25.0	--	22.0	23.5	--	20.5	22.5	--	19.5
9	9.5	--	9.0	18.0	--	14.5	17.0	--	15.5	25.0	--	21.5	24.5	--	20.0	22.5	--	20.0
10	9.5	--	9.0	16.5	--	14.5	17.5	--	14.5	24.5	--	21.0	25.0	--	21.5	21.5	--	20.0
11	9.5	--	8.5	17.0	--	14.0	17.0	--	15.5	22.5	--	20.5	25.0	--	21.5	22.5	--	20.0
12	--	10.0	--	18.0	--	14.0	19.5	--	15.5	24.0	--	20.0	24.5	--	21.5	21.5	--	19.5
13	--	8.5	--	19.0	--	15.5	20.0	--	16.0	24.0	--	20.0	24.0	--	20.5	21.0	--	19.0
14	--	12.0	--	18.5	--	15.5	21.0	--	16.5	24.5	--	20.5	21.0	--	19.5	21.0	--	19.5
15	--	10.0	--	18.5	--	14.5	21.0	--	17.5	25.5	--	21.5	20.0	--	19.0	20.5	--	18.0
16	--	--	--	17.5	--	14.5	22.5	--	18.5	25.0	--	22.0	20.0	--	18.0	20.0	--	19.0
17	--	--	--	17.0	--	14.0	23.5	--	19.0	24.0	--	22.0	19.0	--	17.5	20.5	--	19.0
18	--	10.0	--	16.5	--	13.5	24.0	--	19.5	25.0	--	22.0	19.5	--	17.0	20.5	--	18.5
19	--	--	--	16.5	--	13.5	24.0	--	20.0	24.0	--	21.5	21.0	--	18.0	21.0	--	19.0
20	--	15.0	--	17.0	--	13.0	23.0	--	20.0	24.0	--	20.5	24.0	--	18.5	20.5	--	19.0
21	--	--	--	17.5	--	13.5	21.0	--	19.0	23.5	--	20.0	23.5	--	20.0	20.0	--	18.5
22	--	13.0	--	18.0	--	14.5	22.0	--	18.5	24.0	--	20.0	22.5	--	20.5	20.0	--	18.0
23	--	--	--	18.0	--	14.5	23.0	--	19.0	24.0	--	21.0	23.0	--	20.0	20.0	--	18.0
24	--	13.0	--	17.0	--	14.5	23.5	--	20.0	25.5	--	21.5	23.0	--	20.5	20.0	--	18.5
25	--	--	--	19.0	--	15.0	23.5	--	20.5	26.0	--	22.5	22.5	--	20.5	20.0	--	18.5
26	--	13.0	--	19.5	--	15.0	23.5	--	20.0	26.5	--	23.0	22.0	--	19.0	19.5	--	18.0
27	--	--	--	19.0	--	16.0	24.0	--	20.0	27.0	--	24.0	22.0	--	21.0	19.5	--	18.5
28	--	13.0	--	18.0	--	14.5	24.0	--	20.5	27.0	--	23.5	23.5	--	20.0	19.5	--	18.0
29	--	--	--	16.0	--	14.0	24.0	--	21.5	25.5	--	24.0	23.5	--	21.5	20.5	--	18.5
30	--	16.0	--	15.5	--	14.0	22.5	--	20.5	25.5	--	23.0	24.0	--	21.5	21.5	--	19.0
31	--	--	--	15.5	--	13.5	--	--	--	25.0	--	22.0	24.0	--	21.5	--	--	--
MONTH	--	--	--	19.5	--	13.0	24.0	--	13.5	27.0	--	19.0	25.0	--	17.0	24.0	--	18.0

11530000 TRINITY RIVER AT HOOPA, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	582	3	4.7	2700	60	437	2550	66	454
2	582	4	6.3	2200	40	238	2640	45	321
3	582	5	7.9	1920	21	109	2380	40	257
4	582	5	7.9	1710	30	139	3000	146	1540
5	582	5	7.9	1550	43	180	9950	555	16600
6	584	4	6.3	1500	50	202	14400	628	25800
7	616	44	73	2520	78	531	8250	200	4450
8	640	50	86	2950	50	398	6100	100	1650
9	664	42	75	2350	29	184	4940	75	1000
10	1010	39	106	2860	76	619	4160	55	618
11	1540	65	270	3110	55	462	3690	40	399
12	1110	35	105	2550	35	241	3700	37	370
13	906	12	29	2270	30	184	3390	33	302
14	823	8	18	2260	30	183	3070	30	249
15	781	5	11	7830	525	16700	2780	28	210
16	763	4	8.2	11500	548	18000	2620	28	198
17	775	6	13	5890	240	3820	2490	26	175
18	829	8	18	4200	160	1810	2350	26	165
19	848	10	23	3400	105	964	2230	26	157
20	836	7	16	3040	216	1770	2120	26	149
21	817	5	11	2720	160	1180	2060	26	145
22	836	6	14	2470	133	887	2300	26	161
23	867	7	16	2330	100	629	2220	27	162
24	842	7	16	2180	92	542	2120	26	149
25	2080	164	1450	2070	87	486	2070	26	145
26	8320	427	10100	2010	54	293	2100	19	108
27	4400	120	1430	2020	42	229	2320	20	125
28	2960	60	480	1910	35	180	2230	22	132
29	2180	50	294	1780	30	144	2240	18	109
30	3000	170	1380	1730	25	117	2220	14	84
31	4200	120	1360	---	---	---	2120	14	80
TOTAL	46137	---	17443.2	89530	---	51858	110810	---	56464

	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	2010	13	71	1850	20	100	20800	380	21300
2	1900	21	108	1790	17	82	14500	330	12900
3	1840	23	114	1750	25	118	10900	240	7060
4	1850	27	135	1720	35	163	8810	170	4040
5	2000	20	108	1660	25	112	7450	200	4020
6	2090	17	96	1570	18	76	6450	150	2610
7	1960	15	79	1560	12	51	5800	100	1570
8	3060	75	620	1580	15	64	5370	90	1300
9	5790	270	4220	1540	14	58	5140	80	1110
10	5020	112	1520	1500	13	53	4980	72	968
11	4190	55	622	1450	10	39	4860	66	866
12	3930	48	509	1430	9	35	4600	56	696
13	3680	42	417	1510	12	49	4250	48	551
14	3540	38	363	1780	13	62	4210	44	500
15	3440	40	372	1900	14	72	4070	40	440
16	3370	46	419	3920	165	2390	4050	36	394
17	3350	30	271	5790	120	1880	4330	58	678
18	3260	22	194	5400	80	1170	4790	48	621
19	3060	20	165	5130	70	970	4920	50	664
20	2900	20	157	4650	55	691	4280	34	393
21	2750	26	193	4020	40	434	4010	73	790
22	2620	30	212	3720	32	321	4030	66	718
23	2640	70	499	3420	24	222	4100	100	1110
24	3020	60	489	3190	21	181	4260	156	1790
25	2830	50	382	4040	58	696	4800	170	2200
26	2580	40	279	19600	970	63500	4410	100	1190
27	2380	36	231	24700	667	45800	4180	60	677
28	2280	32	197	28300	698	53800	4020	30	326
29	2170	31	182	23800	420	27000	3860	30	313
30	2060	30	167	---	---	---	3750	30	304
31	1950	24	126	---	---	---	3940	37	394
TOTAL	89520	---	13517	164270	---	200189	179920	---	72493

11530000 TRINITY RIVER AT HOOPA, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	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	3920	22	233	3380	12	110	1750	4	19
2	3690	20	199	3680	14	139	1650	4	18
3	3570	18	174	3560	13	125	1580	3	13
4	3440	16	149	3470	12	112	1540	3	12
5	3470	16	150	3400	10	92	1490	3	12
6	3430	16	148	3370	10	91	1470	2	7.9
7	3720	21	211	3260	8	70	1450	2	7.8
8	5340	78	1120	3390	24	220	1460	6	24
9	5510	48	714	3670	16	159	1450	5	20
10	5310	44	631	3690	14	139	1470	4	16
11	5710	42	648	3430	12	111	1420	4	15
12	5420	41	600	3140	10	85	1380	3	11
13	5080	32	439	3230	12	105	1360	8	29
14	4730	24	307	3430	12	111	1370	6	22
15	4560	26	320	3010	9	73	1310	5	18
16	4300	22	255	2710	9	66	1320	5	18
17	4130	18	201	2600	10	70	1350	6	22
18	4070	16	176	2490	10	67	1320	6	21
19	3890	19	200	2380	9	58	1320	6	21
20	3920	17	180	2290	8	49	1320	6	21
21	4070	17	187	2170	8	47	1260	5	17
22	4070	18	198	2120	7	40	1170	5	16
23	4010	17	184	2090	7	40	1100	4	12
24	4030	16	174	2060	6	33	1070	5	14
25	4130	16	178	2030	6	33	1060	7	20
26	3850	15	156	1950	6	32	1060	6	17
27	3560	15	144	1940	6	31	1020	5	14
28	3370	16	146	1940	5	26	960	4	10
29	3230	13	113	1850	5	25	942	3	7.6
30	3190	10	86	1790	5	24	942	3	7.6
31	---	---	---	1770	4	19	---	---	---
TOTAL	124720	---	8621	85290	---	2402	39364	---	482.9

	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	925	3	7.5	515	5	7.0	501	3	4.1
2	918	3	7.4	510	5	6.9	491	3	4.0
3	900	3	7.3	546	5	7.4	510	6	8.3
4	890	3	7.2	593	8	13	526	5	7.1
5	880	10	24	615	12	20	515	5	7.0
6	877	8	19	686	15	28	506	5	6.8
7	852	7	16	714	15	29	496	4	5.4
8	813	7	15	686	12	22	491	4	5.3
9	796	6	13	642	9	16	491	4	5.3
10	791	5	11	609	9	15	491	4	5.3
11	774	11	23	571	9	14	491	4	5.3
12	774	8	17	541	9	13	491	4	5.3
13	769	7	15	531	9	13	491	4	5.3
14	730	6	12	615	9	15	491	3	4.0
15	708	6	11	883	8	19	491	3	4.0
16	697	5	9.4	1200	8	26	501	3	4.1
17	703	4	7.6	1070	7	20	571	6	9.3
18	780	3	6.3	1030	6	17	588	9	14
19	864	3	7.0	1120	5	15	571	8	12
20	758	3	6.1	990	3	8.0	565	7	11
21	697	3	5.6	852	3	6.9	546	6	8.8
22	659	4	7.1	758	3	6.1	536	5	7.2
23	637	4	6.9	719	4	7.8	526	4	5.7
24	615	4	6.6	725	4	7.8	520	3	4.2
25	599	4	6.5	681	4	7.4	515	2	2.8
26	576	5	7.8	637	3	5.2	506	2	2.7
27	560	5	7.6	609	3	4.9	496	5	6.7
28	546	5	7.4	588	3	4.8	491	4	5.3
29	536	5	7.2	560	3	4.5	510	4	5.5
30	526	6	8.5	541	3	4.4	565	4	6.1
31	520	6	8.4	526	3	4.3	---	---	---
TOTAL	22670	---	321.4	21863	---	388.4	15480	---	187.9
YEAR	989574		424367.8						

11530000 TRINITY RIVER AT HOOPA, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
OCT								
25...	1630	11.0	2490	349	2350	--	--	--
DEC								
05...	1610	--	10800	395	11500	--	--	--
FEB								
26...	1605	--	27700	1720	129000	20	28	39
27...	1635	--	22100	516	30800	--	--	--
28...	1135	8.0	29400	697	55300	28	37	48
28...	1735	8.0	27800	527	39600	--	--	--
29...	1205	--	23300	378	23800	--	--	--
MAR								
02...	1645	6.0	13700	325	12000	--	--	--
05...	1635	7.0	7220	214	4170	--	--	--
21...	1300	8.0	4060	73	800	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT								
25...	--	--	73	86	96	99	100	--
DEC								
05...	--	--	48	60	78	95	99	100
FEB								
26...	51	64	74	86	95	99	100	--
27...	--	--	65	77	91	98	100	--
28...	58	68	76	87	96	100	--	--
28...	--	--	66	77	91	99	100	--
29...	--	--	66	75	87	98	100	--
MAR								
02...	--	--	50	59	76	94	100	--
05...	--	--	35	40	55	81	94	100
21...	--	--	66	68	79	96	100	--

11530300 BLUE CREEK NEAR KLAMATH, CA

LOCATION.--Lat 41°27'00", long 123°53'40", in NE¼NW¼ sec.12, T.12 N., R.2 E., Humboldt County, on left bank 600 ft (183 m) downstream from West Fork, 3.0 mi (4.8 km) upstream from mouth, and 9.2 mi (14.8 km) southeast of Klamath.

DRAINAGE AREA.--120 mi^2 (311 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 140.65 ft (42.870 m) above mean sea level.

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

AVERAGE DISCHARGE.--11 years, 788 ft^3/s (22.32 m^3/s), 570,900 acre-ft/yr (704 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,000 ft^3/s (935 m^3/s) Mar. 2, 1972, gage height, 18,10 ft (5.517 m), from rating curve extended above 1,000 ft^3/s (28.3 m^3/s) on basis of step-backwater computation at 21.55 ft (6.568 m); minimum daily, 43 ft^3/s (1.22 m^3/s) Nov. 1, 1965.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 21.55 ft (6.568 m) from floodmarks, discharge, 48,000 ft^3/s (1,360 m^3/s), by step-backwater computation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,000 ft^3/s (198 m^3/s) Feb. 26 (0730 hrs), gage height, 12.20 ft (3.719 m), peak above base of 7,000 ft^3/s (198 m^3/s); minimum daily, 66 ft^3/s (1.87 m^3/s) Oct. 1-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	846	1800	523	415	1880	817	510	233	129	96	83
2	66	752	1020	506	404	1510	768	485	207	125	97	83
3	66	696	1000	494	393	1300	701	475	199	122	97	82
4	66	632	4450	545	379	1160	681	460	193	122	97	80
5	66	608	3300	823	365	1000	706	440	188	119	97	79
6	69	646	2400	897	354	939	726	430	186	119	98	79
7	78	1470	2000	1090	348	880	742	410	184	118	98	78
8	79	1080	1600	4310	338	817	812	395	182	118	97	78
9	84	880	1350	2740	328	768	785	385	177	118	96	76
10	120	1370	1250	1880	318	758	880	380	175	113	98	75
11	109	1140	1080	1980	308	737	886	355	175	116	96	74
12	88	982	1200	2000	305	691	834	335	175	118	96	74
13	79	880	1050	1750	419	656	779	325	169	118	96	74
14	75	1080	910	1660	453	641	732	305	165	118	129	74
15	73	4350	820	1540	453	622	721	290	161	115	309	75
16	72	2300	740	1440	2530	604	671	280	161	110	324	76
17	78	1560	680	1300	1870	613	651	275	157	116	186	79
18	113	1240	627	1140	1800	666	666	265	155	118	155	78
19	90	1040	594	1010	1430	637	627	255	153	113	134	76
20	80	975	563	933	1170	594	627	245	147	110	121	74
21	81	857	563	785	1040	581	622	242	147	110	112	74
22	107	863	613	752	963	676	622	238	147	109	106	74
23	103	863	572	661	927	706	608	235	143	106	103	74
24	87	696	545	618	892	1180	646	230	140	106	100	72
25	1640	666	532	567	1980	1130	627	225	136	106	96	73
26	1580	696	641	536	5170	969	576	219	134	103	93	73
27	1420	742	681	515	3800	892	564	215	132	100	91	73
28	1140	676	622	490	3710	892	540	212	129	100	88	73
29	857	622	594	469	2420	840	540	205	127	98	87	73
30	1420	594	585	450	---	829	530	225	127	98	86	71
31	1040	---	549	430	---	851	---	272	---	98	84	---
TOTAL	11092	31802	34931	34834	35282	27019	20687	9818	4904	3489	3663	2277
MEAN	358	1060	1127	1124	1217	872	690	317	163	113	118	75.9
MAX	1640	4350	4450	4310	5170	1880	886	510	233	129	324	83
MIN	66	594	532	430	305	581	530	205	127	98	84	71
AC-FT	22000	63080	69290	69090	69980	53590	41030	19470	9730	6920	7270	4520

CAL YR 1975 TOTAL 334009 MEAN 915 MAX 13200 MIN 66 AC-FT 662500
WTR YR 1976 TOTAL 219798 MEAN 601 MAX 5170 MIN 66 AC-FT 436000

NOTE.--No gage-height record Apr. 29 to May 25.

11530300 BLUE CREEK NEAR KLAMATH, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1965 to current year.
INSTRUMENTATION.--Temperature recorder since October 1965.
REMARKS.--Where no maximum or minimum is shown, temperature is once-daily reading.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1966-74), 27.0°C July 23, 1970; minimum, 3.5°C Dec. 11, 12, 1972.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Minimum, 5.0°C Jan. 20-22, 26.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCT MAX	OCT DAILY	OCT MIN	NOV MAX	NOV DAILY	NOV MIN	DEC MAX	DEC DAILY	DEC MIN	JAN MAX	JAN DAILY	JAN MIN	FEB MAX	FEB DAILY	FEB MIN	MAR MAX	MAR DAILY	MAR MIN
1	16.5	--	15.5	9.0	--	8.5	7.0	--	6.5	5.5	--	5.5	6.0	--	5.5	7.5	--	7.0
2	16.0	--	15.5	9.0	--	9.0	7.5	--	6.5	5.5	--	5.5	6.5	--	6.0	7.5	--	7.0
3	16.5	--	15.5	9.0	--	9.0	7.0	--	6.5	6.0	--	5.5	7.0	--	6.0	7.5	--	7.0
4	16.5	--	15.5	9.0	--	8.5	7.0	--	7.0	6.0	--	6.0	6.5	--	6.0	7.5	--	7.0
5	16.5	--	15.5	8.5	--	8.5	7.0	--	7.0	6.5	--	6.0	6.5	--	6.0	8.0	--	7.0
6	16.0	--	16.0	8.5	--	8.5	7.5	--	7.0	6.5	--	6.0	6.5	--	6.0	7.5	--	7.0
7	16.0	--	15.5	8.5	--	8.0	7.5	--	7.0	6.0	--	6.0	7.0	--	6.5	7.5	--	7.0
8	16.0	--	15.0	8.0	--	7.5	7.5	--	7.0	6.0	--	6.0	7.0	--	6.5	8.5	--	7.0
9	16.0	--	15.5	8.0	--	7.5	8.0	--	7.0	6.0	--	6.0	7.0	--	6.5	8.5	--	8.0
10	16.0	--	15.5	8.0	--	7.5	8.0	--	8.0	6.0	--	5.5	6.5	--	6.0	8.5	--	8.0
11	16.0	--	15.5	8.0	--	7.5	8.0	--	7.5	6.0	--	6.0	6.5	--	6.0	8.5	--	8.0
12	16.0	--	15.5	8.0	--	7.5	8.0	--	7.5	6.0	--	5.5	7.0	--	6.5	8.5	--	7.5
13	16.0	--	15.0	8.0	--	7.5	7.5	--	7.0	5.5	--	5.5	7.0	--	6.5	8.0	--	7.5
14	16.0	--	15.0	8.0	--	8.0	7.0	--	6.5	5.5	--	5.5	6.5	--	6.5	8.5	--	8.0
15	--	--	--	8.0	--	8.0	7.5	--	6.5	5.5	--	5.5	6.5	--	6.5	8.5	--	8.0
16	--	--	--	8.0	--	7.5	7.0	--	6.5	6.0	--	5.5	7.0	--	6.5	8.5	--	8.0
17	--	--	--	7.5	--	7.0	7.0	--	6.5	6.0	--	5.5	7.5	--	7.0	8.5	--	8.0
18	--	--	--	7.5	--	7.0	7.0	--	6.5	6.0	--	6.0	7.5	--	7.0	8.5	--	8.0
19	--	--	--	7.5	--	7.0	7.0	--	6.5	6.0	--	5.5	7.5	--	7.0	8.0	--	7.5
20	--	--	--	7.5	--	7.5	7.0	--	6.5	5.5	--	5.0	7.5	--	7.0	8.5	--	8.0
21	--	--	--	7.5	--	7.0	7.0	--	6.5	5.5	--	5.0	7.5	--	7.0	8.5	--	8.0
22	--	--	--	7.5	--	7.5	7.0	--	6.5	5.5	--	5.0	7.5	--	7.5	8.5	--	8.0
23	--	--	--	7.5	--	7.5	7.0	--	7.0	5.5	--	5.5	7.5	--	7.5	--	--	--
24	--	10.0	--	7.5	--	7.5	7.0	--	7.0	5.5	--	5.5	7.5	--	7.5	--	--	--
25	10.5	--	10.0	7.5	--	7.5	7.0	--	6.5	5.5	--	5.5	7.5	--	7.5	--	--	--
26	10.0	--	10.0	7.5	--	7.5	6.5	--	6.5	6.0	--	5.0	7.5	--	7.0	--	--	--
27	10.0	--	9.5	7.5	--	7.0	6.5	--	6.0	6.5	--	6.0	7.0	--	7.0	--	--	--
28	9.5	--	9.5	7.0	--	7.0	6.0	--	6.0	6.0	--	6.0	7.0	--	7.0	--	--	--
29	9.5	--	9.0	7.0	--	7.0	6.0	--	6.0	6.0	--	5.5	7.0	--	7.0	--	--	--
30	9.0	--	8.5	7.0	--	6.5	6.0	--	6.0	6.0	--	5.5	--	--	--	--	--	--
31	9.0	--	8.5	7.0	--	--	6.0	--	5.5	6.0	--	5.5	--	--	--	--	--	--
MONTH	--	--	--	9.0	--	6.5	8.0	--	5.5	6.5	--	5.0	7.5	--	5.5	--	--	--

DAY	APR MAX	APR DAILY	APR MIN	MAY MAX	MAY DAILY	MAY MIN	JUN MAX	JUN DAILY	JUN MIN	JUL MAX	JUL DAILY	JUL MIN	AUG MAX	AUG DAILY	AUG MIN	SEP MAX	SEP DAILY	SEP MIN
1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20.5	--	16.0
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21.0	--	15.5
3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21.5	--	16.5
4	--	--	--	--	--	--	--	--	--	--	--	--	--	17.5	--	21.0	--	15.5
5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20.0	--	16.0
6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20.5	--	16.0
7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20.5	--	15.5
8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20.5	--	16.0
9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21.5	--	16.0
10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21.0	--	16.5
11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19.0	--	16.0
12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19.5	--	16.0
13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20.0	--	16.0
14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19.0	--	16.0
15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20.0	--	16.0
16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17.0	--	16.0
17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20.0	--	16.0
18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20.5	--	16.5
19	--	--	--	--	--	--	--	--	--	--	25.0	--	--	--	--	21.5	--	17.5
20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19.0	--	18.0
21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21.5	--	17.5
22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21.0	--	18.0
23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21.5	--	17.5
24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21.0	--	17.5
25	--	--	--	--	--	--	--	--	--	--	--	--	--	18.0	--	19.5	--	18.0
26	--	--	--	--	18.0	--	--	--	--	--	--	--	20.0	--	16.0	20.0	--	19.0
27	--	8.5	--	--	--	--	--	--	--	--	--	--	20.0	--	15.0	20.5	--	19.0
28	--	--	--	--	--	--	--	--	--	--	--	--	21.0	--	15.0	21.5	--	19.0
29	--	--	--	--	--	--	--	--	--	--	--	--	22.5	--	15.0	22.5	--	20.0
30	--	--	--	--	--	--	--	--	--	--	--	--	22.0	--	15.0	22.0	--	18.5
31	--	--	--	--	--	--	--	--	--	--	--	--	22.0	--	15.5	--	--	--
MONTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	22.5	--	15.5

11530500 KLAMATH RIVER NEAR KLAMATH, CA
(National stream-quality accounting network station)

LOCATION.--Lat 41°30'52", long 123°59'57", in SW¼ sec.13, T.13 N., R.2 E., Del Norte County, on right bank 0.2 mi (0.3 km) upstream from Turwar Creek, and 2.2 mi (3.5 km) southeast of Klamath. Prior to Oct. 3, 1975, at site 2.6 mi (4.2 km) upstream.

DRAINAGE AREA.--12,100 mi^2 (31,340 km^2), approximately (not including Lost River or Lower Klamath Lake basins).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1910 to December 1926 (published as "near Requa"), October 1950 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1285: 1951(P). WSP 1445: 1918-20.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to June 1926, nonrecording gage at site 2.6 mi (4.2 km) upstream at different datum. June 1926 to Oct. 2, 1975, at site 2.6 mi (4.2 km) upstream at datum 5.60 ft (1.707 m) higher.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow considerably regulated by reservoirs and powerplants above station. Large diversions for irrigation above station.

AVERAGE DISCHARGE.--42 years, 17,680 ft^3/s (500.7 m^3/s), 12,810,000 acre-ft/yr (15.8 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 557,000 ft^3/s (15,800 m^3/s) Dec. 23, 1964, gage height, 55.3 ft (16.86 m) former datum, from floodmarks, from rating curve extended above 230,000 ft^3/s (6,510 m^3/s) on basis of flood-routing study; minimum observed, 1,340 ft^3/s (37.9 m^3/s) July 31, Aug. 1, 1924.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 76,900 ft^3/s (2,180 m^3/s) Feb. 28, gage height, 18.37 ft (5.599 m), no peak above base of 90,000 ft^3/s (2,550 m^3/s); minimum daily, 2,350 ft^3/s (66.6 m^3/s) July 31, Aug. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3640	14300	19900	12400	11100	55400	17400	13300	7970	3830	2350	3000
2	3640	11800	19900	11800	10900	45400	16600	14800	7380	3720	2400	3100
3	3660	9200	16900	11400	10800	37500	15800	14000	6780	3600	2620	3050
4	3670	8900	22100	11300	10800	31600	15100	14100	6410	3400	2900	3000
5	3700	8600	45600	12500	10700	27400	15100	13900	6290	3440	3080	3000
6	3800	8500	51400	13900	10200	24500	15300	13900	6180	3400	3130	2950
7	3900	13500	39400	13500	9940	22500	15300	13500	6100	3300	3300	2900
8	4000	12800	30500	24000	9870	21100	17000	14400	6050	3280	3450	2900
9	4050	10600	25900	31100	9900	20500	18200	16000	5940	3260	3370	2850
10	4600	13000	22600	25600	9830	19800	18500	16600	5960	3210	3230	2900
11	5600	12000	20500	22400	9480	19100	18500	15800	5880	3150	3000	2950
12	5100	10000	20200	22500	8790	18400	17600	14000	5860	3240	2870	2900
13	4750	9400	18900	21300	9300	17500	16700	14100	5750	3240	2770	2950
14	4500	12500	17000	20200	10800	16800	15700	15300	5570	3070	2680	3000
15	4900	31600	15600	19500	11200	16000	15400	14300	5410	2960	2650	3050
16	4920	43800	14700	18900	20700	15500	14900	13000	5260	2910	4250	3100
17	4970	28200	14200	18700	26300	16200	14300	12300	5290	2930	5400	3150
18	5200	21400	13700	17900	24500	18200	14100	11500	5310	3090	4700	3260
19	5150	17800	13100	17100	22700	19000	13700	10900	5260	3300	4400	3070
20	5000	15900	12500	16100	20600	17100	13400	10300	5340	3090	4200	3040
21	4900	14400	12200	15300	18600	16100	13600	9760	5230	2890	4000	2960
22	5050	13300	12700	14700	17000	16100	14000	9480	4960	2750	3800	2950
23	5300	12500	12300	14100	16200	16900	14000	9270	4600	2660	3650	3110
24	5000	11800	11900	14300	15500	18900	14300	8990	4330	2610	3500	3110
25	13000	11200	11800	14100	19900	22100	15400	8720	4260	2530	3400	3150
26	32000	11500	11800	13300	45000	19900	14800	8460	4240	2500	3300	3130
27	25000	12100	13100	12800	62500	18800	13600	8420	4110	2450	3200	3130
28	19000	12000	12700	12300	71300	18300	13200	8460	3970	2430	3150	3150
29	14000	11500	12600	12000	62300	17000	12700	8100	3850	2410	3050	3040
30	21000	11600	13000	11600	---	16500	12400	7840	3830	2380	3000	3040
31	18500	---	12800	11400	---	17400	---	7910	---	2350	3000	---
TOTAL	251500	435700	591500	508000	596710	677500	456600	371410	163370	93380	103800	90890
MEAN	8113	14520	19080	16390	20580	21850	15220	11980	5446	3012	3348	3030
MAX	32000	43800	51400	31100	71300	55400	18500	16600	7970	3830	5400	3260
MIN	3640	8500	11800	11300	8790	15500	12400	7840	3830	2350	2350	2850
AC-FT	498900	864200	1173000	1008000	1184000	1344000	905700	736700	324000	185200	205900	180300

CAL YR 1975	TOTAL	7667320	MEAN	21010	MAX	170000	MIN	3200	AC-FT	15210000
WTR YR 1976	TOTAL	4340360	MEAN	11860	MAX	71300	MIN	2350	AC-FT	8609000

NOTE.--No gage-height record Aug. 1-31.

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.
CHEMICAL ANALYSES: Water years 1951 to current year.
SPECIFIC CONDUCTANCE: Water years 1975 to current year.
WATER TEMPERATURES: Water years 1966 to current year.
SEDIMENT RECORDS: Water years 1955-56, 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1974 to current year.
WATER TEMPERATURES: November 1965 to current year.

INSTRUMENTATION.--Temperature recorder since November 1965.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1967-68, 1971, 1973-76), 25.5°C on several days in 1968; minimum (water years 1966-70, 1972, 1975), 2.5°C Feb. 2, 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 25.0°C July 26, 27.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT											
31...	1400	18500	--	137	8.3	11.0	--	33	100	--	--
NOV											
25...	1345	11200	11100	144	7.6	7.5	--	B4	86	--	--
DEC											
22...	1420	12700	12600	139	7.2	6.0	10	--	--	60	0
JAN											
19...	1410	17100	16600	136	7.3	7.0	--	B4	B2	--	--
MAR											
03...	1430	37500	36400	126	7.2	6.0	--	B6	B22	--	--
30...	1255	16500	16000	138	8.0	10.0	4	B4	<1	63	0
APR											
21...	1400	13600	13400	133	7.3	14.0	--	B8	B7	--	--
MAY											
27...	1530	8420	8390	124	7.7	16.0	--	B5	B4	--	--
JUN											
29...	1250	3850	3800	155	7.6	20.0	--	B3	B3	--	--
JUL											
27...	1420	2410	2430	179	8.1	23.0	--	B7	B9	--	--
AUG											
31...	1325	3000	--	188	8.1	21.5	--	B8	B9	--	--

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT											
31...	--	--	--	--	--	--	--	--	--	--	--
NOV											
25...	--	--	--	--	--	--	--	--	--	--	--
DEC											
22...	14	6.1	6.3	18	.4	.9	74	0	61	8.8	1.8
JAN											
19...	--	--	--	--	--	--	--	--	--	--	--
MAR											
03...	--	--	--	--	--	--	--	--	--	--	--
30...	14	6.8	5.2	15	.3	.9	79	0	65	7.4	2.1
APR											
21...	--	--	--	--	--	--	--	--	--	--	--
MAY											
27...	--	--	--	--	--	--	--	--	--	--	--
JUN											
29...	--	--	--	--	--	--	--	--	--	--	--
JUL											
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
31...	--	--	--	--	--	--	--	--	--	--	--

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

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
OCT 31...	--	--	--	--	--	--	.13	.59	.72	.13
NOV 25...	--	--	--	--	--	--	--	--	--	--
DEC 22...	.1	18	74	93	.10	2540	.25	.40	.65	.05
JAN 19...	--	--	--	--	--	--	.26	.38	.64	.04
MAR 03...	--	--	--	--	--	--	.09	.33	.42	.14
30...	.1	14	87	90	.12	3880	.02	.21	.23	.05
APR 21...	--	--	--	--	--	--	.08	.22	.30	.05
MAY 27...	--	--	--	--	--	--	.00	.19	.19	.02
JUN 29...	--	--	--	--	--	--	--	--	--	--
JUL 27...	--	--	--	--	--	--	--	--	--	--
AUG 31...	--	--	--	--	--	--	.11	.29	.40	.07

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)
DEC 22...	1420	2	0	2	10	9	1	10	10	0	<50	<50
MAR 30...	1255	1	1	0	<10	<9	1	0	0	0	<50	<50

DATE	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)
DEC 22...	0	20	18	2	990	100	<100	<97	3	30	20
MAR 30...	0	<10	<9	1	1100	70	<100	<96	4	30	30

DATE	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC 22...	10	--	--	.1	0	0	0	10	0	20	--
MAR 30...	0	.0	.0	.0	0	0	0	10	0	10	1.5

DATE	TIME	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
MAR 03...	1430	88	98	<.9	1.9	3.2	3.3	2.6	2.6	.03	.10

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ATRAZINE (UG/L)	TOTAL CHLORDANE (UG/L)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MATERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MATERIAL (UG/KG)
NOV 25...	1345	ND	--	ND	ND	--	ND	--	ND	--	ND	--
MAR 03...	1430	ND	--	ND	ND	--	ND	--	ND	--	ND	--
MAY 27...	1530	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	TOTAL DIAZINON (UG/L)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	TOTAL DIELDRIN (UG/L)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MATERIAL (UG/KG)	TOTAL HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	TOTAL HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)
NOV 25...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--
MAR 03...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--
MAY 27...	ND	ND	ND	.0	ND	ND	ND	ND	ND	ND	ND	ND

DATE	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL MALATHION (UG/L)	MALATHION IN BOTTOM MATERIAL (UG/KG)	TOTAL METHOXYCHLOR (UG/L)	METHOXYCHLOR IN BOTTOM MATERIAL (UG/KG)	TOTAL METHYL PARATHION (UG/L)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	TOTAL METHYL TRITHION (UG/L)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	TOTAL PARATHION (UG/L)
NOV 25...	ND	--	ND	--	ND	--	ND	--	ND	--	ND
MAR 03...	ND	--	ND	--	ND	--	ND	--	ND	--	ND
MAY 27...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	PARATHION IN BOTTOM MATERIAL (UG/KG)	TOTAL TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	TOTAL TRITHION (UG/L)	TRITHION IN BOTTOM MATERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	2,4-D IN BOTTOM MATERIAL (UG/KG)	TOTAL 2,4,5-T (UG/L)	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	TOTAL SILVEX (UG/L)	SILVEX IN BOTTOM MATERIAL (UG/KG)
NOV 25...	--	ND	--	ND	--	ND	--	ND	--	ND	--
MAR 03...	--	ND	--	ND	--	ND	--	ND	--	ND	--
MAY 27...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND Material specifically analyzed for but not detected.

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY ....GENUS .....SPECIES		COMMON NAME		COUNT (CELLS/ML)	PERCENT OF TOTAL
OCT 31	1400	CHLOROPHYTA		GREEN ALGAE			
		.CHLOROPHYCEAE					
		..CHLOROCOCCALES					
		...OOCYSTACEAE					
		....KIRCHNERIELLA				26	2
		...SCENEDESMACEAE					
		....SCENEDESMUS				100	6
					TOTALS	130	8
		CHRYSOPHYTA					
		.BACILLARIOPHYCEAE		DIATOMS			
		..PENNALES		PENNATE			
		...ACHNANTHACEAE					
		....ACHNANTHES				26	2
		....COCCONEIS				150	10
	L	....RHOICOSPHENIA					0
		...CYMBELLACEAE					
		....CYMBELLA				77	5
		....EPITHEMIA				200	13
		....RHOPALODIA				26	2
		...DIATOMACEAE					
		....DIATOMA				26	2
		...EUNOTIACEAE					
		....EUNOTIA				26	2
		...FRAGILARIACEAE					
	L	....SYNEDRA					0
		...GOMPHONEMATACEAE					
		....GOMPHONEMA				51	3
		...NAVICULACEAE		NAVICULOID			
	D	....NAVICULA				460	29
		....PINNULARIA				26	2
		....STAURONEIS				26	2
		...NITZSCHIACEAE					
	D	....NITZSCHIA				360	23
					TOTALS	1,500	95
		TOTAL PHYTOPLANKTON				1,600	
NOV 25	1345	CHLOROPHYTA		GREEN ALGAE			
		.CHLOROPHYCEAE					
		..CHLOROCOCCALES					
		...OOCYSTACEAE					
		....TETRAEDRON				41	5
		..ZYGNEMATALES					
		...DESMIDIACEAE		PLACODERM DESMIDS			
		....COSMARIUM				41	5
					TOTALS	81	10
		CHRYSOPHYTA					
		.BACILLARIOPHYCEAE		DIATOMS			
		..CENTRALES		CENTRIC			
		...COSCINODISCACEAE					
		....CYCLOTELLA				120	14
		..PENNALES		PENNATE			
		...CYMBELLACEAE					
		....EPITHEMIA				41	5
		...FRAGILARIACEAE					
		....SYNEDRA				41	5
		...GOMPHONEMATACEAE					
	L	....GOMPHONEMA					0
		...NAVICULACEAE		NAVICULOID			
	D	....NAVICULA				160	19
		...NITZSCHIACEAE					
	D	....NITZSCHIA				240	29
					TOTALS	610	72
		CYANOPHYTA		BLUE-GREEN ALGAE			
		.MYXOPHYCEAE					
		..OSCILLATORIALES		FILAMENTOUS			
		...NOSTOCACEAE					
	L	....ANABAENA					0
		...OSCILLATORIACEAE					
	D	....OSCILLATORIA				160	19
					TOTALS	160	19
		TOTAL PHYTOPLANKTON				850	

NOTE.--See footnote at end of table.

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY ....GENUS .....SPECIES	COMMON NAME		COUNT (CELLS/ML)	PERCENT OF TOTAL
DEC 22	1420	CHLOROPHYTA	GREEN ALGAE			
		.CHLOROPHYCEAE				
		..CHLOROCOCCALES				
		...OOCYSTACEAE				
		....KIRCHNERIELLA			24	6
				TOTALS	24	6
		CHRYSOPHYTA				
		.BACILLARIOPHYCEAE	DIATOMS			
		..CENTRALES	CENTRIC			
		...COSCINODISCACEAE				
	L	....CYCLOTELLA				0
	D	....MELOSIRA			120	28
		..PENNALES	PENNATE			
		...ACHNANTHACEAE				
	L	....COCCONEIS				0
		...CYMBELLACEAE				
	L	....EPITHEMIA				0
		...DIATOMACEAE				
	L	....DIATOMA				0
		...GOMPHONEMATACEAE				
		....GOMPHONEMA			24	6
		...NAVICULACEAE	NAVICULOID			
	L	....NAVICULA				0
		...NITZSCHIACEAE				
		....NITZSCHIA			49	11
				TOTALS	200	45
		CYANOPHYTA	BLUE-GREEN ALGAE			
		.MYXOPHYCEAE				
		..OSCILLATORIALES	FILAMENTOUS			
		...NOSTOCACEAE				
	D	....ANABAENA			220	50
				TOTALS	220	50
		TOTAL PHYTOPLANKTON			440	
JAN 19	1410	CHLOROPHYTA	GREEN ALGAE			
		.CHLOROPHYCEAE				
		..CHLOROCOCCALES				
		...SCENEDESMACEAE				
		....SCENEDESMUS			33	10
				TOTALS	33	10
		CHRYSOPHYTA				
		.BACILLARIOPHYCEAE	DIATOMS			
		..CENTRALES	CENTRIC			
		...COSCINODISCACEAE				
		....CYCLOTELLA			33	10
		....MELOSIRA			8	2
		..PENNALES	PENNATE			
		...ACHNANTHACEAE				
		....ACHNANTHES			16	5
		....COCCONEIS			8	2
		....RHOICOSPHENIA			25	7
		...CYMBELLACEAE				
	L	....CYMBELLA				0
		....EPITHEMIA			25	7
		...DIATOMACEAE				
		....DIATOMA			33	10
		...FRAGILARIACEAE				
	L	....HANNAEA				0
		....SYNEDRA			33	10
		...GOMPHONEMATACEAE				
		....GOMPHONEMA			25	7
		...NAVICULACEAE	NAVICULOID			
	D	....NAVICULA			74	22
		...NITZSCHIACEAE				
	L	....HANTZSCHIA				0
		....NITZSCHIA			16	5
				TOTALS	300	87
		PYRRHOPHYTA	FIRE ALGAE			
		.DINOPHYCEAE	DINOFLAGELLATES			
		..PERIDINIALES				
		...GLENODINIACEAE				
	L	....GLENODINIUM				0
		TOTAL PHYTOPLANKTON			330	

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY ....GENUS .....SPECIES		COMMON NAME		COUNT (CELLS/ML)	PERCENT OF TOTAL
MAR 3	1430	CHRYSOPHYTA					
		.BACILLARIOPHYCEAE		DIATOMS			
		..CENTRALES		CENTRIC			
		...COSCINODISCACEAE					
		D ....CYCLOTELLA				850	94
		..PENNALES		PENNATE			
		...NAVICULACEAE		NAVICULOID			
		L ....NAVICULA					0
		...NITZSCHIACEAE					
		....NITZSCHIA				57	6
					TOTALS	910	100
		TOTAL PHYTOPLANKTON				910	
MAR 30	1255	CHRYSOPHYTA					
		.BACILLARIOPHYCEAE		DIATOMS			
		..CENTRALES		CENTRIC			
		...COSCINODISCACEAE					
		D ....CYCLOTELLA				1,600	88
		..PENNALES		PENNATE			
		...ACHNANTHACEAE					
		....RHOICOSPHENIA				53	3
		...CYMBELLACEAE					
		L ....CYMBELLA					0
		...DIATOMACEAE					
		L ....DIATOMA					0
		...GOMPHONEMATACEAE					
		....GOMPHONEMA				53	3
		...NAVICULACEAE		NAVICULOID			
		....NAVICULA				53	3
		...NITZSCHIACEAE					
		....NITZSCHIA				53	3
					TOTALS	1,800	100
		TOTAL PHYTOPLANKTON				1,800	
APR 21	1400	CHLOROPHYTA		GREEN ALGAE			
		.CHLOROPHYCEAE					
		..CHLOROCOCCALES					
		...SCENEDESMACEAE					
		....ACTINASTRUM				7	2
					TOTALS	7	2
		CHRYSOPHYTA					
		.BACILLARIOPHYCEAE		DIATOMS			
		..CENTRALES		CENTRIC			
		...COSCINODISCACEAE					
		D ....CYCLOTELLA				240	48
		....MELOSIRA				60	12
		L ....STEPHANODISCUS					0
		..PENNALES		PENNATE			
		...ACHNANTHACEAE					
		....ACHNANTHES				22	5
		....COCCONEIS				7	2
		....RHOICOSPHENIA				7	2
		...CYMBELLACEAE					
		....CYMBELLA				45	9
		...DIATOMACEAE					
		....DIATOMA				22	5
		...GOMPHONEMATACEAE					
		....GOMPHONEMA				7	2
		...NAVICULACEAE		NAVICULOID			
		....NAVICULA				7	2
		...NITZSCHIACEAE					
		....NITZSCHIA				45	9
					TOTALS	460	96
		EUGLENOPHYTA		EUGLENOIDS			
		.EUGLENOPHYCEAE					
		..EUGLENALES					
		...EUGLENACEAE					
		....TRACHELOMONAS				22	5
					TOTALS	22	5
		TOTAL PHYTOPLANKTON				490	

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY ....GENUS .....SPECIES	COMMON NAME		COUNT (CELLS/ML)	PERCENT OF TOTAL
MAY 27	1530	CHLOROPHYTA	GREEN ALGAE			
		.CHLOROPHYCEAE				
		..CHLOROCOCCALES				
		...OOCYSTACEAE				
		....ANKISTRODESMUS			28	3
		....DACTYLOCOCCUS			55	5
		....DICTYOSPHAERIUM			55	5
		....OOCYSTIS			14	1
		...SCENEDESMACEAE				
		....SCENEDESMUS			55	5
				TOTALS	210	19
		CHRYSOPHYTA				
		.BACILLARIOPHYCEAE	DIATOMS			
		..CENTRALES	CENTRIC			
		...COSCINODISCACEAE				
		D ....CYCLOTELLA			390	38
		..PENNALES	PENNATE			
		...ACHNANTHACEAE				
		....ACHNANTHES			41	4
		....COCCONEIS			28	3
		....RHOICOSPHENIA			14	1
		...CYMBELLACEAE				
		....CYMBELLA			41	4
		...DIATOMACEAE				
		....DIATOMA			96	10
		...FRAGILARIACEAE				
		....FRAGILARIA			28	3
		....HANNAEA			14	1
		....SYNEDRA			14	1
		...GOMPHONEMATACEAE				
		....GOMPHONEMA			41	4
		...NAVICULACEAE	NAVICULOID			
		....NAVICULA			28	3
		...NITZSCHIACEAE				
		....NITZSCHIA			69	7
				TOTALS	800	79
		TOTAL PHYTOPLANKTON			1,000	

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
Oct. 31	49	12	5.8	16	2.0	390	Polyethylene strip
Mar. 30	27	.40	.30	.00	.00	0	Polyethylene strip

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	112	122	136	125	146	---	159				
2	---	135	122	134	123	146	---	143				
3	---	114	122	131	128	149	---	136				
4	---	123	182	131	129	143	---	146				
5	---	113	172	134	123	144	---	---				
6	---	134	136	134	---	141	---	---				
7	---	135	135	133	---	144	---	138				
8	---	110	140	135	---	151	---	138				
9	---	109	148	134	124	135	---	135				
10	---	133	123	134	---	144	---	---				
11	---	---	126	133	---	144	---	143				
12	---	114	122	133	---	151	---	142				
13	---	110	174	134	123	153	---	---				
14	---	111	179	138	123	145	---	114				
15	---	113	---	134	123	145	144	114				
16	---	118	124	157	---	145	143	134				
17	---	124	128	151	---	149	143	114				
18	---	125	124	154	---	145	143	114				
19	---	123	124	156	---	146	136	114				
20	---	100	123	157	---	145	143	112				
21	---	100	112	160	---	148	144	114				
22	---	99	122	157	---	144	143	135				
23	---	---	120	153	---	141	134	---				
24	---	104	120	156	---	148	131	---				
25	---	121	123	158	---	146	131	---				
26	---	117	120	171	---	148	130	---				
27	---	122	136	122	115	141	---	---				
28	---	121	135	122	136	145	---	---				
29	---	124	134	122	149	144	---	---				
30	---	---	134	126	---	148	---	---				
31	122	---	---	123	---	150	---	---				
MONTH	---	117	134	140	---	146	---	---				

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.5	--	6.0
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.0	--	6.5
3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.0	--	6.0
4	--	--	--	--	--	--	--	--	--	--	--	--	7.5	--	6.5	7.5	--	7.0
5	--	--	--	--	--	--	--	--	--	--	--	--	6.5	--	6.0	7.5	--	7.5
6	--	--	--	--	--	--	--	--	--	--	--	--	6.0	--	5.5	7.5	--	7.0
7	--	--	--	--	--	--	--	--	--	--	--	--	5.5	--	5.0	7.0	--	7.0
8	--	--	--	--	--	--	--	--	--	--	--	--	5.5	--	5.0	7.0	--	7.0
9	--	--	--	--	--	--	--	--	--	--	--	--	5.5	--	5.0	7.0	--	6.5
10	--	--	--	--	--	--	--	--	--	--	--	--	5.5	--	5.0	7.0	--	6.5
11	--	--	--	--	--	--	--	--	--	--	--	--	5.5	--	5.0	6.5	--	6.5
12	--	--	--	--	--	--	--	--	--	--	--	--	6.5	--	5.0	6.5	--	6.0
13	--	--	--	--	--	--	--	--	--	--	--	--	6.5	--	6.0	6.5	--	6.0
14	--	--	--	--	--	--	--	--	--	--	--	--	6.5	--	6.0	6.5	--	6.5
15	--	--	--	--	--	--	--	--	--	--	--	--	6.0	--	6.0	7.5	--	6.5
16	--	--	--	--	--	--	--	--	--	--	--	--	6.0	--	5.5	7.5	--	6.5
17	--	--	--	--	--	--	--	--	--	--	--	--	6.0	--	5.5	8.0	--	6.5
18	--	--	--	--	--	--	--	--	--	--	--	--	6.0	--	5.5	8.0	--	7.0
19	--	--	--	--	--	--	--	--	--	--	7.0	--	6.0	--	5.5	8.0	--	7.0
20	--	--	--	--	--	--	--	--	--	--	--	--	6.0	--	5.5	8.0	--	6.5
21	--	--	--	--	--	--	--	--	--	--	--	--	6.0	--	5.5	8.0	--	7.0
22	--	--	--	--	--	--	--	6.0	--	--	--	--	6.0	--	5.5	8.5	--	7.0
23	--	--	--	--	--	--	--	--	--	--	--	--	5.5	--	5.5	8.5	--	8.0
24	--	--	--	--	--	--	--	--	--	--	--	--	5.5	--	5.5	8.5	--	8.0
25	--	--	--	--	7.5	--	--	--	--	--	--	--	5.5	--	5.5	8.5	--	7.5
26	--	--	--	--	--	--	--	--	--	--	--	--	5.5	--	5.0	9.0	--	8.5
27	--	--	--	--	--	--	--	--	--	--	--	--	5.0	--	5.0	9.0	--	8.0
28	--	--	--	--	--	--	--	--	--	--	--	--	5.0	--	5.0	9.5	--	8.5
29	--	--	--	--	--	--	--	--	--	--	--	--	6.0	--	5.0	9.5	--	8.0
30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10.0	--	9.5
31	--	11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	10.0	--	9.5
MONTH	--	--	--	--	--	--	--	--	--	--	--	--	7.5	--	5.0	10.0	--	6.0

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	APR			MAY			JUN			JUL			AUG			SEP		
	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN
1	10.0	--	9.5	14.5	--	14.0	15.0	--	14.5	21.0	--	18.5	23.0	--	20.0	20.0	--	18.5
2	10.0	--	9.5	15.0	--	14.5	15.0	--	14.5	21.5	--	18.5	21.5	--	20.0	22.0	--	17.5
3	10.0	--	10.0	15.0	--	14.5	15.5	--	14.5	21.0	--	19.0	21.0	--	19.5	22.0	--	18.5
4	10.5	--	10.0	15.0	--	14.5	16.0	--	14.5	23.0	--	19.5	21.5	--	19.0	22.0	--	18.5
5	10.5	--	10.5	15.0	--	14.5	16.0	--	15.0	23.0	--	20.0	21.5	--	19.5	21.5	--	18.5
6	11.0	--	11.0	15.0	--	14.5	15.5	--	15.5	22.5	--	20.0	20.0	--	18.5	22.5	--	18.5
7	11.0	--	11.0	15.5	--	15.0	15.5	--	15.0	23.0	--	20.5	19.5	--	18.5	22.0	--	18.5
8	11.0	--	11.0	15.5	--	15.0	16.0	--	15.0	22.5	--	21.0	22.0	--	18.5	23.0	--	18.5
9	11.0	--	11.0	16.0	--	15.5	16.0	--	15.5	23.0	--	20.5	22.5	--	19.5	23.0	--	19.0
10	11.0	--	11.0	15.5	--	15.5	16.0	--	15.5	23.5	--	20.5	23.0	--	20.0	22.0	--	19.0
11	11.0	--	10.5	15.5	--	15.5	16.0	--	15.5	23.0	--	20.5	21.0	--	19.5	21.0	--	18.5
12	11.5	--	11.5	15.5	--	15.5	16.0	--	15.5	23.5	--	20.5	22.0	--	18.5	21.0	--	18.0
13	12.0	--	11.5	16.0	--	15.5	17.0	--	15.5	23.5	--	21.0	20.0	--	18.0	21.0	--	18.0
14	12.0	--	12.0	16.5	--	16.0	18.0	--	16.0	24.0	--	21.0	18.5	--	17.5	20.5	--	17.5
15	12.5	--	12.0	16.0	--	16.0	18.5	--	16.5	24.0	--	21.0	17.5	--	16.5	21.0	--	17.0
16	12.5	--	12.0	16.0	--	15.5	19.5	--	17.5	23.0	--	21.0	18.0	--	17.0	19.0	--	16.5
17	12.5	--	12.5	15.5	--	15.5	19.5	--	18.0	21.5	--	20.0	17.5	--	17.0	20.0	--	16.0
18	12.5	--	12.5	15.5	--	15.5	19.5	--	18.0	20.0	--	19.0	19.0	--	17.5	19.5	--	17.0
19	13.0	--	13.0	15.5	--	15.5	19.5	--	18.0	22.0	--	18.5	20.0	--	18.0	20.0	--	17.0
20	13.5	--	13.0	15.5	--	15.5	19.0	--	18.0	21.0	--	19.5	21.0	--	18.5	18.5	--	17.0
21	14.0	--	13.5	15.5	--	15.5	18.0	--	17.0	22.5	--	19.0	20.5	--	19.0	19.5	--	17.0
22	14.0	--	14.0	15.5	--	15.5	18.5	--	16.5	23.0	--	19.5	20.5	--	18.5	19.5	--	16.5
23	14.0	--	13.5	16.0	--	15.5	20.0	--	17.5	23.5	--	20.5	20.0	--	18.5	19.5	--	16.5
24	14.0	--	13.5	16.0	--	15.5	21.0	--	18.0	24.5	--	20.5	22.0	--	18.5	19.5	--	16.5
25	14.0	--	14.0	16.0	--	15.5	21.0	--	18.5	24.5	--	21.0	22.0	--	19.0	17.5	--	16.0
26	14.0	--	13.5	16.5	--	15.5	21.0	--	18.5	25.0	--	21.0	22.0	--	18.5	18.0	--	15.5
27	14.0	--	13.5	16.5	--	16.0	21.0	--	18.5	25.0	--	21.0	22.0	--	18.5	17.0	--	16.0
28	14.0	--	13.5	16.0	--	15.5	21.0	--	18.5	24.0	--	21.0	22.0	--	19.0	19.5	--	15.5
29	14.0	--	13.5	16.0	--	15.0	21.5	--	19.0	22.5	--	21.0	22.0	--	19.0	20.0	--	16.5
30	14.5	--	14.0	15.0	--	15.0	21.5	--	19.0	22.0	--	20.0	22.5	--	19.0	20.0	--	17.0
31	--	--	--	15.0	--	14.5	--	--	--	24.0	--	20.0	22.0	--	19.0	--	--	--
MONTH	14.5	--	9.5	16.5	--	14.0	21.5	--	14.5	25.0	--	18.5	23.0	--	16.5	23.0	--	15.5

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
OCT									
31...	1355	11.0	18500	--	194	9690	--	--	--
NOV									
25...	1345	7.5	11200	11100	71	2150	--	--	--
DEC									
22...	1430	6.0	--	12600	44	1500	--	--	--
JAN									
19...	1405	7.0	--	16600	68	3050	--	--	--
MAR									
03...	1430	6.0	37500	36400	221	22400	25	31	40
30...	1255	10.0	16500	16000	49	2180	--	--	--
APR									
21...	1400	14.0	13600	13400	34	1250	--	--	--
JUN									
29...	1250	20.0	--	3800	9	92	--	--	--
JUL									
27...	1420	23.0	--	2430	8	52	--	--	--
AUG									
31...	1325	21.5	3000	--	6	49	--	--	--

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT								
31...	--	--	37	46	78	95	100	--
NOV								
25...	--	--	40	--	--	--	--	--
DEC								
22...	--	--	34	41	69	96	100	--
JAN								
19...	--	--	37	42	54	85	95	100
MAR								
03...	50	58	64	73	85	98	100	--
30...	--	--	61	67	81	98	100	--
APR								
21...	--	--	54	59	74	100	--	--
JUN								
29...	--	--	54	--	--	--	--	--
JUL								
27...	--	--	52	--	--	--	--	--
AUG								
31...	--	--	63	--	--	--	--	--

11532500 SMITH RIVER NEAR CRESCENT CITY, CA

LOCATION.--Lat 41°47'22", long 124°03'14", in SW¼SW¼ sec.10, T.16 N., R.1 E. (unsurveyed), Del Norte County, Six Rivers National Forest, on left bank 0.5 mi (0.8 km) downstream from South Fork, and 8 mi (13 km) east of Crescent City.

DRAINAGE AREA.--609 mi^2 (1,577 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1931 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 89.61 ft (27.313 m) above mean sea level.

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

AVERAGE DISCHARGE.--45 years, 3,872 ft^3/s (109.7 m^3/s), 2,805,000 acre-ft/yr (3.46 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 228,000 ft^3/s (6,460 m^3/s) Dec. 22, 1964, gage height, 48.5 ft (14.78 m) from floodmarks, from rating curve extended above 110,000 ft^3/s (3,120 m^3/s) on basis of slope-area measurement at gage height 39.51 ft (12.043 m); minimum daily, 160 ft^3/s (4.53 m^3/s) Oct. 24, 25, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 36,000 ft^3/s (1,020 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Nov. 15	1045	40500	1150	24.08	7.340	Jan. 8	1100	41900	1190	24.33	7.416
Dec. 4	1615	42400	1200	24.43	7.446	Feb. 26	0830	*45400	1290	24.97	7.611

Minimum daily discharge, 212 ft^3/s (6.00 m^3/s) Oct. 1-3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	212	3330	15800	2610	1650	8690	4400	2310	1210	540	335	341
2	212	2500	8600	2380	1590	6880	4000	2280	1020	504	339	336
3	212	2140	5760	2240	1530	5680	3680	2120	939	484	363	327
4	214	1790	21700	2520	1480	4900	3480	2060	880	479	363	320
5	217	1650	18600	6730	1420	4310	3570	1980	849	469	363	316
6	241	1760	16300	6840	1380	3890	3770	1920	830	459	367	311
7	330	8200	9940	6980	1340	3610	4200	1870	806	454	371	294
8	323	5400	7020	28200	1310	3360	5690	1970	800	464	371	287
9	348	4100	5460	16100	1270	3140	4730	1980	770	484	351	287
10	596	7400	4510	9670	1230	3020	5310	1920	764	459	335	280
11	645	6130	3960	10500	1190	2890	5520	1760	746	454	324	277
12	410	4210	4000	12500	1190	2710	4730	1630	740	489	320	275
13	327	3320	3500	10300	1910	2530	4440	1660	729	454	324	275
14	292	3800	3150	9990	2520	2490	3800	1610	683	432	440	277
15	275	25700	2880	8710	2820	2400	3400	1480	661	420	1090	287
16	269	12600	2710	7000	15700	2350	3060	1410	644	408	2240	281
17	282	7930	2560	5860	11300	2390	2910	1360	634	416	1290	303
18	505	5620	2370	5030	10500	2700	3060	1310	617	436	892	294
19	402	4330	2200	4360	7450	2780	2870	1270	602	420	752	281
20	327	4010	2050	3840	6070	2620	2780	1230	576	404	623	273
21	345	3730	2090	3420	5060	2660	2770	1190	576	396	545	271
22	596	3360	3360	3100	4410	3680	2740	1170	576	387	499	268
23	592	3230	3120	2850	4130	4830	2720	1150	560	383	469	264
24	446	2890	2790	2610	4000	10800	2900	1130	540	379	450	261
25	6310	2650	2570	2410	16100	9430	2890	1130	524	371	428	256
26	8380	2700	3360	2250	31700	6740	2620	1090	509	359	409	253
27	6660	2970	4420	2110	21100	5580	2460	1060	504	355	396	253
28	5520	2680	3510	2000	19100	5490	2330	1060	489	347	384	253
29	3270	2420	3100	1910	11900	5070	2210	1030	484	343	372	256
30	10100	4580	3120	1810	---	4620	2170	1110	494	343	359	252
31	5510	---	2840	1720	---	4830	---	1300	---	335	349	---
TOTAL	54368	147130	177350	188550	192350	137070	105210	47550	20756	13127	16513	8509
MEAN	1754	4904	5721	6082	6633	4422	3507	1534	692	423	533	284
MAX	10100	25700	21700	28200	31700	10800	5690	2310	1210	540	2240	341
MIN	212	1650	2050	1720	1190	2350	2170	1030	484	335	320	252
AC-FT	107800	291800	351800	374000	381500	271900	208700	94320	41170	26040	32750	16880

CAL YR 1975 TOTAL 1616989 MEAN 4430 MAX 78700 MIN 212 AC-FT 3207000
WTR YR 1976 TOTAL 1108483 MEAN 3029 MAX 31700 MIN 212 AC-FT 2199000

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952 to current year.
CHEMICAL ANALYSES: Water years 1952 to current year.
WATER TEMPERATURES: Water years 1966 to current year.
SEDIMENT RECORDS: Water years 1955-56.

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

INSTRUMENTATION.--Temperature recorder since October 1965.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1967-69, 1971-75), 24.5°C July 15, 1972, July 26, 27, 1973; minimum (water years 1967-70, 1972-74, 1976), 0.5°C Dec. 10, 11, 1972.

EXTREMES FOR CURRENT YEAR.--Water temperatures: Minimum, 4.0°C Jan. 2.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT							
07...	0640	316	150	8.2	14.0	1	9.6
NOV							
04...	0700	1860	107	7.4	10.0	1	10.9
DEC							
01...	1600	14500	82	7.4	10.0	10	11.7
JAN							
06...	0740	6960	90	7.3	7.5	3	11.8
FEB							
02...	1640	1580	92	7.5	8.0	0	12.5
MAR							
02...	0755	7050	79	7.2	5.0	5	12.5
APR							
06...	0740	3890	88	7.4	7.5	0	12.0
MAY							
04...	0745	2100	92	7.6	11.5	0	11.3
JUN							
07...	1530	806	115	7.8	13.0	0	10.5
JUL							
12...	1630	494	132	8.2	20.0	0	10.4
AUG							
03...	0720	343	145	7.6	18.0	0	9.9
SEP							
13...	1600	275	147	8.0	17.5	1	10.4

DATE	TIME	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
FEB											
02...	1640	47	0	2.1	.1	58	0	48	2.5	--	--
APR											
06...	0740	42	3	1.8	.1	47	0	39	3.1	.01	.00

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (P04) (MG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL ZINC (ZN) (UG/L)
FEB										
02...	--	--	--	0	--	--	--	--	--	--
APR										
06...	.01	.00	.00	0	0	0	20	0	0	20

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	6.5	12.0	11.0	13.0	12.0	19.0	19.0	---	---	20.5	19.5
2	8.5	6.5	12.0	10.0	14.0	11.5	19.0	19.0	---	---	20.0	19.0
3	9.5	7.5	12.5	10.0	15.0	13.0	19.0	19.0	---	---	19.5	18.5
4	10.5	8.0	12.5	11.0	15.5	13.5	19.0	19.0	---	---	19.5	18.5
5	10.5	9.0	12.5	10.5	15.0	14.0	19.0	19.0	---	---	19.5	18.5
6	10.0	8.5	13.0	11.0	15.0	14.0	19.0	19.0	---	---	19.5	19.0
7	9.5	8.5	14.0	11.5	14.5	14.0	19.5	19.5	---	---	19.0	17.5
8	9.5	8.0	14.5	12.5	16.0	13.5	19.5	19.5	---	---	18.5	17.0
9	9.0	8.0	14.5	12.5	15.5	14.5	19.5	19.5	---	---	19.5	18.0
10	8.5	8.0	14.5	13.0	14.5	14.0	19.5	19.5	---	---	19.5	18.5
11	9.0	7.5	14.0	11.5	14.5	14.0	19.5	19.5	---	---	19.0	18.5
12	9.0	8.0	15.5	12.5	14.0	14.0	19.5	19.5	---	---	18.5	17.5
13	10.0	7.5	16.0	14.0	16.5	13.5	21.0	19.0	---	---	18.0	17.0
14	9.5	8.0	15.5	13.5	17.5	15.0	21.5	19.5	---	---	18.0	17.5
15	9.5	8.5	15.5	13.5	18.5	16.5	22.0	20.0	---	---	18.0	17.0
16	9.0	7.5	15.0	12.5	19.5	17.5	21.0	20.0	---	---	18.0	17.0
17	8.5	7.5	13.5	11.0	20.0	17.5	20.5	18.5	---	---	18.5	17.5
18	10.0	8.0	14.0	12.0	19.5	18.0	18.5	18.0	---	---	18.0	17.5
19	10.5	8.0	14.0	12.5	19.5	18.0	20.5	18.5	---	---	18.5	17.5
20	11.5	9.5	14.5	12.5	19.0	17.5	19.5	18.5	---	---	18.0	17.0
21	11.0	9.5	15.5	13.0	17.5	16.0	19.5	17.5	---	---	18.0	17.0
22	10.0	9.0	15.0	13.5	17.5	15.0	19.5	17.5	---	---	17.5	16.5
23	10.0	9.0	15.0	13.5	18.5	16.5	19.5	18.5	---	---	18.0	17.0
24	10.5	9.0	14.5	13.5	18.5	18.5	20.0	18.0	19.0	18.5	18.0	17.0
25	10.5	8.5	16.0	13.0	18.5	18.5	20.5	19.0	19.5	18.5	17.5	16.5
26	10.0	8.0	16.5	14.5	18.5	18.5	22.0	19.0	19.0	17.5	17.0	16.0
27	10.5	8.5	16.5	14.0	18.5	18.5	---	---	19.0	17.5	16.5	16.0
28	11.0	9.0	15.0	12.5	18.5	18.5	---	---	20.0	19.0	17.0	16.0
29	11.0	9.5	14.5	13.0	19.0	19.0	---	---	21.0	19.5	17.5	16.5
30	12.5	9.5	13.0	12.5	19.0	19.0	---	---	20.5	19.5	17.5	16.5
31	---	---	13.0	12.0	---	---	---	---	20.5	19.5	---	---
MONTH	12.5	6.5	16.5	10.0	20.0	11.5	22.0	17.5	---	---	20.5	16.0

11532620 MILL CREEK NEAR CRESCENT CITY, CA

LOCATION.--Lat 41°44'32", long 124°06'06", in NE¼NE¼ sec.31, T.16 N., R.1 E., Del Norte County, Redwood National Park, on left bank 200 ft (61 m) downstream from small left-bank tributary, 0.9 mi (1.4 km) downstream from confluence of West Branch and East Fork Mill Creeks, and 4.9 mi (7.9 km) east of Crescent City.

DRAINAGE AREA.--28.6 mi^2 (74.1 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 180 ft (55 m), from topographic map.

REMARKS.--Records good. Minor regulation and diversion above station for lumber mill and park campground use.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,460 ft^3/s (126 m^3/s) Mar. 18, 1975, gage height, 8.51 ft (2.594 m); minimum daily, 2.5 ft^3/s (0.071 m^3/s) Oct. 2-5, 23, 24, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,100 ft^3/s (31 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Nov. 15	0930	1200	34.0	4.24	1.292	Jan. 8	0830	1940	54.9	5.18	1.579
Dec. 4	1500	*2280	64.6	5.69	1.734	Feb. 16	1045	1470	41.6	4.59	1.399

Minimum daily discharge, 3.2 ft^3/s (0.091 m^3/s) Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	155	587	103	53	321	144	48	24	10	5.5	6.2
2	3.5	107	357	94	50	259	132	48	21	9.4	5.5	6.2
3	3.4	83	242	88	49	214	118	45	19	9.3	5.5	6.2
4	3.4	67	1150	92	47	183	105	44	18	9.3	5.5	6.2
5	3.2	86	976	161	45	157	98	42	19	9.3	5.5	6.2
6	4.5	90	836	177	43	134	103	40	18	8.9	5.5	5.5
7	10	284	479	195	42	120	149	38	18	8.4	5.9	5.3
8	9.0	194	321	1240	41	109	185	38	17	9.4	6.0	5.3
9	16	141	236	665	40	96	168	36	16	10	5.5	5.1
10	30	214	183	391	39	88	342	35	16	9.9	4.9	4.9
11	30	188	160	403	37	79	321	34	16	9.7	4.6	4.5
12	17	141	160	533	37	74	236	33	16	9.8	4.6	4.5
13	13	113	139	440	114	69	185	32	16	8.8	5.5	4.5
14	10	122	127	342	129	66	152	31	16	8.0	16	4.9
15	9.0	765	116	266	118	62	134	29	15	7.5	36	5.1
16	7.8	461	107	211	754	59	113	29	14	7.3	45	4.5
17	11	321	98	174	572	56	105	29	13	7.5	26	4.5
18	26	236	88	149	497	67	96	28	13	7.9	20	4.5
19	18	183	81	127	413	72	86	27	13	8.1	16	4.5
20	14	176	75	101	318	64	79	27	13	8.0	14	4.5
21	16	154	86	94	236	61	74	26	12	7.4	12	4.5
22	29	134	144	94	185	105	72	26	12	7.0	11	4.5
23	30	116	122	86	163	112	67	25	12	7.0	11	4.4
24	21	101	107	84	152	384	67	25	12	6.9	10	4.2
25	388	90	98	75	483	325	64	23	11	6.2	9.3	4.2
26	280	101	122	69	515	229	59	22	11	6.0	8.1	4.2
27	306	111	125	66	592	183	58	21	10	5.7	8.1	4.2
28	247	98	111	62	644	177	55	21	9.9	5.7	8.1	4.4
29	199	88	107	59	444	152	53	21	9.3	5.5	7.5	4.4
30	515	171	113	56	---	132	50	24	10	5.5	7.0	4.0
31	262	---	109	54	---	152	---	27	---	5.5	6.5	---
TOTAL	2535.4	5291	7762	6751	6852	4361	3670	974	440.2	244.9	341.6	146.1
MEAN	81.8	176	250	218	236	141	122	31.4	14.7	7.90	11.0	4.87
MAX	515	765	1150	1240	754	384	342	48	24	10	45	6.2
MIN	3.2	67	75	54	37	56	50	21	9.3	5.5	4.6	4.0
AC-FT	5030	10490	15400	13390	13590	8650	7280	1930	873	486	678	290

CAL YR 1975 TOTAL 62004.7 MEAN 170 MAX 2980 MIN 3.2 AC-FT 123000
WTR YR 1976 TOTAL 39369.2 MEAN 108 MAX 1240 MIN 3.2 AC-FT 78090

11532620 MILL CREEK NEAR CRESCENT CITY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to current year.
CHEMICAL ANALYSES: Water years 1974-75.
WATER TEMPERATURES: Water years 1974 to current year.
SEDIMENT RECORDS: Water years 1974 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: February 1974 to current year.

INSTRUMENTATION.--Temperature recorder since February 1974.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 23.5°C July 25, 1974; minimum, 3.5°C Feb. 6, 1976.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 21.0°C July 14; minimum, 3.5°C Feb. 6.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

11532620 MILL CREEK NEAR CRESCENT CITY, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT					
02...	1255	14.0	3.5	6	.06
NOV					
11...	1350	9.0	185	7	3.5
DEC					
17...	1220	7.0	101	3	.82
JAN					
23...	1305	8.0	88	2	.48
FEB					
24...	1415	8.5	134	4	1.4
MAY					
25...	1045	11.5	23	2	.12
JUN					
23...	1100	13.5	12	4	.13
AUG					
04...	1030	16.0	5.5	2	.03
24...	1340	17.5	10	3	.08

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low- or flood-flow analyses, depending on the type of data collected. 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 1976

Station No.	Station name		Drainage area (mi^2)	Period of record	Measurements	
					Date	Discharge (ft^3/s)
		Klamath River basin				
11512000	Fall Creek at Copco, CA	NE¼ sec.36, T.48 N., R.5 W., Siskiyou County, 1,500 ft (457 m) upstream from mouth and 0.8 mi (1.3 km) south of Fall Creek powerplant and Copco Post Office.	14.6	1928-59‡, 1964-76	8-4-76 9-14-76	a 37.5 a 41.9
11516528	Bogus Creek near Hornbrook, CA	NE¼ sec.17, T.47 N., R.3 W., Siskiyou County, 0.5 mi (0.8 km) downstream from Iron Gate Dam and 6.0 mi (9.7 km) northeast of Hornbrook.	53.5	1965-76	8-4-76 9-14-76	a 15.1 a 14.1
11517800	Beaver Creek near Klamath River, CA	NE¼SW¼ sec.30, T.47 N., R.8 W., Siskiyou County, 1.9 mi (3.1 km) upstream from mouth and 14.8 mi (23.8 km) northwest of Yreka.	106	1953-58, 1959-65‡, 1967-76	8-4-76 9-14-76	a 55.4 a 25.6
11518200	South Fork Scott River near Callahan, CA	SW¼SE¼ sec.20, T.40 N., R.8 W., Siskiyou County, opposite unnamed tributary 1.1 mi (1.8 km) southwest of Callahan, and 1.5 mi (2.4 km) upstream from East Fork Scott River.	42.5	1958-60‡, 1964, 1966-76	8-5-76 9-15-76	a 22.7 a 8.44
11520800	Thompson Creek near Happy Camp, CA	SE¼ sec.17, T.17 N., R.8 E., Siskiyou County, 50 ft (15 m) upstream from highway bridge, 0.1 mi (0.2 km) upstream from mouth, and 6.0 mi (9.7 km) northeast of Happy Camp.	34.9	1968-76	8-3-76 9-14-76	a 19.3 a 15.2
11522200	Elk Creek near Happy Camp, CA	NE¼ 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	1956-64‡, 1967-76	8-3-76 9-14-76	a 47.1 a 33.4
11523700	Coffee Creek near Trinity Center, CA	NW¼SW¼ sec.2, T.37 N., R.8 W., Trinity County, 0.8 mi (1.3 km) upstream from Little Boulder Creek, 3.2 mi (5.1 km) upstream from mouth, and 8 mi (13 km) northwest of new location of Trinity Center.	107	1957-66‡, 1968-76	8-2-76 9-15-76	a 56.6 a 41.2
11525520	Deadwood Creek at Lewiston, CA	SW¼NW¼ sec.17, T.33 N., R.8 W., Trinity County, 300 ft (91 m) upstream from mouth and 0.7 mi (1.7 km) northeast of Lewiston.	9.10	1965-76	4-5-76 4-13-76 8-5-76 9-3-76	2.50 16.1 a .67 a .27

‡ Operated as a continuous-record gaging station.
a Base flow.

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 1976

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Napa River basin					
11455865	Blossom Creek near Calistoga, CA	Lat 38°35'36", long 122°36'47", in Carne Humana Grant, Napa County, on left bank at upstream side of private road bridge, 1.1 mi (1.8 km) upstream from mouth, and 2.2 mi (3.5 km) northwest of Calistoga.	2.01	1976a	--	--	b
11455880	Garnett Creek near Calistoga, CA	Lat 38°35'36", long 122°35'26", in Carne Humana Grant, Napa County, on right bank at upstream side of bridge on Greenwood Avenue, 0.6 mi (1.0 km) upstream from mouth, and 1.2 mi (1.9 km) northwest of Calistoga.	7.66	1976a	2-29-76	4.87	33
11455890	Cyrus Creek at Calistoga, CA	Lat 38°34'51", long 122°35'38" in Carne Humana Grant, Napa County, on right bank at downstream side of bridge on State Highway 128, 0.5 mi (0.8 km) upstream from mouth, and 0.8 mi (1.3 km) west of Calistoga.	3.03	1976a	--	--	b
11458140	Milliken Creek at Napa, CA	Lat 38°19'31", long 122°16'24", in Yajome Grant, Napa County, on right bank at upstream side of West Trancas Road bridge, at Napa, and 0.7 mi (1.1 km) upstream from mouth.	20.8	1971-76	--	--	b
11458150	Sarco Creek near Napa, CA	Lat 38°19'56", long 122°15'06", in Tulucay Grant, Napa County, on left bank at culvert on Vichy Avenue, 3 mi (5 km) northwest of Napa.	3.56	1971-76	--	--	b
		San Rafael Creek basin					
11459790	San Rafael Creek at Sirard Lane, at San Rafael, CA	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	1972-76a	10-9-75	50.70	25
11459810	Irwin Creek tributary at San Rafael, CA	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	1972-76	--	--	b
11459820	Irwin Creek tributary No. 2 at San Rafael, CA	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	1972-76	--	--	b
		Russian River basin					
11460940	Russian River near Redwood Valley, CA	Lat 39°19'10", long 123°13'20", in NW¼ sec.20, T.17 N., R.12 W., Mendocino County, on left bank 600 ft (183 km) upstream from Rocky Creek and 3.8 mi (6.1 km) north of town of Redwood Valley.	14.1	1964-68c, 1969-76	3-1-76	5.42	748
11463940	Franz Creek near Kellogg, CA	Lat 38°36'30", long 122°45'35", in Mallacomes Grant, Sonoma County, on left bank at downstream side of highway bridge, 100 ft (30 m) downstream from Bidwell Creek, and 2 mi (3 km) south of Kellogg.	15.7	1956, 1958-62, 1963-68c, 1969-76	2-29-76	3.80	310

See footnotes at end of table.

Annual maximum discharge at crest-stage partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (ft^3/s)
		Albion River basin					
11468010	Albion River near Comptche, CA	Lat 39°15'40", long 123°37'00", in SW¼ sec.11, T.16 N., R.16 W., Mendocino County, on right bank 2,000 ft (610 m) downstream from Morrison Gulch and 1.7 mi (2.7 km) west of Comptche.	14.4	1961-69c, 1970-76	2-29-76	4.69	168
		Eel River basin					
11469600	Hull Creek near Potter Valley, CA	Lat 39°32'39", long 122°55'34", in SW¼NE¼ (revised) sec.35, T.20 N., R.10 W., Mendocino County, Mendocino National Forest, at culvert on Hull Creek Road, 18 mi (29 km) northeast of Potter Valley.	1.49	1970-76	3-1-76	54.58	274
11469650	Corbin Creek near Elk Creek, CA	Lat 39°32'56", long 122°43'28", in NW¼NE¼ sec.35, T.20 N., R.8 W., Glenn County, Mendocino National Forest, at culvert on Elk Creek-Potter Valley Road, 11 mi (18 km) southwest of town of Elk Creek.	6.18	1971-76	--	--	b
11469800	Cold Creek tributary near Elk Creek, CA	Lat 39°26'18", long 122°45'35", Lake County, Mendocino National Forest, at culvert on Pacific Crest Road, 4 mi (6 km) upstream from mouth, and 16.5 mi (26.5 km) southwest of town of Elk Creek.	.81	1969-70c, 1971-76	--	--	b
11472700	Hammerhorn Creek near Covelo, CA	Lat 39°56'42", long 122°59'50", in SW¼SW¼ sec.8, T.24 N., R.10 W., Mendocino County, Mendocino National Forest, at culvert on Six Rivers-Clear Lake road 17 mi (27 km) northeast of Covelo.	3.36	1969-76	--	--	b
11475500	South Fork Eel River near Branscomb, CA	Lat 39°43'09", long 123°39'06" in NW¼ sec.32, T.22 N., R.16 W., Mendocino County, 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	1946-70c, 1972-76	2-26-76	9.20	5630
11475700	Tenmile Creek near Laytonville, CA	Lat 39°45'45", long 123°32'30", in NW¼ sec.16, T.22 N., R.15 W., Mendocino County, 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	1957-74c, 1975-76	2-26-76	11.40	6660
		Klamath River basin					
11522300	South Fork Salmon River near Forks of Salmon, CA	Lat 41°13'20", long 123°15'00", in SE¼ sec.30, T.39 N., R.12 W., Siskiyou County, on left bank 100 ft (30 m) downstream from Methodist Creek and 4.5 mi (7.2 km) southeast of town of Forks of Salmon.	252	1958-66c, 1967-76	11-15-75	8.44	4420
11528400	Hayfork Creek near Hayfork, CA	Lat 40°31'10", long 123°05'05", in SW¼ sec.23, T.31 N., R.11 W., Trinity County, 5.8 mi (9.3 km) southwest of Hayfork.	86.7	1956-66c, 1967-72, 1974-76	2-26-76	7.60	1530
		Smith River basin					
11532000	South Fork Smith River near Crescent City, CA	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	1911-13c, 1954-61c, 1962-76	--	--	b

a Water-quality data published in partial-record section of this report.
b Peak discharge did not reach base of gage.
c Operated as a continuous-record gaging station.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1976

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water year)	Measurements Date	Measurements Discharge (ft^3/s)
		San Lorenzo River basin				
11160030 San Lorenzo river tributary	San Lorenzo River	Lat 37°10'10", long 122°08'05", in NE¼NE¼ sec.12, T.9 S., R.3 W., Santa Cruz County, at culvert on State Highway 9, 3.2 mi (5.1 km) north of town of Boulder Creek.	0.26	1961-73	9-29-76	0
11160036 Kings Creek	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	1973-75	9-29-76	.14
11160045 San Lorenzo River	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	1973-75	9-28-76	.79
11160055 Bear Creek	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	1974-75	9-28-76	.35
11160060 Bear Creek	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	1974-75	9-28-76	.80
11160065 Boulder Creek	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	1974-75	9-28-76	.07
11160070 Boulder Creek [1/]	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	1974-75	3-2-76 9-28-76 9-29-76	33.0 1.5 1.3
11160150 Love Creek	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	1974-75	9-28-76	.28
11160200 Newell Creek	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, 1974-75	9-28-76	.42
11160230 Fall Creek	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	1974-75	9-28-76	1.5

See footnotes at end of table.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1976--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water year)	Measurements Date	Measurements Discharge (ft^3/s)
		San Lorenzo River basin--Continued				
11160250 Fall Creek[1/]	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	1974-75	9-28-76	2.0
11160430 Bean Creek	Zayante Creek	Lat 37°03'14", long 122°02'53", in SE¼ sec.14, T.10 S., R.2 W., Santa Cruz County, 0.8 mi (1.3 km) upstream from mouth, and 1.4 mi (2.3 km) east of Felton.	9.18	1973	9-28-76	3.0
11160450 Zayante Creek	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	1973-75	9-28-76	9.0
11161000 San Lorenzo River	Pacific Ocean	Lat 36°59'20", long 122°01'40", Santa Cruz County, at upstream end of Odd Fellows Cemetary in Santa Cruz, 1.1 mi (1.8 km) upstream from Branciforte Creek, and 2.1 mi (3.4 km) upstream from mouth.	115	1952-60a	9-28-76	12.0
11161400 Carbonera Creek	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	1974-75	9-28-76	11.0
		Alameda Creek basin				
11174200 Alameda Creek[1/]	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	1975	2-19-76 3-2-76 4-8-76	0 0 0
11174600 Alamo Canal[1/]	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.	--	1975	12-1-75 1-15-76 3-3-76 4-8-76 6-3-76 8-25-76	2.49 .76 2.78 5.93 1.88 .44
11176150 Arroyo Las Positas[1/]	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, 1975	3-2-76 3-2-76	4.49 9.53
11177200 Vallecitos Creek[2/]	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	1975	11-11-75 11-26-75 2-3-76 3-23-76 5-12-76 6-23-76 7-20-76	8.55 35.0 12.9 .98 15.7 5.08 55.2
11177300 Sinbad Creek	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	1975	12-1-75 2-19-76 3-2-76	0 0 .05

See footnotes at end of table.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1976--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water year)	Measurements Date	Measurements Discharge (ft^3/s)
		Alameda Creek basin--Continued				
11178400 Stonybrook Creek	Alameda Creek	Lat 37°35'54", long 126°56'51", in SE¼ sec.11, T.4 S., R.1 W., Alameda County, on right bank at culvert on State Highway 84, 50 ft (15 m) upstream from mouth, and 2.5 mi (4.0 km) north of Niles.	6.89 (revised)	1975	3-2-76 3-3-76	0.83 .23
		Napa River basin				
11455860 Napa River[1/]	Pacific Ocean	Lat 38°35'22", long 122°35'48" in Carne Humana Grant, Napa County, on left bank at culvert on Greenwood Avenue, 1.2 mi (1.9 km) northwest of Calistoga.	5.39	--	3-2-76 4-8-76	1.9 1.4
11455865 Blossom Creek[1/]	Napa River	Lat 38°35'36", long 122°36'47", in Carne Humana Grant, Napa County, on left bank at upstream side of private road bridge, 1.1 mi (1.8 km) upstream from mouth, and 2.2 mi (3.5 km) northwest of Calistoga.	2.01	--	3-2-76 4-8-76	.34 .75
11455880 Garnett Creek[1/]	Napa River	Lat 38°35'36", long 122°35'26", in Carne Humana Grant, Napa County, on right bank at upstream side of bridge on Greenwood Avenue, 0.6 mi (1.0 km) upstream from mouth, 1.2 mi (1.9 km) northwest of Calistoga.	7.66	--	1-21-76 3-2-76 4-8-76	.17 6.63 2.86
11455890 Cyrus Creek[1/]	Napa River	Lat 38°34'51", long 122°35'38", in Carne Humana Grant, Napa County, on right bank at downstream side of bridge on State Highway 128, 0.5 mi (0.8 km) upstream from mouth, and 0.8 mi (1.3 km) west of Calistoga.	3.03	--	3-2-76 4-8-76	1.26 1.26

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.

SAN LORENZO RIVER BASIN
11160070 BOULDER CREEK AT BOULDER CREEK, CA

LOCATION.--Lat 37°07'36", long 122°07'18", in NW¼NE¼ sec.30, T.9 S., R.2 W., Santa Cruz County.
DRAINAGE AREA.--11.3 mi² (29.3 km²).
PERIOD OF RECORD.--Water years 1973 to current year.
CHEMICAL ANALYSES: Water years 1973-75.
SEDIMENT RECORDS: Water year 1976.

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
NOV									
03...	1345	10.5	1.3	3	.01	100	--	--	--
MAR									
01...	1420	9.5	5.6	21	.32	96	98	100	--
02...	1245	4.5	34	54	5.0	99	99	99	100
02...	1310	4.5	33	43	3.8	96	98	99	100
02...	1420	4.5	32	44	3.8	92	--	--	--
03...	1350	7.0	6.6	10	.18	91	--	--	--

11160250 FALL CREEK AT FELTON, CA

LOCATION.--Lat 37°03'33", long 122°04'42", in Zayante Grant, Santa Cruz County.
DRAINAGE AREA.--4.94 mi² (12.79 km²).
PERIOD OF RECORD.--Water years 1973 to current year.
CHEMICAL ANALYSES: Water years 1973-75.
SEDIMENT RECORDS: Water year 1976.

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
NOV									
03...	1310	11.5	2.5	9	.06	85	--	--	--
MAR									
01...	1450	9.0	3.4	5	.05	64	--	--	--
02...	1220	--	5.6	10	.15	71	--	--	--
02...	1320	6.0	5.4	8	.12	84	84	94	100
02...	1400	6.0	5.4	8	.12	66	--	--	--
02...	1430	6.0	5.4	6	.09	56	--	--	--
02...	1500	6.0	5.1	6	.08	59	--	--	--
03...	1305	7.0	3.9	4	.04	56	--	--	--

ALAMEDA CREEK BASIN
11174600 ALAMO CANAL NEAR PLEASANTON, CA

LOCATION.--Lat 37°41'10", long 121°54'54", in Santa Rita Grant, Alameda County.
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1975 to current year.
COOPERATION.--Chemical-quality samples were collected by Valley Community Services District.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT									
28...	1030	1.6	1150	--	1	180	16	33	150
JAN									
20...	0910	.19	1510	--	3	440	110	41	230
APR									
27...	1035	1.1	1330	--	3	360	82	38	180
JUL									
20...	1140	.14	1260	8.3	1	390	79	47	210

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ALAMEDA CREEK BASIN--Continued

11174600 ALAMO CANAL NEAR PLEASANTON, CA--Continued

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	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)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT 28...	655	.89	10.1	.82	.02	.84	.09	.10
JAN 20...	880	1.20	.47	.99	.01	1.0	.02	.10
APR 27...	787	1.07	2.34	.25	.00	.25	.01	.10
JUL 20...	819	1.11	.33	.34	.01	.35	.00	.20

11176150 ARROYO LAS POSITAS NEAR LIVERMORE, CA

LOCATION.--Lat 37°41'52", long 121°48'15", in Valle de San Jose Grant, Alameda County.
DRAINAGE AREA.--64.6 mi² (167.3 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1976.
COOPERATION.--Chemical-quality samples were collected by City of Livermore.

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	HARD-NESS (CA,MG) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT 30...	0800	12	1230	70	300	54	39	200

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	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)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT 30...	742	1.01	24.0	1.4	.08	1.5	.04	.00

11179010 SAN FRANCISCO RELEASE AT NILES RESERVOIR, AT NILES, CA

LOCATION.--Lat 37°34'55", long 121°57'35", in SW¼ sec.15, T.4 S., R.1 W., Alameda County.
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1975 to current year.
COOPERATION.--Chemical-quality samples were collected by Alameda County Water District.

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TUR-BID-ITY (JTU)	HARD-NESS (CA,MG) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
NOV 05...	0940	571	--	1	230	59	21	29
MAY 05...	1330	531	8.1	0	200	47	21	24
JUL 21...	0940	--	--	1	250	58	25	33

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
NOV 05...	337	.46	1.7	.00	1.7	.04	.00
MAY 05...	312	.42	1.5	.00	1.5	.00	.10
JUL 21...	360	.49	4.8	.01	4.8	.04	.00

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ALAMEDA CREEK BASIN--Continued

11179040 KAISER PIT AT NILES, CA

LOCATION.--Lat 37°34'08", long 121°58'56", in SW¼ sec.21, T.4 S., R.1 W., Alameda County.
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1975 to current year.
COOPERATION.--Chemical-quality samples were collected by Alameda County Water District.

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
NOV								
05...	0915	792	--	3	230	47	27	92
JAN								
21...	0930	559	--	5	160	30	20	67
MAY								
05...	0930	665	9.0	3	170	34	20	86
JUL								
21...	0920	534	7.5	3	140	33	14	71

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
NOV							
05...	464	.63	2.2	.13	2.3	.03	.00
JAN							
21...	341	.46	4.6	.07	4.7	.02	.00
MAY							
05...	388	.53	5.7	.06	5.8	.02	.10
JUL							
21...	291	.40	5.7	.12	5.8	.00	.00

11179050 SHINN PIT AT NILES, CA

LOCATION.--Lat 37°34'12", long 121°59'15", in Arroyo de la Arroyo Grant, Alameda County.
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1975 to current year.
COOPERATION.--Chemical-quality samples were collected by Alameda County Water District.

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
NOV								
05...	1325	773	--	4	230	46	28	93
JAN								
21...	1355	529	--	3	170	30	22	67
MAY								
05...	1410	673	9.4	3	170	34	20	89

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
NOV							
05...	479	.65	.92	.02	.94	.03	.00
JAN							
21...	333	.45	4.3	.11	4.4	.04	.10
MAY							
05...	400	.54	5.8	.07	5.9	.00	.10

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

NAPA RIVER BASIN
11455850 NAPA RIVER AT TUBBS LANE, NEAR CALISTOGA, CA

LOCATION.--Lat 38°36'03", long 122°35'51", in Carne Humana Grant, Napa County.
DRAINAGE AREA.--4.87 mi^2 (12.61 km^2).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1976.
COOPERATION.--The letter "A" following a date indicates chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT												
14...A	1320	345	16.5	99	7	20	12	31	40	1.4	2.0	112
NOV												
17...A	1230	239	10.0	77	0	15	9.5	16	31	.8	1.8	96
JAN												
12...A	1215	200	15.0	73	0	15	8.6	15	30	.8	1.5	89
FEB												
25...	--	235	--	79	0	16	9.6	16	30	.8	1.2	108
MAR												
08...A	1120	177	9.0	64	0	12	8.3	10	25	.5	1.3	82
MAY												
10...A	1100	204	14.0	71	0	14	8.7	14	30	.7	1.3	96

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
OCT											
14...	--	92	15	44	.4	39	221	.30	.14	1500	250
NOV											
17...	--	79	13	15	.2	44	168	.23	1.2	550	210
JAN											
12...	0	73	15	11	.3	41	154	.21	.38	360	320
FEB											
25...	--	89	12	13	.2	32	154	.21	.06	390	170
MAR											
08...	--	67	11	7.1	.1	33	130	.18	1.5	170	290
MAY											
10...	--	79	11	9.8	.3	38	147	.20	.30	330	470

11455860 NAPA RIVER AT GREENWOOD AVENUE, NEAR CALISTOGA, CA

LOCATION.--Lat 38°35'22", long 122°35'48", in Carne Humana Grant, Napa County.
DRAINAGE AREA.--5.39 mi^2 (13.96 km^2).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1976.
COOPERATION.--The letter "A" following a date indicates chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO
OCT												
14...A	1300	--	1060	16.0	--	110	0	19	16	160	74	6.5
NOV												
17...A	1145	--	643	10.0	--	66	0	11	9.3	100	75	5.4
JAN												
12...A	1200	--	650	15.0	--	71	0	12	10	110	76	5.7
FEB												
25...	1130	--	764	--	--	73	0	13	9.8	120	77	6.1
MAR												
02...	1115	1.9	545	7.0	15	59	0	11	7.6	91	76	5.2
08...A	1200	--	574	10.5	--	57	0	10	7.8	89	76	5.1
APR												
08...	1150	1.4	596	12.0	15	52	0	9.0	7.1	110	80	6.7
MAY												
10...A	1125	--	584	14.5	--	70	0	12	9.6	95	74	5.0

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

NAPA RIVER BASIN--Continued
11455860 NAPA RIVER AT GREENWOOD AVENUE, NEAR CALISTOGA, CA--Continued

DATE	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)
OCT											
14...	5.2	156	--	128	42	220	5.1	62	612	.83	--
NOV											
17...	4.1	137	--	112	19	110	4.1	55	387	.53	--
JAN											
12...	4.0	148	0	121	24	110	4.7	59	412	.56	--
FEB											
25...	3.9	166	--	136	22	130	6.8	64	452	.61	--
MAR											
02...	3.6	133	--	109	19	93	8.5	51	357	.49	1.85
08...	3.4	138	--	113	18	91	4.3	59	356	.48	--
APR											
08...	5.0	116	--	95	28	110	4.6	39	377	.51	1.43
MAY											
10...	3.4	159	--	130	12	88	4.1	59	366	.50	--

DATE	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT											
14...	.14	--	--	4600	--	--	240	--	--	--	--
NOV											
17...	.23	--	--	5100	--	--	440	--	--	--	--
JAN											
12...	.63	--	--	2400	--	--	460	--	--	--	--
FEB											
25...	.04	130	200	600	10	380	320	27	180	6	330
MAR											
02...	.47	--	--	4300	--	--	430	--	--	--	--
08...	.17	--	--	4200	--	--	570	--	--	--	--
APR											
08...	.36	--	--	5300	--	--	450	--	--	--	--
MAY											
10...	.02	--	--	4200	--	--	480	--	--	--	--

11455865 BLOSSOM CREEK NEAR CALISTOGA, CA

LOCATION.--Lat 38°35'36", long 122°36'47", in Carne Humana Grant, Napa County.
DRAINAGE AREA.--2.01 mi^2 (5.21 km^2).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1976.
COOPERATION.--The letter "A" following a date indicates chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)
JAN									
12...A	1235	--	175	13.0	--	60	3	11	7.9
MAR									
02...	1235	.34	136	7.5	25	44	0	9.2	5.0
08...A	1100	--	135	9.0	--	38	0	9.0	3.7
APR									
08...	1500	.75	127	11.5	55	41	2	8.4	4.9
MAY									
10...A	1045	--	130	12.0	--	40	0	9.2	4.1

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

NAPA RIVER BASIN--Continued
11455865 BLOSSOM CREEK NEAR CALISTOGA, CA--Continued

DATE	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
JAN									
12...	14	33	.8	2.5	69	0	57	16	9.5
MAR									
02...	10	32	.7	2.4	54	--	44	11	7.6
08...	11	37	.8	2.4	55	--	45	13	6.6
APR									
08...	10	33	.7	2.8	48	--	39	12	7.4
MAY									
10...	11	36	.8	2.4	56	--	46	11	6.5

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
JAN								
12...	.2	45	141	.19	--	.20	60	60
MAR								
02...	.1	40	113	.15	.10	.20	40	340
08...	.1	50	128	.17	--	.91	20	660
APR								
08...	.1	37	111	.15	.22	1.0	50	160
MAY								
10...	.1	49	122	.17	--	.08	20	400

11455880 GARNETT CREEK NEAR CALISTOGA, CA

LOCATION.--Lat 38°35'36", long 122°35'26", in Carne Humana Grant, Napa County.
DRAINAGE AREA.--7.66 mi^2 (19.84 km^2).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1976.
COOPERATION.--The letter "A" following a date indicates chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)
OCT									
14...A	1230	--	213	15.0	--	73	0	20	5.6
NOV									
17...A	1120	--	137	10.0	--	50	13	13	4.2
JAN									
12...A	1145	--	160	9.0	--	55	10	14	4.9
MAR									
02...	1135	6.6	125	7.5	--	54	13	16	3.3
08...A	1140	--	142	10.5	--	49	5	13	4.0
APR									
08...	1220	2.9	133	14.0	4	51	6	13	4.6
MAY									
10...A	1115	--	148	14.0	--	52	3	13	4.7
JUL									
12...A	1130	--	200	19.0	--	63	1	17	5.1

DATE	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT									
14...	14	29	.7	1.7	89	--	73	13	15
NOV									
17...	7.1	23	.4	1.4	45	--	37	16	4.9
JAN									
12...	9.5	27	.6	1.4	55	0	45	19	5.9
MAR									
02...	6.9	21	.4	1.4	50	--	41	16	4.1
08...	7.6	25	.5	1.4	54	--	44	19	4.3
APR									
08...	7.5	23	.5	1.4	55	--	45	19	5.5
MAY									
10...	8.5	26	.5	1.2	60	--	49	17	5.5
JUL									
12...	12	29	.7	1.6	76	--	62	11	9.9

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

NAPA RIVER BASIN--Continued
11455880 GARNETT CREEK NEAR CALISTOGA, CA--Continued

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
OCT								
14...	.6	36	150	.20	--	.02	340	30
NOV								
17...	.1	32	102	.14	--	.23	70	40
JAN								
12...	.4	36	120	.16	--	.26	100	50
MAR								
02...	.1	27	100	.14	1.79	.16	30	80
08...	.1	32	112	.15	--	.83	50	60
APR								
08...	.1	34	113	.15	.88	.18	60	10
MAY								
10...	.1	35	115	.16	--	.03	80	70
JUL								
12...	.2	45	140	.19	--	--	200	60

11455890 CYRUS CREEK AT CALISTOGA, CA

LOCATION.--Lat 38°34'51", long 122°35'38", in Carne Humana Grant, Napa County.
DRAINAGE AREA.--3.03 mi^2 (7.85 km^2).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1976.
COOPERATION.--The letter "A" following a date indicates chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
MAR								
02...	1400	1.3	139	7.5	10	38	0	8.9
08...A	1040	--	128	11.0	--	33	0	7.6
APR								
08...	1410	1.3	108	12.5	20	30	0	6.7
MAY								
10...A	1030	--	142	13.5	--	40	0	9.4

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
MAR									
02...	3.8	14	42	1.0	3.2	61	50	9.4	6.7
08...	3.4	11	39	.8	3.4	54	44	9.1	5.8
APR									
08...	3.3	12	43	.9	3.6	54	44	6.5	5.4
MAY									
10...	4.1	12	37	.8	3.9	64	53	8.1	6.5

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
MAR								
02...	.1	42	121	.16	.42	.59	40	120
08...	.1	43	117	.16	--	1.6	40	110
APR								
08...	1.4	37	106	.14	.37	.42	1700	180
MAY								
10...	.1	52	129	.18	--	.17	40	180

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

NAPA RIVER BASIN--Continued

11458050 NAPA RIVER AT NAPA, CA

LOCATION.--Lat 38°19'30", long 122°17'29", in Napa Grant, Napa County.
DRAINAGE AREA.--234 mi² (606 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1976.
COOPERATION.--Chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT												
14...	1000	405	14.5	160	18	28	22	27	26	.9	3.0	174
NOV												
17...	1500	417	10.0	150	9	26	20	25	27	.9	2.8	168
JAN												
12...	0920	460	14.0	140	14	26	19	37	35	1.3	2.9	158
MAR												
08...	0830	330	10.0	110	8	21	15	24	31	1.0	2.5	129
MAY												
10...	0900	404	18.0	150	9	24	22	28	28	1.0	2.7	173
JUL												
12...	1405	8400	25.0	1400	1300	160	250	1500	69	17	48	160

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
OCT											
14...	--	143	28	31	.2	28	260	.35	1.6	390	10
NOV											
17...	--	138	33	27	.3	29	255	.35	1.8	660	30
JAN											
12...	0	130	33	49	.4	27	282	.38	2.0	670	30
MAR											
08...	--	106	28	21	.4	29	211	.29	1.4	470	90
MAY											
10...	--	142	27	25	.3	19	236	.32	.43	440	20
JUL											
12...	--	131	380	3000	.0	19	5440	7.40	--	1400	40

11458310 NAPA RIVER AT THIRD STREET, AT NAPA, CA

LOCATION.--Lat 38°17'54", long 122°16'58", in Entre Napa Grant, Napa County.
DRAINAGE AREA.--283 mi² (733 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1976.
COOPERATION.--Chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT												
14...	0900	7530	15.5	820	710	63	160	1300	76	20	52	133
NOV												
17...	0830	3700	10.0	430	310	44	78	560	72	12	26	149
JAN												
12...	0820	6500	13.0	740	610	64	140	1200	77	19	50	151
MAR												
08...	0800	3910	10.0	410	320	39	76	620	75	13	27	106
MAY												
10...	0830	10500	19.0	1200	1000	99	220	1800	76	23	73	153
JUL												
12...	1425	26800	24.5	2900	2800	200	580	4800	77	39	180	157

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

NAPA RIVER BASIN--Continued
11458310 NAPA RIVER AT THIRD STREET, AT NAPA, CA--Continued

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
OCT 14...	--	109	290	2300	.2	16	4250	5.78	.34	710	10
NOV 17...	--	122	140	1700	.2	24	2650	3.60	.89	600	40
JAN 12...	0	124	350	2100	.4	21	4010	5.45	1.1	900	50
MAR 08...	--	87	160	1100	.4	24	2100	2.86	.94	520	140
MAY 10...	--	126	430	3200	.4	12	5910	8.04	.09	1000	70
JUL 12...	--	129	1100	9100	.8	11	16100	21.9	--	380	50

RUSSIAN RIVER BASIN
DRY CREEK NEAR ASTI, CA

LOCATION.--Lat 38°43'46", long 123°02'17", in SE¼NE¼ sec.11, T.10 N., R.11 W., Sonoma County.
DRAINAGE AREA.--92.3 mi² (239.1 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1974 to current year.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
OCT 22...	0950	2.9	273	8.3	15.0	1	10.8	108	130	8
MAR 08...	0955	79	197	7.9	10.0	1	11.2	100	88	0
APR 09...	0855	202	173	8.1	10.0	20	11.2	100	77	0
JUN 15...	1145	1.9	260	8.0	24.0	1	10.7	129	110	2

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT 22...	30	13	13	18	.5	1.0	147	0	116	21
MAR 08...	20	9.3	9.7	19	.5	.8	112	0	89	15
APR 09...	17	8.4	8.3	19	.4	.8	100	0	85	13
JUN 15...	26	12	14	21	.6	1.1	137	0	114	18

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)
OCT 22...	6.0	.1	12	169	.23	1.33	.05	.05	.00	.00
MAR 08...	3.7	.2	14	129	.18	27.7	.06	.07	.03	.04
APR 09...	3.5	.1	13	114	.16	62.2	.04	.02	.03	.03
JUN 15...	5.8	.4	13	159	.22	.82	.02	.02	.00	.02

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

RUSSIAN RIVER BASIN
DRY CREEK NEAR ASTI, CA--Continued

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-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (P04) (MG/L)
OCT 22...	.02	.00	.02	.02	.00	.07	.10	.02	.06
MAR 08...	.27	.01	.30	.25	.05	.36	.02	.01	.03
APR 09...	.35	.08	.38	.27	.11	.42	.08	.01	.03
JUN 15...	.10	.06	.10	.02	.08	.12	.02	.02	.06

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM (CR) (UG/L)
OCT 22...	0950	0	--	4	550	0	--	<1	10
MAR 08...	0955	1	0	8	260	<10	0	1	0
APR 09...	0855	1	0	6	190	<10	0	1	10
JUN 15...	1145	--	1	5	540	0	0	<10	20

DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)
OCT 22...	--	37	0	--	10	10	0	--	5
MAR 08...	0	29	<10	1	13	10	3	2	10
APR 09...	0	9	20	0	4	20	3	2	10
JUN 15...	0	30	2	2	20	0	4	4	10

DATE	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	SUS-PENDED ORGANIC CARBON (C) (MG/L)
OCT 22...	.2	.2	.0	0	--	41	--	2.3	.2
MAR 08...	.0	.0	.1	20	0	23	4.7	--	--
APR 09...	.1	.1	.1	10	0	90	3.3	--	--
JUN 15...	--	--	.1	10	20	30	5.6	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

RUSSIAN RIVER BASIN--Continued
WARM SPRINGS CREEK ABOVE LITTLE WARM SPRINGS CREEK, AT SKAGGS SPRINGS, CA

LOCATION.--Lat 38°41'42", long 123°01'39", in SW¼SE¼ sec.24, T.10 N., R.11 W., Sonoma County.
DRAINAGE AREA.--30.7 mi² (79.5 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1974 to current year.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
OCT										
23...	1245	1.7	248	7.3	13.5	9	10.3	100	110	0
MAR										
08...	1055	25	184	7.6	9.5	2	10.7	95	85	0
APR										
09...	1030	81	159	8.2	10.0	20	11.2	100	71	0
JUN										
15...	1000	1.2	240	7.7	22.5	1	10.3	120	100	0
AUG										
18...	1105	.05	290	7.4	18.5	1	5.9	63	120	0

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT										
23...	24	11	11	18	.5	.8	137	0	100	17
MAR										
08...	20	8.6	8.1	17	.4	.9	106	0	83	15
APR										
09...	16	7.5	6.8	17	.4	.6	90	0	73	10
JUN										
15...	23	11	12	20	.5	.9	135	0	116	13
AUG										
18...	27	12	15	22	.6	1.2	153	0	130	13

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)
OCT										
23...	4.9	.2	12	149	.20	.70	.01	.01	.00	.02
MAR										
08...	3.1	.2	15	123	.17	8.37	.01	.01	.04	.02
APR										
09...	3.5	.1	15	104	.14	22.7	.07	.03	.03	.04
JUN										
15...	3.5	.3	14	145	.20	.47	.00	.00	.02	.01
AUG										
18...	5.8	.2	16	166	.23	.02	.18	.00	.01	.00

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	SUSPENDED KJEL. NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)
OCT									
23...	.14	--	.14	--	--	.15	.04	.01	.03
MAR									
08...	.18	--	.22	--	--	.23	.01	.01	.03
APR									
09...	.17	.15	.20	.01	.19	.27	.07	.01	.03
JUN									
15...	.24	.06	.26	.19	.07	.26	.01	.00	.00
AUG									
18...	.07	.14	.08	.00	.14	.26	.04	.00	.00

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

RUSSIAN RIVER BASIN--Continued
WARM SPRINGS CREEK ABOVE LITTLE WARM SPRINGS CREEK, AT SKAGGS SPRINGS, CA--Continued

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)
OCT 23...	1245	0	--	--	3	200	0	--	--	0	28	--
MAR 08...	1055	0	--	0	5	80	<10	--	0	1	10	--
APR 09...	1030	0	--	0	5	60	<10	--	0	1	0	--
JUN 15...	1000	0	--	0	3	200	0	--	0	<10	10	--
AUG 18...	1105	1	1	0	300	570	20	20	0	1	0	0

DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)
OCT 23...	--	15	0	--	--	9	30	2	--	--	10
MAR 08...	0	44	<10	--	1	14	10	3	--	1	14
APR 09...	0	23	30	--	1	11	30	4	--	0	10
JUN 15...	0	30	6	--	4	30	40	7	--	3	20
AUG 18...	0	1	<10	<9	1	15	30	1	1	0	4

DATE	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)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	SUS-PENDED ORGANIC CARBON (C) (MG/L)
OCT 23...	.1	--	.1	.0	0	--	--	17	--	1.0	.2
MAR 08...	.0	--	.0	.1	0	--	0	37	1.0	--	--
APR 09...	.0	--	.0	.4	10	--	0	120	2.6	--	--
JUN 15...	.3	--	.3	.0	20	--	20	30	2.6	--	--
AUG 18...	.0	.0	.0	.2	10	10	0	15	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

RUSSIAN RIVER BASIN--Continued
LITTLE WARM SPRINGS CREEK AT SKAGGS SPRINGS, CA

LOCATION.--Lat 38°41'41", long 123°01'34", in SW¼SE¼ sec.24, T.10 N., R.11 W., Sonoma County.
DRAINAGE AREA.--1.92 mi^2 (4.97 km^2).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1974 to current year.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
OCT										
23...	1030	.10	1730	7.9	13.0	1	10.4	100	120	0
MAR										
08...	1105	.64	641	7.6	12.5	3	11.4	107	120	0
APR										
09...	0945	2.4	340	8.0	11.0	9	10.8	99	100	0
JUN										
15...	0930	.06	2070	7.7	19.5	2	8.9	98	140	0
AUG										
18...	1050	.06	3390	8.2	20.0	2	3.4	38	140	0

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT										
23...	28	13	460	87	18	16	1360	0	1000	16
MAR										
08...	26	13	110	66	4.4	4.3	403	0	317	22
APR										
09...	22	11	40	46	1.7	2.1	208	0	169	15
JUN										
15...	30	15	580	89	22	20	1660	0	1290	11
AUG										
18...	33	15	850	91	31	26	2410	0	1910	11

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)
OCT										
23...	31	4.3	51	1330	1.81	.36	.26	.25	.11	.07
MAR										
08...	9.9	1.2	23	419	.57	.72	.13	.13	.04	.03
APR										
09...	5.1	.4	16	218	.30	1.42	.03	.02	.04	.02
JUN										
15...	39	5.2	73	1600	2.18	.26	.34	.34	.04	.04
AUG										
18...	58	9.1	88	2370	3.22	.38	.47	.38	.00	.02

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	SUSPENDED KJEL. NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (P04) (MG/L)
OCT									
23...	.48	.27	.59	.25	.34	.85	.14	.13	.40
MAR									
08...	.03	--	.07	--	--	.20	.03	.03	.09
APR									
09...	.42	.03	.46	.41	.05	.49	.05	.01	.03
JUN									
15...	.21	.11	.25	.10	.15	.59	.14	.13	.40
AUG									
18...	.30	.23	.30	.05	.25	.77	.28	.33	1.0

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

RUSSIAN RIVER BASIN--Continued
LITTLE WARM SPRINGS CREEK AT SKAGGS SPRINGS, CA--Continued

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)
OCT 23...	1030	37	--	--	10	43000	0	--	--	1	44	--
MAR 08...	1105	10	--	10	8	9700	<10	--	0	1	0	--
APR 09...	0945	3	--	2	8	3200	<10	--	0	1	20	--
JUN 15...	0930	61	--	53	10	2900	0	--	0	<10	10	--
AUG 18...	1050	100	0	100	400	88000	40	40	0	1	0	0

DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)
OCT 23...	--	16	0	--	--	13	20	4	--	--	10
MAR 08...	0	46	<10	--	1	20	20	3	--	2	14
APR 09...	0	31	40	--	0	17	0	6	--	0	10
JUN 15...	0	30	5	--	0	20	40	11	--	6	20
AUG 18...	0	1	10	10	0	19	120	1	0	4	16

DATE	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)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	SUS-PENDED ORGANIC CARBON (C) (MG/L)
OCT 23...	.2	--	.0	.1	1	--	--	27	--	8.0	.1
MAR 08...	.0	--	.0	1.9	0	--	0	47	1.1	--	--
APR 09...	.1	--	.0	5.2	40	--	0	125	2.8	--	--
JUN 15...	.4	--	.0	.1	20	--	10	40	2.7	--	--
AUG 18...	.0	.0	.0	2.8	10	10	0	38	3.7	--	--

SAN RAFAEL CREEK BASIN
11459790 SAN RAFAEL CREEK AT SIRARD LANE, AT SAN RAFAEL, CA

LOCATION.--Lat 37°59'04", long 122°32'58", in San Pedro Santa Margarita Las Gallinas Grant, Marin County.
DRAINAGE AREA.--0.19 mi^2 (0.49 km^2).
PERIOD OF RECORD.--
SEDIMENT RECORDS: Water years 1972-76 (discontinued).

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM
MAR 02...	1145	9.0	.92	112	.28	99	100
APR 08...	1020	12.5	1.1	121	.36	99	100

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

REDWOOD CREEK BASIN

11482020 REDWOOD CREEK AT REDWOOD VALLEY BRIDGE, NEAR BLUE LAKE, CA

LOCATION.--Lat 40°57'48", long 123°50'20", in NW¼SE¼ sec.28, T.7 N., R.3 E., Humboldt County.
DRAINAGE AREA.--95.9 mi^2 (248.4 km^2).
PERIOD OF RECORD.--Water years 1974 to current year.
CHEMICAL ANALYSES: Water years 1974 to current year.
SEDIMENT RECORDS: Water years 1974 to current year.
REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies", Data Release Numbers 1 and 2.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
FEB						
26...	0945	3850	8.5	4060	42200	57
26...	1000	3850	8.5	--	--	--
26...	1100	3600	8.0	2960	28800	75
26...	1130	3500	8.0	2560	24200	77
26...	1210	3700	8.0	2100	21000	79
26...	1230	3400	8.0	1980	18200	77
26...	1300	3330	8.0	2360	21200	59
26...	1400	3330	8.0	--	--	--
26...	1500	3300	8.5	1600	14300	70
26...	1600	3170	8.5	1640	14000	63
26...	1645	3170	8.5	1750	15000	61
26...	1730	3170	8.0	--	--	--
26...	1810	3140	8.0	1400	11900	64
MAY						
14...	1415	100	19.0	2	.54	--

DATE	TIME	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	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
FEB												
26...	0945	17	18	28	38	49	57	66	78	86	93	98
26...	1300	16	22	32	41	52	59	68	79	89	94	98
26...	1645	17	23	33	43	53	61	70	82	90	95	99

DATE	TIME	NUMBER OF SAMPLING POINTS	STREAM WIDTH (FT)	SEDIMENT BEDLOAD DISCHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM
FEB								
26...	1000	5	117	5150	1	2	9	19
26...	1400	5	117	3300	--	2	10	21
26...	1730	5	117	3870	--	2	6	9

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 76.0 MM
FEB							
26...	37	53	63	71	80	82	100
26...	34	53	68	81	94	100	--
26...	19	38	57	72	83	96	100

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

REDWOOD CREEK BASIN
11482110 LACKS CREEK NEAR ORICK, CA

LOCATION.--Lat 41°03'39", long 123°51'57", unsurveyed, Humboldt County.
DRAINAGE AREA.--17.0 mi^2 (44.0 km^2).
PERIOD OF RECORD.--Water years 1975 to current year.
CHEMICAL ANALYSES: Water years 1975 to current year.
SEDIMENT RECORDS: Water year 1975.
REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies", Data Release Number 2.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)
NOV			
18...	1420	105	--
DEC			
19...	1255	32	--
JAN			
23...	1715	32	--
MAR			
01...	1355	260	--
MAY			
05...	1200	16	--
21...	1035	6.4	13.0
JUN			
07...	1410	5.6	14.0

11482120 REDWOOD CREEK ABOVE PANTHER CREEK, NEAR ORICK, CA

LOCATION.--Lat 41°05'21", long 123°54'23", unsurveyed, Humboldt County.
DRAINAGE AREA.--150 mi^2 (389 km^2).
PERIOD OF RECORD.--Water years 1974 to current year.
CHEMICAL ANALYSES: Water years 1974 to current year.
SEDIMENT RECORDS: Water years 1974 to current year.
REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies", Data Release Numbers 1 and 2.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
FEB						
26...	0855	5820	9.5	4600	72300	54
26...	1205	5650	--	--	--	--
26...	1235	5550	--	3900	58400	57
26...	1345	5310	--	--	--	--
26...	1440	5250	10.0	3150	44700	59
26...	1535	5000	--	--	--	--
26...	1630	4800	11.0	2620	34000	58
26...	1645	4780	11.0	2730	35200	54
26...	1735	4800	--	--	--	--
26...	1805	4750	10.0	2130	27300	62
26...	1815	4700	10.0	2460	31200	54
27...	1305	3200	10.0	1680	14500	44
27...	1530	3410	10.0	1290	11900	61
27...	1555	3600	--	--	--	--
27...	1620	3700	10.0	2300	23000	39
MAY						
20...	1145	135	14.0	2	.73	--
JUN						
24...	1325	49	21.5	--	--	--

DATE	TIME	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	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
FEB												
26...	1805	17	22	33	43	54	62	72	84	94	98	100
27...	1530	15	23	33	43	53	61	69	80	91	97	99

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

REDWOOD CREEK BASIN
11482120 REDWOOD CREEK ABOVE PANTHER CREEK, NEAR ORICK, CA--Continued

DATE	TIME	NUMBER OF SAM-PLING POINTS	STREAM WIDTH (FT)	SEDI-MENT BEDLOAD DIS-CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIFVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM
FEB								
26...	1205	5	111	3470	2	5	15	26
26...	1535	5	111	5150	1	2	6	12
26...	1735	5	111	2280	1	2	9	19
27...	1555	5	114	4380	1	1	5	12

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 76.0 MM
FEB							
26...	40	55	67	78	84	100	--
26...	23	41	62	80	92	97	100
26...	37	58	73	85	94	97	100
27...	25	45	70	86	96	100	--

REDWOOD CREEK BASIN
11482140 HIGH-SLOPE SCHIST CREEK NEAR ORICK, CA

LOCATION.--Lat 41°07'25", long 123°56'51", unsurveyed, Humboldt County.
DRAINAGE AREA.--0.53 mi^2 (1.37 km^2).
PERIOD OF RECORD.--Water years 1974 to current year.
CHEMICAL ANALYSES: Water years 1974 to current year.
SEDIMENT RECORDS: Water years 1974 to current year.
REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies", Data Release Numbers 1 and 2.

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT								
30...	1530	1.9	--	--	10.0	803	4.1	100
DEC								
17...	1100	2.4	57	7.0	8.0	--	--	--
17...	1300	2.4	--	--	8.0	15	.10	71
FEB								
25...	1220	6.7	--	--	8.5	1	.02	--
MAR								
29...	1305	5.3	--	--	--	3	.04	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

REDWOOD CREEK BASIN
11482210 BRIDGE CREEK NEAR ORICK, CA

LOCATION.--Lat 41°11'32", long 123°58'52", unsurveyed, Humboldt County, Redwood National Park.
DRAINAGE AREA.--11.6 mi^2 (30.0 km^2).
PERIOD OF RECORD.--Water years 1973 to current year.
CHEMICAL ANALYSES: Water years 1973 to current year.
SEDIMENT RECORDS: Water years 1974 to current year.
REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies", Data Release Numbers 1 and 2.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT								
28...	1400	60	--	--	--	1620	262	27
NOV								
07...	1320	46	--	--	--	--	--	--
07...	1345	46	--	--	--	743	92	32
21...	1245	65	--	--	8.0	515	90	42
21...	1300	65	--	--	8.0	--	--	--
DEC								
01...	1215	179	--	--	--	1420	686	44
01...	1330	179	--	--	--	--	--	--
JAN								
07...	1230	54	78	7.5	8.0	87	13	73
23...	1200	43	--	--	7.5	7	.81	--
FEB								
13...	1415	47	--	--	9.0	44	5.6	80
13...	1430	47	--	--	9.0	--	--	--
28...	1200	331	--	--	9.0	1660	1480	25
28...	1400	331	--	--	9.0	1380	1230	33
28...	1405	331	--	--	9.0	--	--	--
28...	1430	331	62	7.3	8.5	--	--	--
MAY								
21...	1215	14	--	--	13.5	2	.08	--
SEP								
21...	1215	2.2	--	--	15.5	--	--	--

DATE	TIME	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
FEB							
28...	1400	33	37	46	64	85	100

DATE	TIME	NUMBER OF SAMPLING POINTS	STREAM WIDTH (FT)	SEDIMENT BEDLOAD DISCHARGE (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
NOV								
07...	1320	4	23	454	--	1	1	10
21...	1300	15	33	248	--	1	2	9
DEC								
01...	1330	5	36	1360	--	1	1	5
FEB								
13...	1430	5	26	.19	1	4	4	44
28...	1405	3	39	1700	--	--	1	4

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								
07...	20	33	50	70	89	100	--	--
21...	21	35	50	67	82	100	--	--
DEC								
01...	11	25	48	62	77	94	100	--
FEB								
13...	73	89	100	--	--	--	--	--
28...	9	15	23	44	73	87	97	100

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

REDWOOD CREEK BASIN

11482220 REDWOOD CREEK ABOVE HARRY WIER CREEK, NEAR ORICK, CA

LOCATION.--Lat 41°11'50", long 123°59'30", unsurveyed, Humboldt County, Redwood National Park.
DRAINAGE AREA.--202 mi^2 (523 km^2).
PERIOD OF RECORD.--Water years 1973 to current year.
CHEMICAL ANALYSES: Water years 1973 to current year.
SEDIMENT RECORDS: Water years 1974 to current year.
REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies", Data Release Numbers 1 and 2.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
DEC						
06...	1245	3840	--	1400	14500	57
06...	1300	3840	--	--	--	--
FEB						
19...	1145	2490	--	521	3500	65
19...	1235	2490	--	--	--	--
26...	0945	7320	9.0	3460	68400	71
26...	1000	7320	9.0	--	--	--
26...	1030	7400	9.0	4030	80500	66
26...	1055	7450	9.0	--	--	--
26...	1135	7400	9.0	3940	78700	--
26...	1200	7400	9.0	--	--	--
26...	1325	7360	9.0	4290	85300	56
26...	1405	7070	9.0	--	--	--
26...	1450	6700	9.0	3730	67500	--
26...	1510	6650	9.0	--	--	--
26...	1520	6600	9.0	3370	60100	65
26...	1615	6500	9.0	3300	57900	--
26...	1625	6500	9.0	--	--	--
26...	1715	6370	9.0	--	--	--
26...	1745	6200	9.0	3270	54700	54
26...	1800	6200	9.0	--	--	--
27...	1245	4330	9.0	1270	14800	59
27...	1300	4330	9.0	--	--	--
MAY						
21...	1130	165	12.0	3	1.3	--

DATE	TIME	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	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM
DEC									
06...	1245	13	22	31	40	50	--	57	--
FEB									
19...	1145	19	27	38	49	58	--	65	--
26...	1135	16	25	34	46	57	67	--	76
26...	1450	14	21	31	41	51	60	--	68
26...	1615	16	23	34	44	55	64	--	72
27...	1245	15	23	32	42	51	--	59	--

DATE	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
DEC								
06...	65	--	76	--	90	--	97	100
FEB								
19...	71	--	81	--	94	--	99	100
26...	--	86	--	97	--	100	--	--
26...	--	78	--	93	--	100	--	--
26...	--	82	--	95	--	100	--	--
27...	68	--	78	--	89	--	96	98

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

REDWOOD CREEK BASIN
11482220 REDWOOD CREEK ABOVE HARRY WIER CREEK, NEAR ORICK, CA--Continued

DATE	TIME	NUMBER OF SAMPLING POINTS	STREAM WIDTH (FT)	SEDIMENT BEDLOAD DISCHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM
DEC								
06...	1300	5	182	8510	1	1	6	17
FEB								
19...	1235	5	185	3260	1	2	9	21
26...	1000	3	195	7020	1	3	11	22
26...	1055	3	198	10100	1	3	8	13
26...	1200	3	197	12100	1	4	12	20
26...	1510	5	192	12500	1	3	12	25
26...	1625	3	191	13300	2	3	11	22
26...	1800	3	190	14300	1	2	10	21
27...	1300	5	187	7090	1	2	8	17

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 76.0 MM
DEC							
06...	32	50	78	93	98	100	--
FEB							
19...	37	57	76	91	98	100	--
26...	35	47	58	70	82	100	--
26...	23	41	63	85	100	--	--
26...	29	40	55	70	81	95	100
26...	43	62	76	87	99	100	--
26...	36	50	62	78	87	94	100
26...	35	52	68	85	100	--	--
27...	31	50	71	86	100	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

REDWOOD CREEK BASIN
11482225 HARRY WIER CREEK NEAR ORICK, CA

LOCATION.--Lat 41°11'53", long 123°59'32", unsurveyed, Humboldt County, Redwood National Park.
DRAINAGE AREA.--2.96 mi^2 (7.67 km^2).
PERIOD OF RECORD.--Water years 1973 to current year.
CHEMICAL ANALYSES: Water years 1973 to current year.
SEDIMENT RECORDS: Water years 1973 to current year.
REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies", Data Release Numbers 1 and 2.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT								
28...	1700	36	--	--	--	--	--	--
28...	1710	36	--	--	--	520	51	77
DEC								
05...	1900	112	--	--	10.5	912	276	44
05...	2200	90	44	7.1	10.5	--	--	--
05...	2230	89	--	--	10.5	580	139	52
05...	2300	89	--	--	10.5	666	160	43
06...	0910	67	56	7.3	10.5	--	--	--
06...	1035	67	--	--	10.5	289	52	55
06...	1040	67	--	--	10.5	--	--	--
JAN								
13...	1030	21	--	--	--	--	--	--
13...	1100	21	--	--	--	33	1.9	82
FEB								
18...	1800	28	--	--	8.0	37	2.8	71
18...	1815	28	--	--	8.0	36	2.7	73
18...	1830	28	52	6.7	8.0	--	--	--
18...	2010	28	--	--	8.0	41	3.1	72
18...	2015	28	--	--	8.0	46	3.5	79
18...	2035	28	49	6.8	8.0	--	--	--
18...	2110	30	--	--	8.5	111	9.0	80
18...	2130	33	46	6.5	8.5	--	--	--
18...	2145	33	--	--	8.5	132	12	71
18...	2155	33	--	--	8.0	196	17	84
18...	2230	37	--	--	8.0	241	24	81
19...	0005	32	--	--	7.5	103	8.9	64
19...	0015	32	--	--	7.5	76	6.6	79
19...	0035	32	46	6.3	7.5	--	--	--
19...	0100	34	--	--	7.5	97	8.9	74
19...	0110	34	--	--	7.5	--	--	--
19...	0130	34	--	--	7.5	--	--	--
19...	0230	34	47	6.3	7.5	100	9.2	56
19...	0400	30	--	--	--	62	5.0	--
19...	0445	34	--	--	--	48	4.4	--
19...	0530	35	46	6.2	7.5	134	13	84
19...	0600	35	--	--	7.5	--	--	--
19...	0640	35	--	--	7.5	82	7.7	--
19...	0740	35	--	--	7.5	78	7.4	--
19...	0905	35	--	--	7.5	56	5.3	--
19...	1000	35	46	6.4	7.5	--	--	--
19...	1025	32	--	--	7.5	44	3.8	--
19...	1245	30	--	--	7.5	40	3.2	73
SEP								
21...	1420	.17	--	--	13.0	--	--	--

DATE	TIME	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						
18...	1800	71	79	87	96	100
18...	2010	72	78	86	95	100
18...	2110	80	83	88	95	100
18...	2155	84	88	93	98	100
18...	2230	81	86	92	98	100

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

REDWOOD CREEK BASIN
11482225 HARRY WIER CREEK NEAR ORICK, CA--Continued

DATE	TIME	NUMBER OF SAMPLING POINTS	STREAM WIDTH (FT)	SEDIMENT BEDLOAD DISCHARGE (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
OCT								
28...	1700	--	17	.00	--	--	--	--
DEC								
05...	2230	10	21	177	--	1	2	5
06...	1040	10	20	225	--	1	1	3
FEB								
19...	0110	8	18	20	--	1	1	6
19...	0130	8	18	5.4	--	--	1	4
19...	0530	8	18	5.0	--	3	3	16
19...	0600	8	18	7.2	1	3	4	13

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							
28...	--	--	--	--	--	--	--
DEC							
05...	9	17	32	52	70	97	100
06...	8	16	35	58	80	89	100
FEB							
19...	23	57	80	87	93	100	--
19...	10	28	54	82	100	--	--
19...	34	57	82	99	100	--	--
19...	26	39	51	63	73	100	--

11482230 TOM MCDONALD CREEK NEAR ORICK, CA

LOCATION.--Lat 41°12'16", long 124°00'53", in SE¼NW¼ sec.1, T.9 N., R.1 E., Humboldt County, Redwood National Park.
DRAINAGE AREA.--6.86 mi^2 (17.77 km^2).
PERIOD OF RECORD.--Water years 1973 to current year.
CHEMICAL ANALYSES: Water years 1973 to current year.
SEDIMENT RECORDS: Water years 1974 to current year.
REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies", Data Release Numbers 1 and 2.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JAN							
06...	1130	27	--	--	7.0	9	.66
06...	1200	27	45	6.6	7.0	--	--
SEP							
21...	1610	1.4	--	--	14.0	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

REDWOOD CREEK BASIN
11482250 MILLER CREEK NEAR ORICK, CA

LOCATION.--Lat 41°13'54", long 123°59'30", unsurveyed, Humboldt County, Redwood National Park.
DRAINAGE AREA.--0.67 mi^2 (1.74 km^2).
PERIOD OF RECORD.--Water years 1974 to current year.
CHEMICAL ANALYSES: Water years 1974 to current year.
SEDIMENT RECORDS: Water years 1974 to current year.
REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies", Data Release Numbers 1 and 2.

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT								
03...	1300	.07	--	--	12.0	3	.00	--
28...	1245	6.7	--	--	11.0	95	1.7	76
DEC								
05...	2230	22	--	--	11.0	111	6.6	91
05...	2235	22	--	--	11.0	--	--	--
05...	2250	22	56	6.4	11.0	--	--	--
06...	0745	20	48	6.5	11.0	--	--	--
06...	0750	20	--	--	11.0	71	3.8	72
FEB								
18...	1545	--	60	7.1	8.0	--	--	--
18...	1810	8.3	60	7.1	8.0	--	--	--
18...	1855	8.3	--	--	8.0	26	.58	85
18...	2100	11	--	--	8.0	155	4.6	83
18...	2105	12	60	6.6	8.0	--	--	--
18...	2130	12	--	--	8.0	--	--	--
18...	2200	--	--	6.6	8.0	--	--	--
18...	2245	--	60	--	8.0	--	--	--
18...	2300	10	--	--	8.0	58	1.6	81
19...	0050	--	52	6.7	8.0	--	--	--
19...	0400	--	60	6.6	8.0	--	--	--
19...	0415	9.5	--	--	8.0	30	.77	80
19...	0600	9.5	60	6.7	8.0	--	--	--
19...	0630	9.5	--	--	8.0	--	--	--
19...	0745	8.0	--	--	8.0	25	.54	87
19...	0800	--	60	6.7	8.0	--	--	--
19...	1025	7.4	54	6.6	8.0	--	--	--
19...	1045	7.4	--	--	8.0	21	.42	88
19...	1245	--	59	6.7	8.5	--	--	--
SEP								
21...	1200	.03	--	--	13.0	--	--	--

DATE	TIME	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
DEC				
05...	2230	91	95	100

DATE	TIME	NUMBER OF SAM-PLING POINTS	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
DEC							
05...	2235	14	15	9.4	1	1	2
FEB							
18...	2130	--	--	.00	--	--	--
19...	0630	--	--	.00	--	--	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
DEC							
05...	7	14	22	35	58	86	100
FEB							
18...	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

REDWOOD CREEK BASIN
11482260 MILLER CREEK AT MOUTH, NEAR ORICK, CA

LOCATION.--Lat 41°13'46", long 124°00'36", in NE¼ sec.25, T.10 N., R.1 E., Humboldt County, Redwood National Park.
DRAINAGE AREA.--1.36 mi^2 (3.52 km^2).
PERIOD OF RECORD.--Water years 1973 to current year.
CHEMICAL ANALYSES: Water years 1973 to current year.
SEDIMENT RECORDS: Water years 1974 to current year.
REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies", Data Release Numbers 1 and 2.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT								
03...	1400	.06	--	--	12.0	28	.00	57
28...	1400	--	--	--	11.0	--	--	--
DEC								
05...	1800	--	--	--	11.0	--	--	--
05...	1900	44	52	7.7	11.0	--	--	--
05...	1935	45	--	--	11.0	281	34	85
05...	1940	45	--	--	11.0	--	--	--
05...	2000	--	53	7.7	11.0	--	--	--
05...	2100	40	53	7.5	11.0	--	--	--
05...	2130	40	--	--	11.0	254	27	78
05...	2200	--	52	7.3	11.0	--	--	--
05...	2300	--	54	7.4	10.5	--	--	--
05...	2400	40	56	7.1	10.5	--	--	--
06...	0025	40	--	--	10.5	223	24	70
06...	0100	40	56	7.1	10.5	--	--	--
06...	0200	--	56	7.2	10.5	--	--	--
06...	0300	--	56	7.1	10.5	--	--	--
06...	0400	--	56	7.0	10.5	--	--	--
06...	0500	--	56	6.8	10.5	--	--	--
06...	0600	--	56	6.6	10.5	--	--	--
06...	0700	34	56	6.1	10.5	--	--	--
06...	0820	32	--	--	10.5	145	13	73
FEB								
18...	1700	12	57	7.6	8.5	35	1.1	78
18...	1800	--	57	8.0	8.5	--	--	--
18...	1900	--	57	7.6	8.5	--	--	--
18...	2000	12	57	7.7	8.5	--	--	--
18...	2025	12	--	--	8.5	33	1.1	77
18...	2030	12	--	--	8.5	--	--	--
18...	2100	--	57	7.5	8.5	--	--	--
18...	2200	18	55	7.3	8.0	--	--	--
18...	2220	18	--	--	8.0	350	17	86
18...	2300	--	57	7.2	8.0	--	--	--
18...	2400	--	57	7.0	8.0	--	--	--
19...	0100	--	58	7.0	8.0	--	--	--
19...	0200	--	57	7.0	8.0	--	--	--
19...	0300	--	58	7.0	8.0	--	--	--
19...	0400	10	60	7.1	8.0	39	1.1	79
19...	0500	--	60	7.1	8.0	--	--	--
19...	0600	--	59	7.0	7.5	--	--	--

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
FEB								
19...	0700	--	58	6.9	7.5	--	--	--
19...	0800	10	58	7.0	7.5	--	--	--
19...	0810	10	--	--	7.5	41	1.1	83
19...	0820	10	--	--	7.5	--	--	--
19...	0900	--	59	7.0	7.5	--	--	--
19...	1000	--	58	7.0	7.5	--	--	--
19...	1100	--	57	7.0	8.0	--	--	--
19...	1200	11	57	7.0	8.0	--	--	--
19...	1215	11	--	--	8.0	30	.89	77
SEP								
21...	1405	.13	--	--	12.5	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

REDWOOD CREEK BASIN
11482260 MILLER CREEK AT MOUTH, NEAR ORICK, CA--Continued

DATE	TIME	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	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												
05...	1935	32	42	55	69	80	85	89	96	100	--	--
06...	0025	--	--	--	--	--	70	75	83	90	92	100

DATE	TIME	NUMBER OF SAMPLING POINTS	STREAM WIDTH (FT)	SEDIMENT BEDLOAD DISCHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM
OCT												
03...	1400	--	--	.00	--	--	--	--	--	--	--	--
DEC												
05...	1940	14	16	12	1	3	14	37	67	86	97	100
FEB												
18...	2030	11	12	.83	1	6	14	34	68	96	100	--
18...	2220	12	13	1.6	1	9	31	58	83	95	100	--
19...	0820	10	11	.00	--	--	--	--	--	--	--	--

11482295 GANS SOUTH CREEK NEAR ORICK, CA

LOCATION.--Lat 41°15'46", long 124°00'49", in SE¼SW¼ sec.12, T.10 N., R.1 E., Humboldt County, Redwood National Park.
DRAINAGE AREA.--0.52 mi² (1.35 km²).
PERIOD OF RECORD.--Water years 1975 to current year.
CHEMICAL ANALYSES: Water year 1975.
SEDIMENT RECORDS: Water year 1975.
REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies", Data Release Number 2.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)
SEP		
27...	1140	.00

11482305 GANS WEST CREEK NEAR ORICK, CA

LOCATION.--Lat 41°16'30", long 124°01'32", in SW¼SE¼ sec.2, T.10 N., R.1 E., Humboldt County, Redwood National Park.
DRAINAGE AREA.--0.27 mi² (0.70 km²).
PERIOD OF RECORD.--Water years 1975 to current year.
CHEMICAL ANALYSES: Water years 1975 to current year.
SEDIMENT RECORDS: Water year 1975.
REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies", Data Release Number 2.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)
SEP			
22...	1255	.04	12.0

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

REDWOOD CREEK BASIN

11482320 LOW-SLOPE SCHIST CREEK NEAR ORICK, CA

LOCATION.--Lat 41°16'53", long 124°01'49", in NE¼SW¼ sec.2, T.10 N., R.1 E., Humboldt County, Redwood National Park.
DRAINAGE AREA.--0.19 mi² (0.49 km²).
PERIOD OF RECORD.--Water years 1974 to current year.
CHEMICAL ANALYSES: Water years 1974 to current year.
SEDIMENT RECORDS: Water years 1974-75.
REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies", Data Release Numbers 1 and 2.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)
SEP			
22...	1130	.04	12.0

11482330 HAYES CREEK NEAR ORICK, CA

LOCATION.--Lat 41°17'24", long 124°01'36", in SE¼SW¼ sec.35, T.11 N., R.1 E., Humboldt County, Redwood National Park.
DRAINAGE AREA.--0.58 mi² (1.50 km²).
PERIOD OF RECORD.--Water years 1973 to current year.
CHEMICAL ANALYSES: Water years 1973 to current year.
SEDIMENT RECORDS: Water years 1974 to current year.
REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies", Data Release Numbers 1 and 2.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT								
27...	1640	3.5	--	--	10.0	17	.16	90
29...	1100	--	--	--	10.0	--	--	--
DEC								
05...	1800	--	56	6.6	10.5	--	--	--
05...	1845	14	--	--	10.5	62	2.3	69
05...	1935	14	--	--	10.5	--	--	--
05...	2000	14	58	6.5	10.5	--	--	--
05...	2200	14	60	6.5	10.5	--	--	--
05...	2235	14	--	--	10.5	60	2.3	59
06...	0200	--	58	6.6	10.0	--	--	--
06...	0400	13	63	6.7	10.0	--	--	--
06...	0435	13	--	--	10.0	43	1.5	65
06...	0630	12	61	6.5	10.0	--	--	--
06...	0730	12	--	--	10.0	46	1.5	65
06...	0935	--	60	6.5	10.5	--	--	--
JAN								
08...	1130	6.1	--	--	--	34	.56	67
FEB								
16...	1330	9.8	--	--	9.0	87	2.3	63
16...	1335	9.8	--	--	9.0	--	--	--
18...	1445	6.4	59	6.3	8.0	--	--	--
18...	1505	6.4	--	--	8.0	9	.16	73
18...	1900	--	62	6.4	8.0	--	--	--
18...	2100	6.7	58	6.6	8.5	--	--	--
18...	2140	6.7	--	--	8.0	31	.56	77
18...	2300	--	58	6.6	8.0	--	--	--
19...	0040	6.3	--	--	7.0	34	.58	77
19...	0100	6.0	59	6.5	7.5	--	--	--
19...	0300	6.6	58	6.5	8.0	--	--	--
19...	0340	6.6	--	--	8.0	13	.23	69
19...	0500	--	60	6.6	7.5	--	--	--
19...	0700	7.0	61	6.5	8.0	17	.32	49
19...	0900	7.1	62	6.5	7.5	--	--	--
19...	0940	7.1	--	--	7.5	16	.31	40
19...	1100	--	64	6.5	8.0	--	--	--
19...	1200	6.9	64	6.5	7.5	--	--	--
19...	1215	6.6	--	--	7.5	31	.55	40
MAR								
31...	1045	3.4	--	--	6.5	39	.36	71
APR								
07...	1600	1.9	--	--	9.0	12	.06	59
JUN								
09...	1135	.19	--	--	9.0	--	--	--
SEP								
22...	1045	.00	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

REDWOOD CREEK BASIN
11482330 HAYES CREEK NEAR ORICK, CA--Continued

DATE	TIME	NUMBER OF SAMPLING POINTS	STREAM WIDTH (FT)	SEDIMENT BEDLOAD DISCHARGE (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
DEC							
05...	1935	3	14	6.4	--	1	2
FEB							
16...	1335	5	12	.38	1	3	16
APR							
07...	1600	--	6.9	.00	--	--	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
DEC							
05...	9	35	64	80	91	98	100
FEB							
16...	65	88	94	96	98	100	--
APR							
07...	--	--	--	--	--	--	--

11482450 LOST MAN CREEK NEAR ORICK, CA

LOCATION.--Lat 41°19'06", long 123°59'15", in SE¼ sec.19, T.11 N., R.2 E., Humboldt County, Redwood National Park.
DRAINAGE AREA.--3.97 mi² (10.28 km²).
PERIOD OF RECORD.--Water years 1973 to current year.
CHEMICAL ANALYSES: Water years 1973 to current year.
SEDIMENT RECORDS: Water years 1974 to current year.
REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies", Data Release Numbers 1 and 2.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT								
28...	1615	--	--	--	10.0	--	--	--
DEC								
05...	1850	--	35	--	10.0	--	--	--
05...	2030	--	35	6.3	10.0	--	--	--
05...	2220	116	--	6.8	10.0	116	36	68
05...	2225	116	--	--	10.0	--	--	--
06...	0010	--	35	6.7	10.0	--	--	--
06...	0100	--	35	--	10.0	--	--	--
06...	0230	105	--	6.7	10.0	62	18	78
06...	0310	--	42	--	10.0	--	--	--
06...	0400	--	40	--	10.0	--	--	--
06...	0500	99	35	6.5	10.0	--	--	--
06...	0545	100	--	--	--	66	18	--
06...	0600	100	38	6.6	10.0	--	--	--
06...	0910	80	--	--	--	61	13	62
06...	0920	78	--	--	--	--	--	--
JAN								
08...	1250	105	--	--	8.5	134	38	70
08...	1305	104	--	--	8.5	--	--	--
08...	1315	105	38	7.2	8.5	--	--	--
FEB								
18...	1825	50	42	--	8.0	--	--	--
18...	1855	50	--	--	8.0	22	3.0	71
18...	1945	50	37	6.4	8.0	--	--	--
18...	2035	63	--	--	--	--	--	--
18...	2200	63	43	6.6	7.5	86	15	83
19...	0030	--	41	6.6	7.5	--	--	--
19...	0200	71	40	6.6	7.0	--	--	--
19...	0240	71	--	--	6.5	53	10	75
19...	0500	--	32	--	6.0	--	--	--
19...	0505	72	--	--	6.0	83	16	78
19...	0700	72	40	--	6.0	--	--	--
19...	0800	--	37	6.7	6.5	--	--	--
19...	0805	72	--	--	6.5	50	9.7	74
19...	0900	--	44	--	6.5	--	--	--
19...	1030	73	--	--	7.0	35	6.9	73
19...	1100	73	38	6.7	7.0	--	--	--
19...	1215	72	--	--	7.5	32	6.2	67
SEP								
23...	1305	.29	--	--	15.0	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

REDWOOD CREEK BASIN
11482450 LOST MAN CREEK NEAR ORICK, CA--Continued

DATE	TIME	NUMBER OF SAMPLING POINTS	STREAM WIDTH (FT)	SEDIMENT BEDLOAD DISCHARGE (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
DEC							
05...	2225	14	34	16	--	1	3
06...	0230	14	34	24	--	--	1
06...	0600	14	34	1.2	1	3	8
06...	0920	14	34	2.3	1	2	6
JAN							
08...	1305	9	24	4.7	--	1	3

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
DEC							
05...	9	21	44	69	89	96	100
06...	1	5	18	39	75	94	100
06...	29	55	76	89	98	100	--
06...	21	40	58	73	82	100	--
JAN							
08...	17	36	61	84	96	100	--

11482455 LOST MAN CREEK TRIBUTARY NEAR ORICK, CA

LOCATION.--Lat 41°19'20", long 123°59'52", in SE¼SE¼ sec.24, T.11 N., R.1 E., Humboldt County, Redwood National Park.
DRAINAGE AREA.--0.44 mi^2 (1.14 km^2).
PERIOD OF RECORD.--Water years 1975 to current year.
CHEMICAL ANALYSES: Water years 1975 to current year.
SEDIMENT RECORDS: Water years 1975 to current year.
REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies", Data Release Number 2.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT								
28...	1650	1.8	--	--	10.0	5	.02	69
JAN								
08...	1400	6.9	38	7.3	8.5	--	--	--
08...	1445	7.0	--	--	8.5	9	.17	--
08...	1500	7.0	38	7.3	8.5	--	--	--
FEB								
08...	1500	--	--	--	10.5	--	--	--
APR								
07...	1325	1.1	--	--	8.5	--	--	--
SEP								
23...	1140	.02	--	--	11.0	--	--	--

REDWOOD CREEK BASIN
11482475 GENEVA CREEK NEAR ORICK, CA

LOCATION.--Lat 41°19'36", long 124°01'53", in SW¼NW¼ sec.23, T.11 N., R.1 E., Humboldt County, Redwood National Park.
DRAINAGE AREA.--0.08 mi² (0.21 km²).
PERIOD OF RECORD.--Water years 1974 to current year.
CHEMICAL ANALYSES: Water years 1974 to current year.
SEDIMENT RECORDS: Water years 1974 to current year.
REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies", Data Release Numbers 1 and 2.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT						
29...	1235	--	11.0	--	--	--
DEC						
05...	1700	2.5	10.0	31	.21	69
06...	0825	1.6	10.0	14	.06	74
JAN						
08...	1445	1.3	--	26	.09	72
FEB						
16...	1500	3.9	8.5	48	.51	74
18...	1940	.81	8.0	9	.02	69
18...	2040	.81	8.0	10	.02	77
18...	2115	1.6	8.0	26	.11	83
18...	2225	1.3	8.0	12	.04	82
18...	2340	1.2	8.0	9	.03	85
19...	0550	1.6	8.0	8	.03	91
19...	1330	1.2	8.0	6	.02	87
APR						
09...	1055	.20	8.0	5	.00	--

DATE	TIME	NUMBER OF SAMPLING POINTS	STREAM WIDTH (FT)	SEDIMENT BEDLOAD DISCHARGE (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
DEC							
05...	1700	3	--	.00	--	--	--
06...	0825	--	--	.00	--	--	--
FEB							
16...	1500	1	4.2	.01	4	26	28

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
DEC						
05...	--	--	--	--	--	--
06...	--	--	--	--	--	--
FEB						
16...	62	77	81	90	96	100

11482480 BERRY GLENN CREEK NEAR ORICK, CA

LOCATION.--Lat 41°18'59", long 124°02'17", in NE¼NE¼ sec.27, T.11 N., R.1 E., Humboldt County, Redwood National Park.
DRAINAGE AREA.--0.40 mi² (1.04 km²).
PERIOD OF RECORD.--Water years 1974 to current year.
CHEMICAL ANALYSES: Water years 1974 to current year.
SEDIMENT RECORDS: Water years 1974 to current year.
REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies", Data Release Numbers 1 and 2.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT								
29...	1215	1.8	--	--	11.0	--	--	--
DEC								
02...	1245	2.6	59	7.2	10.0	--	--	--
02...	1415	2.6	--	--	10.0	23	.16	66
JAN								
08...	1330	4.5	--	--	--	148	1.8	62

Del Norte County

Smith River Basin

414643124115601. Local number 16N/1W-17K1 H.
LOCATION.--Lat 41°46'43", long 124°11'56", about 1.5 mi (2.4 km) north of Crescent City.
Owner: Josephene Strouse.
AQUIFER.--Battery Formation of Pleistocene age.
WELL CHARACTERISTICS.--Drilled domestic water-table well, diameter 6 in (0.15 m), depth 40 ft (12.2 m), perforated 34-39 ft (10.3-11.9 m).
DATUM.--Altitude of land-surface datum is 48 ft (14.6 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1953-54, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.3 ft (2.23 m) below land-surface datum, Mar. 28, 1961; lowest measured, 24.00 ft (7.315 m) below land-surface datum, Jan. 27, 1960.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 13, 1975	21.7	APR. 6, 1976	14.7				

415322124084701. Local number 17N/1W-2P1 H.
LOCATION.--Lat 41°53'22", long 124°08'47", about 1.6 mi (2.6 km) north of Fort Dick.
Owner: Homer Martin.
AQUIFER.--Flood-plain deposits of Quaternary age.
WELL CHARACTERISTICS.--Drilled domestic water-table well, diameter 8 in (0.20 m), depth 26 ft (7.9 m), casing information not available.
DATUM.--Altitude of land-surface datum is 31 ft (9.4 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1952, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.9 ft (3.32 m) below land surface datum, Mar. 30, 1960; lowest measured, 23.43 ft (7.141 m) below land-surface datum, Oct. 14, 1964.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 13, 1975	21.5	APR. 6, 1976	17.2				

Humboldt County

Eureka-Fortuna Area

403550124093101. Local number 3N/1W-34J1 H.
LOCATION.--Lat 40°35'50", long 124°09'31", in the southwest corner of the city of Fortuna in the Eel River Valley. Owner: City of Fortuna.
AQUIFER.--Carlotta Formation of Ogle (1953) of Pliocene age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in (0.30 m), depth 496 ft (151.2 m), perforated 182-226 ft (55.47-68.88 m), 285-365 ft (86.87-111.2 m).
DATUM.--Altitude of land-surface datum is 60 ft (18.3 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1951-53, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.3 ft (7.10 m) below land-surface datum, Sept. 5, 1952; lowest measured, 36.1 ft (11.00 m) below land-surface datum, Nov. 17, 1959.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 14, 1975	35.7	APR. 7, 1976	33.0				

Mendocino County

Laytonville Area

393837123281801. Local number 21N/14W-30M1 M.
LOCATION.--Lat 39°38'37", long 123°28'18", about 2 mi (3 km) south of Laytonville.
Owner: Howard Winton.
AQUIFER.--Alluvium of Holocene age.
WELL CHARACTERISTICS.--Dug domestic and irrigation water-table well, size 5x5 ft (2x2 m), depth 29 ft (8.8 m), casing information not available.
DATUM.--Altitude of land-surface datum is 1,688 ft (514.5 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1952-55, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.68 ft (0.817 m) below land-surface datum, Apr. 23, 1963; lowest measured, 20.0 ft (6.10 m) below land-surface datum, Aug. 25, 1959.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 14, 1975	16.9	APR. 7, 1976	5.1				

Little Lake Valley

392459123210301. Local number 18N/13W-18E1 M.
LOCATION.--Lat 39°24'59", long 123°21'03", at Willits.
Owner: Northwestern Pacific Railroad.
AQUIFER.--Alluvium of Holocene age and continental deposits of Pliocene and Pleistocene age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in (0.30 m), depth 493 ft (150.3 m), casing information not available.
DATUM.--Altitude of land-surface datum is 1,350 ft (411.5 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.8 ft (5.43 m) below land-surface datum, Apr. 18, 1974; lowest measured, 37.6 ft (11.46 m) below land-surface datum, Oct. 24, 1960.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 14, 1975	24.4	APR. 8, 1976	20.1				

Potter Valley

391944123065701. Local number 17N/11W-18J1 M.
LOCATION.--Lat 39°19'44", long 123°06'57", about 2.5 mi (4.0 km) southeast of Potter Valley.
Owner: Orvil Watkins.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled domestic artesian well, diameter 8 in (0.20 m), depth 36 ft (11.0 m), casing information not available.
DATUM.--Altitude of land-surface datum is 955 ft (291.1 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1951-55, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.33 ft (0.405 m) above land-surface datum, Mar. 22, 1966; lowest measured, 5.20 ft (1.585 m) below land-surface datum, Oct. 13, 1964.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 6, 1975	1.5	MAR. 18, 1976	-0.1				

Round Valley

394802123115701. Local number 22N/12W-4B1 M.
LOCATION.--Lat 39°48'02", long 123°11'57", about 2.5 mi (4.0 km) east of Covelo.
Owner: C. Rohn.
AQUIFER.--Alluvium of Holocene age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 12 in (0.30 m), depth 200 ft (61.0 m), casing information not available.
DATUM.--Altitude of land-surface datum is 1,351 ft (411.8 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1951 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.7 ft (1.13 m) below land-surface datum, Feb. 19, 1959; lowest measured, 17.7 ft (5.39 m) below land-surface datum, Dec. 15, 1959.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 15, 1975	15.7						

Mendocino County--Continued

Sanel Valley

385800123064801. Local number 13N/11W-19P1 M.
LOCATION.--Lat 38°58'00", long 123°06'48", about 0.4 mi (0.6 km) south of Hopland.
Owner: Hansen Ranch.
AQUIFER.--Alluvium of Holocene age.
WELL CHARACTERISTICS.--Dug and drilled irrigation water-table well, size 4x5 ft (1.2x1.5 m), depth 44 ft (13.4 m), 12 in (0.30 m) casing to 44 ft (13.4 m), perforated 24-44 ft (7.31-13.4 m).
DATUM.--Altitude of land-surface datum is 488 ft (148.7 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1953-55, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.3 ft (0.40 m) below land-surface datum, Feb. 9, 1960; lowest measured, 21.0 ft (6.40 m) below land-surface datum, Oct. 2, 1958.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 7, 1975	18.7	MAR. 18, 1976	10.6				

385831123052201. Local number 13N/11W-20G1 M.
LOCATION.--Lat 38°58'31", long 123°05'22", about 0.5 mi (0.8 km) east of East Hopland.
Owner: I. Bliss.
AQUIFER.--Alluvium of Holocene age.
WELL CHARACTERISTICS.--Drilled domestic artesian well, diameter 6 in (0.15 m), depth 135 ft (41.1 m), casing information not available.
DATUM.--Altitude of land-surface datum is 515 ft (157.0 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1953-55, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.3 ft (0.70 m) below land-surface datum, Feb. 8, 1960; lowest measured, 64.21 ft (19.571 m) below land-surface datum, Oct. 4, 1961.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 7, 1975	12.4	MAR. 18, 1976	6.1				

Ukiah Area

391026123123201. Local number 15N/12W-8L1 M.
LOCATION.--Lat 39°10'26", long 123°12'32", about 1 mi (2 km) north of Ukiah.
Owner: Arnold Bogner.
AQUIFER.--Terrace deposits of Holocene age.
WELL CHARACTERISTICS.--Drilled domestic water-table well, diameter 12 in (0.30 m), depth 62 ft (18.9 m), casing information not available.
DATUM.--Altitude of land-surface datum is 665 ft (202.7 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1951-55, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.10 ft (3.078 m) below land-surface datum, Mar. 9, 1962; lowest measured, 30.6 ft (9.33 m) below land-surface datum, Dec. 5, 1959.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 6, 1975	26.7	MAR. 18, 1976	22.1				

Napa County

Napa Valley

381730122163201. Local number 5N/4W-11M1 M.
LOCATION.--Lat 38°17'30", long 122°16'32", Napa.
Owner: DeWitt Machine Shop.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in (0.20 m), depth 77 ft (23.5 m), casing information not available.
DATUM.--Altitude of land-surface datum is 13 ft (4.0 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1950 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.56 ft (0.780 m) below land-surface datum, Jan. 22, 1951; lowest measured, 10.5 ft (3.20 m) below land-surface datum, Sept. 8, 1950.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 6, 1975	8.8	MAR. 8, 1976	7.5				

382218122190101. Local number 6N/4W-17A1 M.
LOCATION.--Lat 38°22'18", long 122°19'01", about 4 mi (6 km) north of Napa.
Owner: L. N. Bianchini.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 12 in (0.30 m), depth 250 ft (76.2 m), cased to 250 ft (76.2 m).
DATUM.--Altitude of land-surface datum is 67 ft (20.4 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1949 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.6 ft (0.18 m) below land-surface datum, Feb. 21, 1969; lowest measured, 23.7 ft (7.22 m) below land-surface datum, Oct. 6, 1960.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 6, 1975	14.5	MAR. 8, 1976	22.6				

382750122250401. Local number 7N/5W-16B2 M.
LOCATION.--Lat 38°27'50", long 122°25'04", about 0.25 mi (0.40 km) northeast of Rutherford.
Owner: Lamont Morton.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 10 in (0.25 m), depth 232 ft (70.7 m), casing information not available.
DATUM.--Altitude of land-surface datum is 155 ft (47.2 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1949-53, 1955 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.0 ft (1.22 m) below land-surface datum, Mar. 27, 1952; lowest measured, 28.3 ft (8.63 m) below land-surface datum, Sept. 7, 1961.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 6, 1975	17.7	MAR. 8, 1976	18.8				

383326122311801. Local number 8N/6W-10Q1 M.
LOCATION.--Lat 38°33'26", long 122°31'18", about 3.5 mi (5.6 km) southeast of Calistoga.
Owner: Marloff Bros.
AQUIFER.--Allivium of Quaternary age.
WELL CHARACTERISTICS.--Drilled stock and irrigation water-table well, diameter 10 in (0.25 m), depth 184 ft (56.1 m), casing information not available.
DATUM.--Altitude of land-surface datum is 290 ft (88.4 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1949 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.1 ft (0.03 m) above land-surface datum, Mar. 20, 1967; lowest measured, 40.8 ft (12.44 m) below land-surface datum, Sept. 14, 1950.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 6, 1975	6.9	MAR. 9, 1976	5.0				

Siskiyou County

Butte Valley

415105121545901. Local number 46N/1E-6N1 M.
LOCATION.--Lat 41°51'05", long 121°54'59", about 4 mi (6 km) east-northeast (revised) of Macdoel.
Owner: Leo Luzzi.
AQUIFER.--Lake deposits.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 18 in (45.7 cm), depth 200 ft (61 m), casing information not available.
DATUM.--Altitude of land-surface datum is 4,242.0 ft (1,292.96 m), previously reported, 4,242.4 ft (1,293.08 m), above mean sea level. Measuring point: Top of concrete base, east side, 1.0 ft (0.30 m) above land-surface datum.
REMARKS.--Measurements after Mar. 3, 1966, by California Department of Water Resources, and U.S. Bureau of Reclamation.
PERIOD OF RECORD.--1953-54, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 16.03 ft (4.89 m) below land-surface datum, Sept. 17, 1964; lowest, 43.3 ft (13.20 m) below land-surface datum, June 6, 1974.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 5, 1975	23.2	MAR. 18, 1976	18.2				

415523121563801. Local number 47N/1W-14B1 M.
LOCATION.--Lat 41°55'23", long 121°56'38", about 3.4 mi (5.5 km) southwest of Dorris.
Owner: U.S. Department of Interior, Bureau of Reclamation.
AQUIFER.--Lake deposits.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (5.1 cm), depth 50 ft (15.2 m), casing information not available.
DATUM.--Altitude of land-surface datum, 4,233.7 ft (1,290.4 m) above mean sea level.
REMARKS.--Measurements after Mar. 3, 1966, by California Department of Water Resources, and U.S. Bureau of Reclamation.
PERIOD OF RECORD.--1951-54, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.1 ft (1.86 m) below land-surface datum, June 3, 1974; lowest, 18.5 ft (5.6 m) below land-surface datum, Nov. 26, 1951.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 30, 1976	7.4	JUNE 9, 1976	7.4	AUG. 11, 1976	7.6	SEP. 8, 1976	7.5
MAY 4	7.4	JULY 14	7.5				

Scott Valley

412722122522501. Local number 42N/9W-27N1 M.
LOCATION.--Lat 41°27'22", long 122°52'25", about 1 mi (2 km) east of Etna.
Owner: J. Starr.
AQUIFER.--Alluvium (previously reported younger alluvium) of Quaternary age.
WELL CHARACTERISTICS.--Dug unused water-table well, size 5 x 5 ft (1.5 x 1.5 m), depth, 19 ft (5.8 m), casing information not available.
DATUM.--Altitude of land-surface datum, 2,930 ft (893.1 m) above mean sea level. Measuring point: Top of old pump base, 2.0 ft (0.61 m) above land-surface datum.
REMARKS.--Measurements after Mar. 4, 1966, by California Department of Water Resources.
PERIOD OF RECORD.--1953-54, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.84 ft (0.26 m) below land-surface datum, May 22, 1963; lowest, 9.8 ft (3.0 m) below land-surface datum, Sept. 23, 1959.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 4, 1975	5.2	MAR. 18, 1976	5.7				

Siskiyou County--Continued

Scott Valley--Continued

413746122532401. Local number 44N/9W-28P1 M.
LOCATION.--Lat 41°37'46", long 122°53'24", about 3 mi (5 km) northeast of Ft. Jones.
Owner: R. H. Dilley.
AQUIFER.--Alluvium (previously reported younger alluvium) of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in (20.3 cm), depth 65 ft (19.8 m), casing information not available.
DATUM.--Altitude of land-surface datum is 2,711 ft (826.3 m) above mean sea level. Measuring point: Top of casing, 0.5 ft (0.15 m) above land-surface datum.
REMARKS.--Measurements after Mar. 4, 1966, by California Department of Water Resources.
PERIOD OF RECORD.--1953-54, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.0 ft (0.91 m) below land-surface datum, Apr. 10, 1974; lowest, 26.7 ft (8.14 m) below land-surface datum, Dec. 17, 1959, Jan. 28, 1960.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 4, 1975	25.0	MAR. 18, 1976	12.9				

Shasta Valley

412955122310501. Local number 42N/6W-10J1 M.
LOCATION.--Lat 41°29'55", long 122°31'05", about 8 mi (13 km) northwest of Weed.
Owner: G. G. Maxwell.
AQUIFER.--Pyroclastics.
WELL CHARACTERISTICS.--Drilled domestic water-table well, diameter 6 in (15.24 cm), depth 110 ft (33.5 m), casing information not available.
DATUM.--Altitude of land-surface datum is 2,835 ft (864.1 m) above mean sea level. Measuring point: Top of casing, 0.3 ft (0.09 m) above land-surface datum.
REMARKS.--Measurements after Mar. 4, 1966, by California Department of Water Resources.
PERIOD OF RECORD.--1953-54, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.42 ft (0.43 m) below land-surface datum, Apr. 27, 1962; lowest, 15.9 ft (4.85 m) below land-surface datum, Sept. 21, 1960.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 4, 1975	8.5	MAR. 17, 1976	8.3				

413710122235601. Local number 44N/5W-34H1 M.
LOCATION.--Lat 41°37'10", long 122°23'56", about 1.8 mi (2.9 km) north of Big Springs.
Owner: Henry Silva.
AQUIFER.--Plutos Cave Basalt of Holocene age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 16 in (40.64 cm), depth, 96 ft (29.3 m), casing information not available.
DATUM.--Altitude of land-surface datum is 2,637 ft (803.8 m) above mean sea level. Measuring point: Pump base, north side, at land-surface datum.
REMARKS.--Measurements after Mar. 4, 1966, by California Department of Water Resources.
PERIOD OF RECORD.--1953-54, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 23.46 ft (7.15 m) below land-surface datum, Sept. 28, 1961; lowest, 32.6 ft (9.94 m) below land-surface datum, Apr. 28, 1961.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 4, 1975	26.2	MAR. 18, 1976	27.8				

Sonoma County

Cloverdale Area

384717123004801. Local number 11N/10W-19F2 M.
LOCATION.--Lat 38°47'17", long 123°00'48", about 1 mi (2 km) south of Cloverdale.
Owner: California Division of Forestry.
AQUIFER.--Franciscan Formation of Late Jurassic to Late Cretaceous age, and Knoxville Formation of Late Jurassic age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in (0.20 m), depth 160 ft (48.8 m), cased to 135 ft (41.1 m), perforated 116-135 ft (35.4-41.1 m).
DATUM.--Altitude of land-surface datum is 346 ft (105.5 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1952-55, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.55 ft (0.168 m) below land-surface datum, Apr. 17, 1963; lowest measured, 17.32 ft (5.279 m) below land-surface datum, Sept. 15, 1964.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 7, 1975	9.8	MAR. 18, 1976	5.6				

Healdsburg Area

383535122521301. Local number 9N/9W-28N1 M.
LOCATION.--Lat 38°35'35", long 122°52'13", about 1 mi (2 km) south of Healdsburg.
Owner: G. P. Brown.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 10 in (0.25 m), depth 53 ft (16.2 m), casing information not available.
DATUM.--Altitude of land-surface datum is 90 ft (27.4 m).
PERIOD OF RECORD.--Water years 1953-54, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.6 ft (2.32 m) below land-surface datum, Feb. 9, 1960; lowest measured, 29.35 ft (8.946 m) below land-surface datum, Sept. 14, 1976.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 5, 1976	20.97	SEPT. 14, 1976	29.35				

Santa Rosa-Petaluma Area

382229122473101. Local number 6N/8W-7P2 M.
LOCATION.--Lat 38°22'29", long 122°47'31", about 5 mi (8 km) southwest of Santa Rosa.
Owner: Joseph Kardohely.
AQUIFER.--Merced Formation of Pliocene age.
WELL CHARACTERISTICS.--Drilled domestic and irrigation water-table well, diameter 8 in (0.20 m), depth 120 ft (36.6 m), casing information not available.
DATUM.--Altitude of land-surface datum is 95 ft (29.0 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1945, 1949 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.6 ft (3.23 m) below land-surface datum, Mar. 22, 1950; lowest measured, 49.0 ft (14.94 m) below land-surface datum, Oct. 8, 1970.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 9, 1975	23.6	MAR. 16, 1976	18.2				

Sonoma Valley

381700122261401. Local number 5N/5W-17C1 M.
LOCATION.--Lat 38°17'00", long 122°26'14", about 0.5 mi (0.8 km) north of Vineburg.
Owner: Virginia Raab.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled domestic water-table well, diameter 6 in (0.15 m), depth 64 ft (19.5 m), casing information not available.
DATUM.--Altitude of land-surface datum is 85 ft (25.9 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1962 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.9 ft (2.71 m) below land-surface datum, Mar. 20, 1973; lowest measured, 28.0 ft (8.53 m) below land-surface datum, Oct. 23, 1967.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 20, 1975	18.2	MAR. 9, 1976	13.4				

381452122264801. Local number 5N/5W-29N1 M.
LOCATION.--Lat 38°14'52", long 122°26'48", about 2.8 mi (4.5 km) south of Sonoma.
Owner: Moll.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 10 in (0.25 m), depth 100 ft (30.5 m), casing information not available.
DATUM.--Altitude of land-surface datum is 16 ft (4.9 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1951 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.0 ft (0.30 m) below land-surface datum, Apr. 24, 1967; lowest measured, 19.60 ft (5.974 m) below land-surface datum, Jan. 2, 1963.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 20, 1975	12.9	MAR. 9, 1976	10.2				

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ALAMEDA CREEK BASIN

Livermore-Amador Valley
Alameda County

STATION NUMBER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER	GEO-LOGIC UNIT	DATE OF SAMPLE	TIME	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
373734121525901	37 37 34	121 52 59	01	003S001E32K02M	112LVRM	75-10-24	1320	1550	--
						76-02-02	1510	1630	--
						76-04-08	1430	1550	--
						76-04-12	1100	1550	--
						76-07-13	1135	1550	7.1
373840121532901	37 38 40	121 53 29	01	003S001E29E03M	110ALVM	75-10-24	1400	1300	--
						76-02-03	1100	1150	--
						76-04-08	1530	1150	--
						76-04-12	1200	1150	--
						76-07-13	1040	1500	6.8
374027121462601	37 40 27	121 46 26	01	003S002E17G01M	111ALVM	76-07-12	1320	725	7.4
374102121493201	37 41 02	121 49 32	01	003S001E11J01M	110ALVM	75-10-24	1030	950	--
						76-02-02	1200	1040	--
						76-04-08	1200	1250	--
						76-04-12	1430	1100	--
						76-07-12	1530	1150	7.1
374105121521301	37 41 05	121 52 13	01	003S001E09L02M	110ALVM	75-10-24	1500	1600	--
						76-02-02	1100	1510	--
						76-04-08	1045	1650	--
						76-04-12	1330	1680	--
						76-07-12	1130	1730	6.9
374112121485001	37 41 12	121 48 50	01	003S001E12F01M	110ALVM	75-10-24	1120	1000	--
						76-02-02	1345	999	--
						76-04-08	1315	1000	--
						76-04-12	1530	1000	--
						76-07-12	1400	950	7.3

DATE OF SAMPLE	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
75-10-24	18.0	--	380	--	130	14	--	--	--	--	--	--
76-02-02	16.5	--	590	--	120	71	--	--	--	--	--	--
76-04-08	17.0	--	620	--	130	72	--	--	--	--	--	--
76-04-12	17.0	--	630	250	130	74	77	21	1.3	3.7	462	380
76-07-13	18.0	21	670	--	150	72	--	--	--	--	--	--
75-10-24	18.0	--	420	--	96	43	--	--	--	--	--	--
76-02-03	18.0	--	380	--	84	42	--	--	--	--	--	--
76-04-08	17.0	--	370	--	81	41	--	--	--	--	--	--
76-04-12	17.0	--	360	15	80	40	100	37	2.3	2.1	420	350
76-07-13	17.5	15	610	--	140	62	--	--	--	--	--	--
76-07-12	21.0	12	350	--	50	54	--	--	--	--	--	--
75-10-24	17.0	--	450	--	65	71	--	--	--	--	--	--
76-02-02	16.5	--	440	--	59	72	--	--	--	--	--	--
76-04-08	17.0	--	550	--	73	90	--	--	--	--	--	--
76-04-12	17.0	--	480	150	67	76	37	14	.7	2.1	397	326
76-07-12	18.5	16	490	--	51	87	--	--	--	--	--	--
75-10-24	17.0	--	290	--	91	14	--	--	--	--	--	--
76-02-02	16.0	--	500	--	80	72	--	--	--	--	--	--
76-04-08	17.0	--	620	--	100	91	--	--	--	--	--	--
76-04-12	16.0	--	610	140	120	75	120	30	2.1	3.2	571	468
76-07-12	18.0	18	700	--	140	85	--	--	--	--	--	--
75-10-24	18.0	--	410	--	58	64	--	--	--	--	--	--
76-02-02	17.0	--	400	--	50	68	--	--	--	--	--	--
76-04-08	17.5	--	450	--	54	76	--	--	--	--	--	--
76-04-12	17.5	--	440	91	56	72	47	19	1.0	2.1	421	345
76-07-12	18.0	12	430	--	56	71	--	--	--	--	--	--

Geological unit (aquifer):

110ALVM - Alluvium, Quaternary age.
112LVRM - Livermore Gravel, Pleistocene and Holocene age.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ALAMEDA CREEK BASIN
Livermore-Amador Valley--Continued
Alameda County--Contnued

DATE OF SAMPLE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	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)
75-10-24	--	240	--	--	882	--	--	--	--	--	--	.12
76-02-02	--	260	--	--	990	--	--	.11	--	.00	--	.11
76-04-08	--	240	--	--	880	--	--	.04	--	.00	--	.04
76-04-12	80	240	.3	26	--	863	1.17	--	--	--	--	--
76-07-13	--	260	.2	--	972	--	1.32	--	.00	--	.00	--
75-10-24	--	140	--	--	742	--	--	--	--	--	--	.69
76-02-03	--	120	--	--	699	--	--	.79	--	.01	--	.80
76-04-08	--	120	--	--	664	--	--	.41	--	.00	--	.41
76-04-12	85	120	.2	23	--	661	.90	--	--	--	--	--
76-07-13	--	200	.2	--	786	--	--	--	.29	--	.00	--
76-07-12	--	37	.2	--	472	--	.64	--	6.6	--	.00	--
75-10-24	--	110	--	--	588	--	--	--	--	--	--	7.5
76-02-02	--	110	--	--	597	--	--	7.9	--	.00	--	7.9
76-04-08	--	140	--	--	735	--	--	12	--	.00	--	12
76-04-12	51	120	.2	23	--	614	.84	--	--	--	--	--
76-07-12	--	140	.2	--	736	--	1.00	--	11	--	.00	--
75-10-24	--	200	--	--	889	--	--	--	--	--	--	5.8
76-02-02	--	190	--	--	867	--	--	6.7	--	.01	--	6.7
76-04-08	--	210	--	--	945	--	--	6.8	--	.05	--	6.8
76-04-12	84	200	.2	21	--	937	1.27	--	--	--	--	--
76-07-12	--	270	.2	--	1100	--	1.50	--	8.0	--	.00	--
75-10-24	--	79	--	--	563	--	--	--	--	--	--	8.3
76-02-02	--	80	--	--	565	--	--	9.3	--	.01	--	9.3
76-04-08	--	78	--	--	566	--	--	9.6	--	.00	--	9.6
76-04-12	30	79	.2	24	--	563	.77	--	--	--	--	--
76-07-12	--	79	.2	--	594	--	.81	--	11	--	.00	--

DATE OF SAMPLE	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	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)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
75-10-24	--	--	--	--	--	--	--	--	--	--	--	--
76-02-02	--	--	--	--	--	--	--	--	--	--	--	--
76-04-08	--	--	--	--	--	--	--	--	--	--	--	--
76-04-12	.10	--	1	900	1700	<10	10	10	2500	100	--	--
76-07-13	.00	.08	--	--	2400	--	--	--	--	--	--	--
75-10-24	--	--	--	--	--	--	--	--	--	--	--	--
76-02-03	--	--	--	--	--	--	--	--	--	--	--	--
76-04-08	--	--	--	--	--	--	--	--	--	--	--	--
76-04-12	.41	--	1	200	1300	<10	0	--	190	<100	<96	4
76-07-13	.29	--	--	--	--	--	--	--	--	--	--	--
76-07-12	6.6	.04	--	--	380	--	--	--	--	--	--	--
75-10-24	--	--	--	--	--	--	--	--	--	--	--	--
76-02-02	--	--	--	--	--	--	--	--	--	--	--	--
76-04-08	--	--	--	--	--	--	--	--	--	--	--	--
76-04-12	9.3	--	1	100	350	<10	20	10	20	<100	--	--
76-07-12	11	.06	--	--	540	--	--	--	--	--	--	--
75-10-24	--	--	--	--	--	--	--	--	--	--	--	--
76-02-02	--	--	--	--	--	--	--	--	--	--	--	--
76-04-08	--	--	--	--	--	--	--	--	--	--	--	--
76-04-12	6.8	--	1	400	1500	<10	10	10	100	100	--	--
76-07-12	8.0	.02	--	--	1900	--	--	--	--	--	--	--
75-10-24	--	--	--	--	--	--	--	--	--	--	--	--
76-02-02	--	--	--	--	--	--	--	--	--	--	--	--
76-04-08	--	--	--	--	--	--	--	--	--	--	--	--
76-04-12	10	--	1	300	480	<10	20	10	0	100	--	--
76-07-12	11	.04	--	--	550	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ALAMEDA CREEK BASIN
Livermore-Amador Valley--Continued
Alameda County--Contnued

DATE OF SAMPLE	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
75-10-24	--	--	--	--	1.9
76-02-02	--	--	--	--	44
76-04-08	--	--	--	--	5.5
76-04-12	.0	0	<10	20	--
76-07-13	--	--	--	--	--
75-10-24	--	--	--	--	1.8
76-02-03	--	--	--	--	1.5
76-04-08	--	--	--	--	7.4
76-04-12	.0	1	<10	30	--
76-07-13	--	--	--	--	--
76-07-12	--	--	--	--	--
75-10-24	--	--	--	--	4.4
76-02-02	--	--	--	--	.5
76-04-08	--	--	--	--	.5
76-04-12	.0	0	<10	10	--
76-07-12	--	--	--	--	--
75-10-24	--	--	--	--	2.4
76-02-02	--	--	--	--	3.5
76-04-08	--	--	--	--	14
76-04-12	.1	16	<10	10	--
76-07-12	--	--	--	--	--
75-10-24	--	--	--	--	3.0
76-02-02	--	--	--	--	.9
76-04-08	--	--	--	--	1.4
76-04-12	.1	0	<10	180	--
76-07-12	--	--	--	--	--

ALAMEDA CREEK BASIN
Niles Cone
Alameda County

STATION NUMBER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER	GEO-LOGIC UNIT	DATE OF SAMPLE	TIME	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
373349121585701	37 33 49	121 58 57	01	004S001W28D09M	111ALVF	75-11-05	1410	700	--
						76-01-21	1500	729	--
						76-05-05	1450	743	--
						76-07-21	1415	727	0
373355121583801	37 33 55	121 58 38	01	004S001W21P06M	111ALVF	76-01-21	1430	800	--
						76-05-05	1430	720	--
						76-07-21	1400	689	0
373357121591401	37 33 57	121 59 14	01	004S001W20R02M	111ALVF	75-11-04	1425	782	--
						76-01-21	1520	795	--
						76-05-05	1510	707	--
						76-07-21	1430	664	4
373424121584501	37 34 24	121 58 45	01	004S001W21F01M	111ALVF	76-01-21	1410	675	--
						76-05-05	1355	742	--

Geological unit (aquifer):
111ALVF - Alluvial Fan Deposits, Holocene age.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ALAMEDA CREEK BASIN
Niles Cone--Continued
Alameda County--Continued

DATE OF SAMPLE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
75-11-05	210	--	47	22	--	--	--	--	--	--	--	79
76-01-21	240	--	53	25	--	--	--	--	--	--	--	82
76-05-05	240	71	55	24	58	35	1.6	2.2	201	165	77	83
76-07-21	210	--	48	21	--	--	--	--	--	--	--	--
76-01-21	250	--	62	24	--	--	--	--	--	--	--	85
76-05-05	270	52	64	26	51	29	1.4	2.2	262	215	65	70
76-07-21	240	--	56	25	--	--	--	--	--	--	--	68
75-11-04	230	--	51	24	--	--	--	--	--	--	--	90
76-01-21	170	--	56	6.5	--	--	--	--	--	--	--	90
76-05-05	210	52	46	22	64	40	1.9	2.3	187	153	75	78
76-07-21	200	--	46	20	--	--	--	--	--	--	--	81
76-01-21	190	--	48	18	--	--	--	--	--	--	--	72
76-05-05	230	69	53	23	61	37	1.8	2.7	193	158	79	81

DATE OF SAMPLE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	DISSOLVED BORON (B) (UG/L)
75-11-05	--	--	402	--	--	--	--	1.8	--	--	--	--
76-01-21	--	--	422	--	--	2.2	.00	2.2	--	--	--	--
76-05-05	.2	14	433	424	.59	2.4	.00	2.4	2.4	0	200	420
76-07-21	--	--	--	--	--	3.0	.01	3.0	--	--	--	--
76-01-21	--	--	459	--	--	2.1	.00	2.1	--	--	--	--
76-05-05	.2	15	442	436	.60	2.9	.00	2.9	2.8	0	0	540
76-07-21	--	--	405	--	--	2.6	.01	2.6	--	--	--	--
75-11-04	--	--	449	--	--	--	--	1.5	--	--	--	--
76-01-21	--	--	465	--	--	1.9	.00	1.9	--	--	--	--
76-05-05	.2	13	408	407	.55	3.0	.00	3.0	3.0	0	100	650
76-07-21	--	--	384	--	--	3.4	.01	3.4	--	--	--	--
76-01-21	--	--	398	--	--	4.8	.00	4.8	--	--	--	--
76-05-05	.2	13	417	434	.57	5.8	.01	5.8	5.8	0	100	470

DATE OF SAMPLE	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
75-11-05	--	--	--	--	--	--	--	--	--	1.0
76-01-21	--	--	--	--	--	--	--	--	--	1.6
76-05-05	10	0	10	40	<100	1.2	0	<10	30	1.2
76-07-21	--	--	--	--	--	--	--	--	--	--
76-01-21	--	--	--	--	--	--	--	--	--	5.3
76-05-05	<10	0	10	10	100	1.0	1	<10	20	.7
76-07-21	--	--	--	--	--	--	--	--	--	--
75-11-04	--	--	--	--	--	--	--	--	--	16
76-01-21	--	--	--	--	--	--	--	--	--	13
76-05-05	<10	0	10	20	<100	.0	0	<10	90	1.4
76-07-21	--	--	--	--	--	--	--	--	--	--
76-01-21	--	--	--	--	--	--	--	--	--	1.8
76-05-05	<10	0	20	0	<100	.4	0	<10	20	11

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DRY CREEK
Sonoma County (revised)

STATION NUMBER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER	GEO-LOGIC UNIT	DATE OF SAMPLE	TIME	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
383104122523001	38 31 04	122 52 30	01	008N009W20R01M	111ALVM	76-03-08	0845	302	6.8
						76-04-05	1505	292	6.9
						76-04-09	1030	295	7.4
						76-06-15	1335	290	6.4
						76-08-18	0950	227	7.1
383310122511801	38 33 10	122 51 18	01	008N009W09J01M	111ALVM	76-06-15	1030	360	6.7
						76-09-14	1015	352	7.1
383536122520401	38 35 36	122 52 04	01	009N009W28N02M	111ALVM	76-04-05	1030	360	7.0
						76-09-14	1055	342	7.2
383655122530702	38 36 55	122 53 07	02	009N009W20E03M	111ALVM	76-03-08	1045	234	7.2
						76-04-05	1105	240	7.2
						76-04-09	1240	233	7.3
						76-06-15	1110	245	6.2
						76-08-18	0915	245	7.2
383954122554801	38 39 54	122 55 48	01	010N010W35Q02M	111ALVM	76-04-09	1220	182	6.8
384218122574701	38 42 18	122 57 47	01	010N010W22D01M	111ALVM	76-04-05	1330	195	6.7
384221122574401	38 42 21	122 57 44	01	010N010W22D02M	111ALVM	76-09-14	1305	247	6.9

DATE OF SAMPLE	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
76-03-08	15.0	0	160	10	30	21	9.6	11	.3	1.2	184	0
76-04-05	14.5	1	130	1	26	16	8.8	13	.3	1.1	158	0
76-04-09	14.5	0	140	1	26	17	8.8	12	.3	1.0	163	0
76-06-15	21.0	0	130	5	25	16	9.5	14	.4	1.1	150	0
76-08-18	17.0	0	120	5	24	15	8.4	13	.3	1.2	142	0
76-06-15	14.0	0	180	7	36	23	9.9	10	.3	1.4	217	0
76-09-14	18.0	1	170	0	35	20	9.5	11	.3	1.3	211	0
76-04-05	14.5	1	180	0	24	29	13	14	.4	.8	222	0
76-09-14	17.5	1	180	3	24	28	13	14	.4	.7	210	0
76-03-08	14.5	4	100	0	17	15	12	20	.5	.7	155	0
76-04-05	14.5	5	110	0	18	15	12	20	.5	.7	155	0
76-04-09	14.0	3	110	0	18	15	12	20	.5	.6	153	0
76-06-15	18.0	3	110	0	18	16	12	19	.5	.6	144	0
76-08-18	16.5	3	110	0	18	16	12	19	.5	.6	147	0
76-04-09	14.5	1	67	35	13	8.3	8.6	22	.5	.4	38	0
76-04-05	14.0	1	84	6	14	12	9.6	20	.5	.4	95	0
76-09-14	23.0	6	110	8	19	16	13	20	.5	1.1	129	0

Geological unit (aquifer):

111ALVM - Alluvium, Holocene age.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DRY CREEK--Continued
Sonoma County--Continued

DATE OF SAMPLE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)
76-03-08	146	18	7.6	.1	19	200	.27	.61	0	270	0	0
76-04-05	135	16	6.1	.1	14	168	.23	.42	0	310	0	0
76-04-09	137	17	5.9	.1	15	173	.24	.43	0	350	0	0
76-06-15	125	13	5.5	.3	16	161	.22	--	0	420	1	0
76-08-18	122	12	5.0	.1	15	151	.21	.02	0	410	0	0
76-06-15	176	15	5.6	.2	22	220	.30	--	--	290	--	--
76-09-14	179	18	6.1	.1	21	211	.29	.60	--	220	--	--
76-04-05	175	17	6.9	.2	25	231	.31	1.3	--	120	--	--
76-09-14	176	20	7.5	.1	25	226	.31	.90	--	150	--	--
76-03-08	122	3.8	4.7	.2	23	154	.21	.01	0	250	0	0
76-04-05	134	2.6	5.3	.1	23	154	.21	.01	0	230	0	10
76-04-09	127	3.5	5.5	.1	23	154	.21	.01	0	250	0	0
76-06-15	123	8.8	3.5	.4	25	156	.21	--	0	150	0	0
76-08-18	124	5.7	6.0	.1	23	154	.21	.01	0	250	0	0
76-04-09	32	15	11	.1	23	136	.19	8.6	--	50	--	--
76-04-05	78	19	5.2	.1	26	136	.19	.71	--	60	--	--
76-09-14	111	17	6.3	.1	19	156	.21	.17	--	230	--	--

DATE OF SAMPLE	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
76-03-08	3	70	2	.0	20	8.1
76-04-05	6	0	0	1.8	10	.4
76-04-09	2	0	0	.1	0	2.4
76-06-15	4	10	0	.3	20	1.2
76-08-18	2	10	0	.1	0	.0
76-06-15	--	10	--	--	--	1.3
76-09-14	--	0	--	--	--	3.9
76-04-05	--	10	--	--	--	.4
76-09-14	--	20	--	--	--	1.2
76-03-08	0	140	0	.0	310	.5
76-04-05	2	140	1	.4	350	.9
76-04-09	0	--	0	.1	340	.4
76-06-15	1	120	0	.0	200	3.2
76-08-18	0	30	0	.0	--	.0
76-04-09	--	0	--	--	--	.7
76-04-05	--	40	--	--	--	.5
76-09-14	--	10	--	--	--	2.5

INDEX

FACTORS FOR CONVERTING ENGLISH UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

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

Multiply English units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	*hectares (ha)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	**liters (l)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons (10^6 gal)	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
cfs-days [$(ft^3/s) \cdot d$]	2.447×10^{3}	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (l/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (l/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day (mgal/d)	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	tonnes (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.

U.S. DEPARTMENT OF THE INTERIOR
Geological Survey
855 Oak Grove Avenue
Menlo Park CA 94025