

Water Resources Data California

Water Year 1982

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



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CA-82-2
Prepared in cooperation with the California Department of
Water Resources and with other agencies

CALENDAR FOR WATER YEAR 1982

1981

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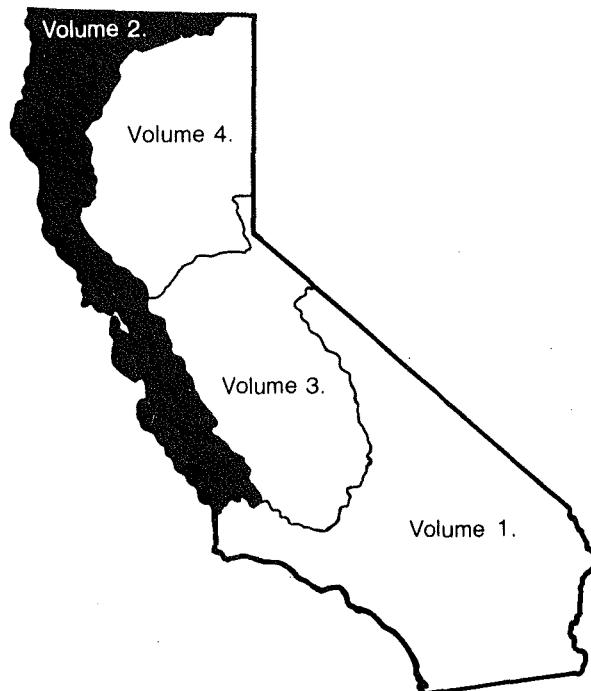


Water Resources Data California

Water Year 1982

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

by K.L. Markham, V. Piro, W.F. Shelton, and M.W. Weston, Jr.



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CA-82-2
Prepared in cooperation with the California Department of
Water Resources and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

WILLIAM P. CLARK, SECRETARY

GEOLOGICAL SURVEY

Dallas L. Peck, Director

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Sacramento, California 95825

1984

PREFACE

This volume of the annual hydrologic data report of California is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface-and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for California are contained in 4 volumes:

- Volume 1. 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

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data. Debra A. Grillo typed, edited, and assembled the report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the individuals contributing significantly to the collection, processing, and tabulation of the data are given on page V.

This report was prepared in cooperation with the California Department of Water Resources and with other agencies under the general supervision of Timothy J. Durbin, District Chief, California.

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SURFACE-WATER AND WATER-QUALITY STATIONS,
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[Letters after station name designate type of data:
(d), discharge; (p), precipitation; (l), lake contents; (c), chemical;
(b), biological; (t), water temperature; and (s) sediment]

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WATER RESOURCES DATA FOR CALIFORNIA, 1982

Volume 2

INTRODUCTION

Water-resources data for the 1982 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. 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, Text Products Section, U.S. Geological Survey, 604 South Pickett Street, Alexandria, Virginia 22304.

For water years 1961 through 1970, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1970 were similarly released, either in separate reports or in conjunction with streamflow records.

Beginning with the 1971 water year, water data for streamflow, water quality, and ground water are published in official Survey reports 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-82-2." These water-data reports are for sale, in paper copy or in microfiche, by the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the District Chief at the address given on the back of the title page or by telephone (916) 484-4606.

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 Flood Control and Water Conservation District, Zone 7,
Mun J. Mar, General Manager.
Monterey County Flood Control and Water Conservation District,
Robert R. Smith, District Engineer.
Napa County Department of Public Works, Harry D. Hamilton, Director.
San Benito County Water Conservation and Flood Control District,
Ralph G. Towle, District Secretary.
San Luis Obispo County Engineering Department, G. C. Protopapas,
County Engineer.
Santa Clara Valley Water District, J. T. O'Halloran, General Manager.
Santa Cruz County Planning Department, Kris Schenk, Director.
Santa Cruz County Flood Control and Water Conservation District,
D. A. Porath, District Engineer.
Soquel Creek County Water District, Robert M. Johnson, Engineer-Manager.

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

The following organizations aided in collecting records: Pacific Gas and Electric Co.

SUMMARY OF HYDROLOGIC CONDITIONS

Surface Water

The coastal area of northern and central California, covered by this volume, encompasses approximately 26,000 square miles of the coastal mountain ranges of California extending from the Oregon border to the Arroyo Grande drainage some 520 miles to the south and averages about 50 miles in width from the Pacific Ocean to the eastern ridge of the Coast Ranges bordering the Sacramento and San Joaquin Valleys. Stations reported in this volume include streams draining directly to the Pacific Ocean or San Francisco Bay and excludes Central Valley drainages. Precipitation over the north and central parts of the California coast results from frontal storms moving eastward from the Pacific Ocean. The heaviest precipitation can occur anywhere along the coast depending on the storm path, but it generally occurs along the north coast. Occasionally a southern storm will move to the northeast and cover parts of the central coast.

Precipitation was above normal during the 1982 water year. Divisional data (data from similar meteorological areas) show that precipitation in the north coastal area was 49 percent above normal and in the central coastal area it was 60 percent above normal. From October 1981 through April 1982, rainfall was above normal in all areas with the exception of the north coast in January and the coast south of San Francisco Bay in December.

For the coastal area covered in this volume, streamflow at the 11 index stations averaged 235 percent of the median and ranged from the lows of 149 percent for Trinity River at Hoopa in the extreme north coastal area and 179 percent for Arroyo Grande at Arroyo Grande in the central coastal area to a high of 449 percent for San Lorenzo Creek at Hayward in the San Francisco Bay area. Runoff at selected sites in California is shown in figure 1.

Contents of the 10 major reservoirs in northern and central California were 90 percent of their historical average at the start of the year and rose to 134 percent of the average at years' end.

Peaks of record occurred on many coastal streams during a storm, January 3-5, 1982, where stream gages were established on these streams after 1963. The January 3-5 storm was centered between the Russian River, north of Santa Rosa, and the Pajaro River, near Watsonville on the south. This storm, coupled with the antecedent soil conditions produced by the above normal rainfall during October through December, was the cause of disastrous slides and flooding. Storm rainfall in Marin County, north of San Francisco, measured 13.5 inches at Kentfield in the Corte Madera Creek basin, causing major flooding in the cities of San Rafael, San Anselmo, and Kentfield. Disastrous flooding and slides also occurred in the Inverness area of western Marin County.

In the Santa Cruz mountains and along the coast south of San Francisco, the storm caused flooding and massive earthslides. More than 16 inches of rain was reported in a 30-hour period at the town of Felton in the mountains above Santa Cruz. Hundreds of homes were destroyed or damaged, as were roads and bridges. Approximately 30 deaths were attributed to slides in the coastal area, and damages were estimated to be \$300 million.

Peak discharges in the Santa Cruz-San Mateo County area indicate flood frequencies from about 5 to 30 years. Although the storm was not considered a major hydrologic event, the widespread damage and loss of life were the result of the duration of the January 3-5 storm, soil moisture conditions prior to the storm, and increased development on steep hillsides on the flood plains.

Ground Water

The geography and geology of California are sufficiently complex that a brief summary of ground-water conditions in the State is difficult. Descriptions of conditions in specific basins and valleys apply only to those areas and may not apply to others.

Ground-water levels fluctuate in response to a variety of stresses and changes in stress. Short- and long-term climatic conditions can lead to changes in natural recharge and discharge. Ground-water pumping can also cause changes in water levels.

Water levels along the northern and central coastal areas of California showed little change from the past 3 years. Seasonal changes continued the patterns established in previous years.

Water Quality

The quality of surface water in the area covered by this volume varies greatly from place to place, as well as from season to season. Generally, the dissolved-solids concentration of surface waters to the east and south of San Francisco Bay are greater than that of the waters to the north and west.

In the 1982 water year, dissolved-solids concentrations generally were lower than the previous year. Dissolved-solids concentrations were greatest at the Pajaro River near Chittenden station (11159000), where the median concentration was 668 mg/L, and lowest at Smith River near Crescent City (11532500), where the median concentration was 46 mg/L. At surface-water stations in the Alameda Creek basin, median dissolved-solids concentrations ranged from 277 to 659 mg/L; and at stations in four Santa Clara County basins (Los Gatos Creek, Guadalupe River, Coyote Creek, and Llagas Creek) median concentrations ranged from 169 to 268 mg/L.

Concentrations of certain chemical constituents in water exceeded the recommended Environmental Protection Agency (EPA) levels in some areas. At times streams in the Alameda Creek basin had boron concentrations in excess of 750 µg/L, the EPA water-quality criterion for long-term irrigation of sensitive crops such as citrus. Mercury and lead concentrations in storm runoff at Castro Valley Creek at Hayward (11181008) at times exceeded the EPA water-quality criteria for domestic water supplies (2.0 µg/L, mercury; 50 µg/L, lead). At Los Gatos Creek at Los Gatos (11168000) the iron concentration of a January sample exceeded 200 µg/L, the EPA water-quality criterion for domestic water supplies. At Los Gatos Creek at Lincoln Avenue (11168800) the January malathion concentration exceeded 0.1 µg/L, the EPA water-quality criterion for protection of freshwater and marine aquatic life. Manganese concentrations at Llagas Creek near Morgan Hill (11153500) were more than 50 µg/L, the EPA water-quality criterion for domestic water supplies.

The fecal coliform bacteria objective for streams in the San Francisco Bay area (log mean of 200 per 100 mL based on at least five samples during a 30-day period) was exceeded at Llagas Creek at Machado School (11153530), Llagas Creek at San Martin (11153555), Guadalupe Creek at Guadalupe (11167500), Guadalupe River at Alamitos Recharge Facility (11167572), Los Gatos Creek at Lark Avenue (11168660), Guadalupe River at San Jose (11169000), and Coyote Creek near Edenvale (11171500).

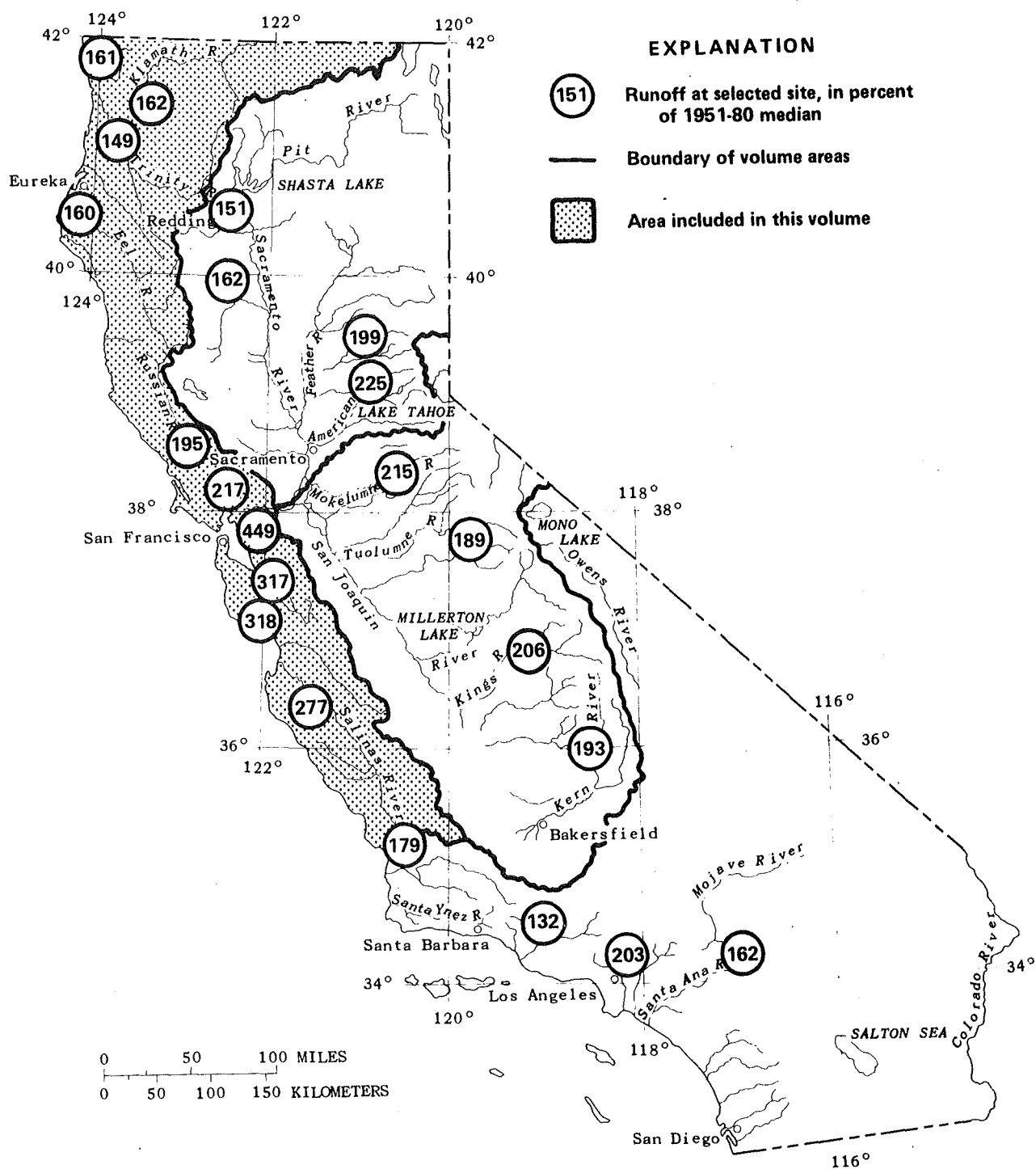


FIGURE 1. — Runoff for the current water year.

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 inch-pound units to International System units (SI) on the inside of the back cover.

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

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

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

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

Bacteria are 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, decomposing organic matter into a form available for reuse by plants.

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. For the membrane filter method these bacteria are defined as the organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C \pm 0.5°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. For the membrane filter method they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C \pm 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 streptococcal bacteria are bacteria found 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. For the membrane filter method they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C \pm 0.05°C on KF Streptococcus agar (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 organisms living in or on 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.

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of only readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom 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 in milliliters (mL) or liters (L).

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

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 is that material in a representative water sample which passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate. It is recognized that certain kinds of samples cannot be filtered; to provide for this, procedures that are considered equivalent to filtering through a 0.45-micrometer membrane filter will be identified and announced a later date.

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

$$\bar{d} = \frac{s}{i \sum_{i=1}^s \frac{n_i}{n}} \log_2 \frac{n_i}{n},$$

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

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 hydrologic data 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).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

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

$$I = I_0 e^{-\lambda L},$$

where I_0 is the source light intensity, I is the light intensity at length L (in meters) from the source, λ is the light-attenuation coefficient, and e is the base of the natural logarithm. The light-attenuation coefficient is defined as

$$\lambda = -\frac{1}{L} \log_e \frac{I}{I_0}.$$

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-pupa-adult or egg-nymph-adult.

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

Micrograms per gram (UG/G, $\mu\text{g/g}$) 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, $\mu\text{g/L}$) 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.

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

Nekton are the consumers in 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.

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7 are termed acidic, and solutions with a pH greater than 7 are termed basic. Solutions with a pH of 7 are neutral. The presence and concentration of many dissolved chemical constituents found in water are, in part, influenced by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms are also influenced, in part, by the hydrogen-ion activity of water.

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

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/(m².time) for periphyton and macrophytes and mg C/(m³.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 O₂/(m².time) for periphyton and macrophytes and mg O₂/(m³.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.

Pseudomonas aeruginosa is a motile, gram-negative, rod-shaped bacterium that excretes a water-soluble, greenish, fluorescent pigment. The bacterium is noted for its aerobic, nutritional versatility, utilizing more than one hundred organic compounds as its sole source of carbon and energy, but can be an anaerobe in the presence of nitrate, reducing it to either nitrite, ammonia, or free nitrogen. P. aeruginosa is a pathogen of humans and animals and has been suggested as an indicator of sewage contamination because the human intestinal tract appears to be the major reservoir from which this bacterium reaches water environments. Its sanitary significance in surface waters is primarily related to its association with outer-ear infections of swimmers.

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

Bedload is the sediment that is transported in a stream by rolling, sliding, or skipping along the bed and very close to it. In this report, bedload is considered to consist of particles in transit within 0.25 ft (0.076 m) of the streambed.

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

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

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

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft or 0.09 m above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Sediment--Continued

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, or volume, that passes a section in a given time. It is computed by multiplying discharge times milligrams per liter times 0.0027.

Suspended-sediment load (tons per day) is the quantity of suspended sediment passing a section in a specified period.

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

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

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

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

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

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

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 multiplate samplers (made of hardboard) for benthic-organism collection and plexiglass strips for periphyton collection.

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

Surficial bed material is the part (upper 0.1 to 0.2 ft or 0.03 to 0.06 m) of the bed material that is sampled by using U.S. Series Bed-Material Samplers.

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

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

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.....	<u>Hexagenia</u>
Species.....	<u>limbata</u>

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

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

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

Total load (tons) is the total amount 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.

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

Turbidity of a sample is the reduction of transparency due to the presence of particulate matter. In this report it is expressed in Nephelometric turbidity units (NTU), obtained from the Nephelometric method for turbidity determination which measures the intensity of light scattered by suspended particles at 90 degrees from the path of an incident light source (see also p. 25).

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

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

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a mainstream station are listed before that station. A station on a tributary that enters between two mainstream 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 indentation in a list of stations in the front of the report. Each indentation represents one rank. This downstream order and system of indentation shows which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each surface-water station, water-quality station, and partial-record station has been assigned a station number. These are in the same downstream order as used in this report. In assigning station numbers, no distinction is made between partial-record and continuous-record stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. Gaps are left between the numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete 8-digit number for each station, such as 11467000, which appears just to the left of the station name, includes the 2-digit number "11" plus the 6-digit downstream order number "467000". In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records for California are in Part 10 (The Great Basin), and Part 11 (Pacific slope basins in California). All records for a drainage basin encompassing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

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

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

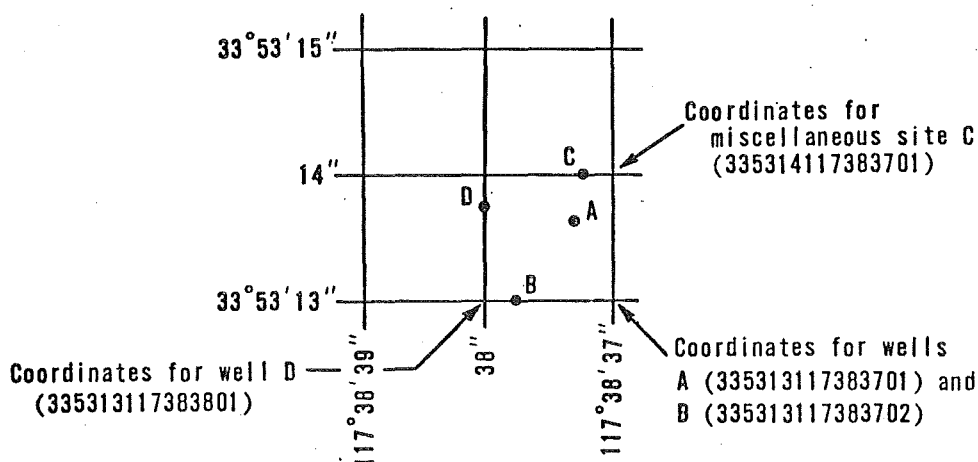


Figure 2.--System for numbering wells and miscellaneous sites (latitude and longitude).

Local well numbers

Wells and springs in California are assigned numbers according to their location on the rectangular system for the subdivision of public land. For example, in the number 005S/010E-22G01 M, the part of the number preceding the slash indicates the township (T.5 S.) and the number between the slash and hyphen indicates the range (R.10 E.); the digits following the hyphen indicate the section (sec.22); the letter following the section number indicates the 40-acre subdivision of the section. Within each 40-acre tract, the wells are numbered serially, as indicated by the final digit. The final letter, separated from the rest of the number by a space, indicates the base line and meridian. Base-line and meridian designations are as follows: H, Humboldt; M, Mount Diablo; S, San Bernardino. See figure 3.

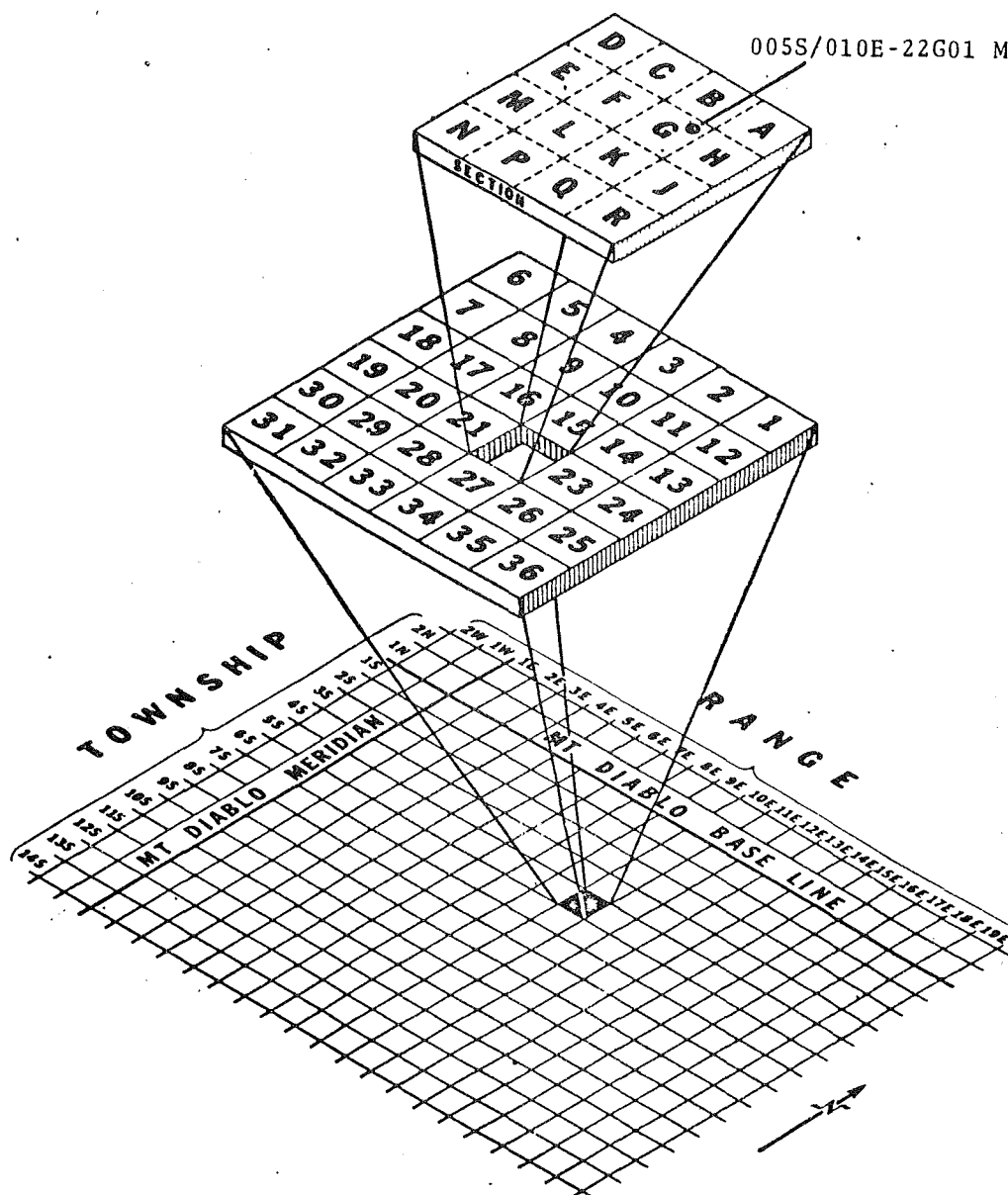


FIGURE 3.--California well-numbering system.

SPECIAL NETWORKS AND PROGRAMS

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

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

Volume 2:

11475560 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:

10254670 Alamo River at Drop No. 3, near Calpatria, 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
11042000 San Luis River at Oceanside, CA
11074000 Santa Ana River below Prado Dam, CA
11103010 Los Angeles River at Willow Street Bridge, at Long Beach, CA
11108500 Santa Clara River at Los Angeles-Ventura County line, CA

Volume 2:

11152300 Salinas River near Chualar, CA
11159000 Pajaro River at Chittenden, CA
11458000 Napa River near Napa, CA
11467000 Russian River near Guerneville, CA
11477000 Eel River at Scotia, CA
11530500 Klamath River near Klamath, CA
11532500 Smith River near Crescent City, CA

Volume 3:

11187000 Kern River at Kernville, CA
11218500 Kings River below North Fork, near Trimmer, CA
11303500 San Joaquin River near Vernalis, CA
11325500 Mokelumne River at Woodbridge, CA

Volume 4:

10356500 Susan River at Susanville, CA
11370500 Sacramento River at Keswick, CA
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 inter-agency activity.

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

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams and canals, and stage and contents 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. Measurements 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 computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

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

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

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

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

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

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

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

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published, along with the current records, in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1933 stands for the water year October 1, 1932, to September 30, 1933. If no daily, monthly, or annual figures of discharge are affected by the revision, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the daily 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 referred to National Geodetic Vertical Datum of 1929, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum is explained in "DEFINITION OF TERMS" on page 10.

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.

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 daily 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.

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

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 ft³/s; to tenths between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures above 1,000 ft³/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 230-81, "Index to Sources of Hydrologic Data." 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 parameters 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.

pH

At some stations, pH is measured on a continual basis. The results are reported as maximum, minimum, and mean values for each day and month. The mean pH values reported were computed from the pH values recorded by the monitor and is equal to the negative logarithm of the geometric mean of the hydrogen-ion activity.

Water temperature

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

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

Sediment

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

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

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

In addition to the records of suspended-sediment discharge, estimates of bedload and total-sediment discharge are included for some stations. Also included are particle-size distribution analyses of suspended sediment, surface bed material, and bedload material (sediment in transit within 0.25 ft (0.076 m) of the bed).

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

The Helley-Smith sampler is designed to collect a time-weighted sample of the sediment moving within 0.25 ft (0.076 m) of the streambed. Sediment moving in this portion of the flow cannot be sampled with standard suspended-sediment samplers. It is assumed that samples obtained by this sampler represent the bedload discharge when used in coarse-material bedded streams (median diameter coarser than about 4 mm) and that these data can be used in conjunction with theoretical computations to define the bedload-transport relation for a station.

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

Turbidity

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

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

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

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

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

Water-level measurements in this report are given in feet with reference to either National Geodetic Vertical Datum of 1929 (NGVD) or land-surface datum (lsd). National Geodetic Vertical Datum 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 referred to National Geodetic Vertical Datum 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.

In this report basin names and numbers, for example Salinas Valley Basin (3-4), are from "California's Ground Water," California Department of Water Resources Bulletin No. 118, 1975, 135 p.

PUBLICATIONS OF TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-seven 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, 604 South Pickett Street, Alexandria, VA 22304 (authorized agent of the Superintendent of Documents, Government Printing Office).

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-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.
- 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.
- 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.
- 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.
- 3-A2. Measurement of peak discharge by the slope-area method, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. Measurement of peak discharge at culverts by indirect methods, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3, 1968. 60 pages.
- 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.
- 3-A5. Measurement of peak discharge at dams by indirect methods, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5, 1967. 29 pages.
- 3-A6. General procedure for gaging streams, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6, 1968. 13 pages.
- 3-A7. Stage measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. Discharge measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A9. Measurement of time of travel and dispersion in streams by dye tracing, by E. F. Hubbard, F. A. Kilpatrick, L. A. Martens, and J. R. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1982. 44 pages.
- 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.
- 3-B1. Aquifer-test design, observation, and data analyses, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. Introduction to ground-water hydraulics, a programed text for self-instruction, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-B3. Type curves for selected problems of flow to wells in confined aquifers, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.

- 3-C1. Fluvial sediment concepts, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 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.
- 3-C3. Computation of fluvial-sediment discharge, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
- 4-A1. Some statistical tools in hydrology, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
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- 4-B3. Regional analyses of streamflow characteristics, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 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.
- 5-A1. Methods for determination of inorganic substances in water and fluvial sediments, edited by M. W. Skougstad, M. J. Fishman, L. C. Friedman, D. E. Erdmann, and S. S. Duncan: USGS--TWRI Book 5, Chapter A1. 1979. 626 p.
- 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.
- 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.
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- 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.
- 5-C1. Laboratory theory and methods for sediment analyses, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
- 7-C1. Finite-difference model for aquifer simulation 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.
- 7-C2. Computer model of two-dimensional solute transport and dispersion in ground water, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
- 7-C3. A model for simulation of flow in singular and interconnected channels, by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.
- 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.
- 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.

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, Hydrologic Unit 18060006, 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 mi² (35.0 km²).

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

AVERAGE DISCHARGE.--15 years, 2.93 ft³/s (0.083 m³/s), 2,120 acre-ft/yr (2.61 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,270 ft³/s (36.0 m³/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 ft³/s (9.91 m³/s) on basis of slope-area measurement of maximum flow, maximum gage height, 8.29 ft (2.527 m) Apr. 4, 1978; minimum daily discharge, 0.12 ft³/s (0.003 m³/s) Sept. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 40 ft³/s (1.1 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 17	0100	43 1.22	5.15 1.570
Apr. 1	0045	162 4.59	6.01 1.832
Apr. 11	0830	*277 7.84	6.56 1.999

Minimum daily, 0.17 ft³/s (0.005 m³/s) Oct. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	.44	1.1	2.6	1.2	3.6	109	5.2	2.9	1.5	1.1	1.1
2	.61	.46	1.1	2.3	1.2	7.2	33	5.2	2.9	1.5	1.1	1.0
3	.87	.51	1.0	1.1	1.2	3.0	19	5.2	2.8	1.5	1.1	.92
4	.87	.70	1.1	1.3	1.2	2.4	16	5.1	2.7	1.5	1.1	.92
5	.67	.91	1.2	3.4	1.2	2.3	14	5.1	2.5	1.4	1.1	.90
6	.51	.78	1.2	1.4	1.2	2.2	14	5.0	2.5	1.4	1.1	.88
7	.53	.60	1.0	1.0	1.2	2.2	13	5.1	2.5	1.5	1.1	.89
8	.48	.48	1.0	.88	1.2	2.2	13	5.1	2.5	1.4	1.1	.90
9	.33	.37	1.2	.82	1.2	2.3	13	5.0	2.4	1.4	1.1	.96
10	.61	.58	1.3	.79	3.6	2.5	24	4.9	2.3	1.4	1.1	1.0
11	.68	.61	1.1	.71	1.9	4.1	89	4.8	2.3	1.3	1.0	.97
12	.73	.78	1.2	.72	1.6	3.5	12	4.7	2.3	1.4	1.1	.95
13	.82	1.2	1.2	.63	1.6	2.9	8.6	4.7	2.3	1.4	1.2	.94
14	.80	2.5	1.3	.75	1.7	6.5	7.6	4.5	2.2	1.4	1.1	.94
15	.60	1.5	1.3	.74	2.0	3.7	7.0	4.5	2.1	1.3	1.1	1.0
16	.50	1.4	1.3	.69	6.2	11	6.6	5.0	2.1	1.3	1.1	1.1
17	.26	1.9	1.4	.72	2.2	28	6.3	5.7	2.9	1.3	1.1	1.1
18	.19	1.3	1.5	.50	1.8	23	6.1	5.1	3.3	1.4	1.1	1.0
19	.17	1.2	1.6	1.1	1.7	8.7	6.1	4.4	1.9	1.4	1.1	.97
20	.19	1.1	4.0	11	1.5	5.0	6.0	4.4	1.7	1.4	1.1	.90
21	.29	1.2	2.3	5.8	1.6	3.7	5.7	4.5	1.7	1.4	1.0	.86
22	.29	1.2	1.6	2.1	1.6	3.0	5.8	4.5	1.8	1.3	1.0	.86
23	.22	1.4	1.5	1.6	1.5	2.7	6.2	4.1	1.7	1.3	1.0	.89
24	.23	1.5	1.3	1.6	1.6	2.4	6.0	4.0	1.7	1.3	1.1	.94
25	.49	1.2	1.3	1.5	1.6	2.4	6.0	4.2	1.7	1.3	1.1	1.2
26	.79	1.5	1.2	1.9	1.6	3.3	5.6	4.3	1.6	1.3	1.1	1.4
27	.62	5.3	1.2	1.6	1.6	2.4	5.5	4.2	1.5	1.3	1.0	1.1
28	2.1	2.1	1.1	1.7	1.7	3.9	5.4	3.8	1.5	1.3	1.1	1.1
29	1.1	1.5	2.1	1.4	---	8.1	5.3	3.6	1.6	1.2	1.1	1.1
30	.65	1.3	8.8	1.3	---	5.1	5.2	3.6	1.6	1.2	1.0	1.0
31	.47	---	1.6	1.2	---	23	---	3.4	---	1.1	1.0	---
TOTAL	17.97	37.52	51.1	54.85	49.4	186.3	480.0	142.9	65.5	42.1	33.5	29.79
MEAN	.58	1.25	1.65	1.77	1.76	6.01	16.0	4.61	2.18	1.36	1.08	.99
MAX	2.1	5.3	8.8	11	6.2	28	109	5.7	3.3	1.5	1.2	1.4
MIN	.17	.37	1.0	.50	1.2	2.2	5.2	3.4	1.5	1.1	1.0	.86
AC-FT	36	74	101	109	98	370	952	283	130	84	66	59

CAL YR 1981	TOTAL	862.15	MEAN 2.36	MAX 61	MIN .17	AC-FT 1710
WTR YR 1982	TOTAL	1190.93	MEAN 3.26	MAX 109	MIN .17	AC-FT 2360

ARROYO GRANDE BASIN

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, Hydrologic Unit 18060006, 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 mi² (55.9 km²).

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 fair. Small diversions above station for domestic use.

AVERAGE DISCHARGE.--15 years, 10.5 ft³/s (0.297 m³/s), 7,610 acre-ft/yr (9.38 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,830 ft³/s (80.1 m³/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 ft³/s (8.50 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.30 ft³/s (0.008 m³/s) Aug. 1, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 50 ft³/s (1.4 m³/s) and maximum (*) from rating curve extended as explained above:

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 5	0500	88 2.49	4.84 1.475	Mar. 17	1200	385 10.9	5.21 1.588
Jan. 20	2045	78 2.21	4.81 1.466	Mar. 31	2145	768 21.7	6.14 1.871
Mar. 2	1800	69 1.95	4.78 1.457	Apr. 11	0915	*1,460 41.3	7.42 2.262

Minimum daily, 1.5 ft³/s (0.042 m³/s) Oct. 2, 3, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	2.8	3.1	20	6.3	4.7	364	8.6	7.1	4.5	2.6	2.4
2	1.5	2.6	2.9	20	6.0	52	75	8.6	6.7	4.2	2.7	2.3
3	1.5	2.6	2.8	16	6.2	38	34	8.6	6.3	4.4	2.8	2.3
4	1.8	2.6	2.8	13	5.6	20	23	8.4	6.3	4.4	2.6	2.2
5	1.9	2.6	2.8	60	5.5	15	16	8.4	6.2	4.0	2.4	2.2
6	1.7	2.6	2.8	26	5.1	11	12	8.4	5.9	4.1	2.4	2.3
7	1.5	2.6	2.8	16	5.5	8.8	8.0	8.4	5.9	4.0	2.5	2.3
8	1.6	2.6	2.8	13	5.1	7.6	6.0	9.6	5.9	3.9	2.6	2.3
9	1.6	2.6	2.8	11	5.0	7.0	4.6	8.2	5.9	3.9	2.6	2.3
10	1.6	2.6	2.8	10	4.9	6.5	14	8.0	5.9	3.7	2.5	2.3
11	1.8	2.6	2.8	9.3	5.1	6.0	516	7.9	5.9	3.7	2.4	2.2
12	2.0	2.6	2.8	8.8	5.1	6.0	142	7.8	5.9	3.8	2.6	2.1
13	2.0	2.6	2.8	7.7	5.1	5.1	64	7.8	5.9	3.6	2.8	2.2
14	2.0	9.8	2.8	7.0	5.1	11	42	7.7	5.9	3.5	2.7	2.2
15	2.0	4.4	3.0	6.6	5.1	13	32	7.6	5.6	3.4	2.8	2.4
16	2.0	3.6	3.3	6.5	6.1	24	29	7.6	5.0	3.5	2.6	2.6
17	2.0	3.1	3.4	6.5	6.5	216	23	7.5	5.0	3.4	2.6	2.6
18	2.2	2.8	3.4	6.0	5.5	134	19	7.4	5.0	3.5	2.6	2.5
19	2.2	2.8	3.4	6.0	5.1	66	18	7.4	5.0	3.5	2.6	2.4
20	1.7	2.8	5.2	30	4.3	36	14	7.3	5.0	3.3	2.5	2.5
21	1.6	2.8	6.5	56	4.3	22	15	7.3	5.0	3.0	2.3	2.3
22	1.6	2.8	6.0	30	4.0	16	14	7.3	4.9	2.9	2.4	2.4
23	1.6	2.8	6.0	19	3.7	39	14	7.3	4.6	2.9	2.4	2.3
24	1.6	2.6	6.0	12	3.1	11	13	7.3	4.7	3.1	2.4	2.7
25	1.6	2.6	6.0	7.4	3.1	10	12	7.3	4.6	3.1	2.4	2.7
26	1.6	2.6	6.0	6.0	3.1	10	11	7.3	4.5	2.9	2.3	2.9
27	1.8	4.8	6.0	5.9	2.8	9.1	8.7	7.3	4.5	2.8	2.4	2.8
28	3.6	4.0	6.0	6.3	2.6	11	9.6	7.3	4.6	2.9	2.5	2.5
29	3.6	3.4	7.5	6.5	---	33	9.1	7.3	4.5	2.7	2.5	2.4
30	2.8	3.1	27	6.5	---	56	8.6	7.3	4.6	2.6	2.6	2.4
31	2.8	---	17	6.5	---	200	---	7.3	---	2.6	2.4	---
TOTAL	60.4	94.8	161.3	461.5	134.9	1104.8	1570.6	241.5	162.8	107.8	78.5	72.0
MEAN	1.95	3.16	5.20	14.9	4.82	35.6	52.4	7.79	5.43	3.48	2.53	2.40
MAX	3.6	9.8	27	60	6.5	216	516	9.6	7.1	4.5	2.8	2.9
MIN	1.5	2.6	2.8	5.9	2.6	4.7	4.6	7.3	4.5	2.6	2.3	2.1
AC-FT	120	188	320	915	268	2190	3120	479	323	214	156	143

CAL YR 1981 TOTAL 3133.3 MEAN 8.58 MAX 228 MIN 1.5 AC-FT 6210
WTR YR 1982 TOTAL 4250.9 MEAN 11.6 MAX 516 MIN 1.5 AC-FT 8430

11141500 ARROYO GRANDE AT ARROYO GRANDE, CA

LOCATION.--Lat 35°07'28", long 120°34'05", in Pismo Grant, San Luis Obispo County, Hydrologic Unit 18060006, on left bank at Arroyo Grande, 0.7 mi (1.1 km) upstream from U.S. Highway 101.

DRAINAGE AREA.--102 mi² (264 km²).

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) National Geodetic Vertical Datum of 1929. 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 hm³). Many small and intermittent diversions by pumping from stream for irrigation of about 4,000 acres (16.2 km²) above station.

AVERAGE DISCHARGE.--29 years (water years 1940-68), 19.4 ft³/s (0.549 m³/s), 14,060 acre-ft/yr (17.3 hm³/yr); 14 years (water years 1969-82), 14.0 ft³/s (0.396 m³/s), 10,140 acre-ft/yr (12.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,400 ft³/s (153 m³/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 ft³/s (84.7 m³/s) Feb. 24, 1969, gage height, 9.48 ft (2.890 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,160 ft³/s (32.9 m³/s) Apr. 11, gage height, 5.36 ft (1.634 m); minimum daily, 1.9 ft³/s (0.054 m³/s) Oct. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	5.2	5.4	8.4	6.3	7.4	190	25	7.2	6.1	4.5	3.6
2	2.1	4.7	5.1	8.3	6.1	9.1	42	25	7.1	6.5	4.2	3.0
3	4.2	5.0	5.4	7.2	5.7	8.1	24	24	6.9	5.2	3.1	2.4
4	4.1	5.0	5.2	7.6	6.1	7.6	18	21	6.4	6.3	3.4	2.2
5	3.6	5.4	5.1	9.2	5.4	6.9	15	18	5.8	5.5	2.8	2.4
6	3.2	5.2	5.2	7.7	5.0	6.6	13	19	7.7	4.8	2.9	3.8
7	3.1	4.9	5.1	7.4	6.3	6.7	11	18	6.7	5.0	2.5	3.9
8	2.8	4.8	5.3	7.5	5.9	6.5	11	18	5.8	4.0	3.7	2.8
9	3.5	4.7	5.4	7.3	5.9	5.9	9.6	18	4.7	3.7	3.9	2.9
10	3.4	4.5	5.1	7.1	11	6.1	27	16	5.1	3.1	2.7	2.7
11	4.4	5.3	5.1	7.5	8.6	7.7	475	16	5.1	3.1	3.5	3.4
12	3.8	5.5	4.9	7.2	8.4	7.2	456	14	5.1	3.5	3.7	3.3
13	3.5	4.8	4.8	6.8	8.5	6.8	324	13	5.3	2.9	3.7	3.6
14	3.0	5.4	4.9	6.2	8.9	8.7	224	12	5.7	3.5	3.4	3.4
15	2.4	5.6	4.6	6.5	9.3	7.2	170	11	6.0	3.4	3.7	4.0
16	2.5	5.6	5.0	6.5	12	13	138	11	7.2	2.5	4.1	4.5
17	2.6	6.1	4.7	6.9	7.5	44	115	12	7.3	2.6	3.7	4.0
18	1.9	5.2	5.0	6.8	7.2	30	100	9.7	8.1	3.9	3.7	4.0
19	2.3	4.9	5.0	7.2	6.9	18	77	9.1	7.0	3.8	3.7	4.2
20	2.6	5.0	6.0	13	6.7	12	64	9.4	7.7	3.6	3.6	3.5
21	2.9	5.3	5.8	10	6.7	9.6	59	9.2	6.2	4.4	3.1	3.1
22	3.7	5.8	5.2	7.2	6.2	9.0	49	10	4.8	3.5	3.1	3.7
23	3.0	5.6	5.1	6.6	5.2	8.5	46	11	6.2	2.7	4.9	4.1
24	2.8	5.4	5.1	6.7	5.4	7.8	44	12	7.7	3.7	3.5	4.1
25	4.3	4.9	5.3	6.3	6.0	8.3	42	12	6.6	3.2	3.7	4.2
26	4.6	5.4	5.0	6.6	5.7	8.7	41	11	6.7	3.3	4.1	4.5
27	4.5	7.7	5.3	6.7	4.9	7.7	38	11	5.9	3.6	3.3	4.4
28	5.9	6.2	5.5	6.6	4.7	8.3	35	9.7	6.7	3.2	5.3	3.6
29	5.3	5.7	6.7	6.3	---	11	32	9.7	6.2	3.4	13	4.1
30	5.2	5.5	8.7	6.5	---	11	29	9.0	6.3	3.7	3.7	4.0
31	4.5	---	7.1	6.5	---	44	---	8.2	---	4.0	3.4	---
TOTAL	108.2	160.3	167.1	228.3	192.5	359.4	2918.6	432.0	191.2	121.7	121.6	107.4
MEAN	3.49	5.34	5.39	7.36	6.88	11.6	97.3	13.9	6.37	3.93	3.92	3.58
MAX	5.9	7.7	8.7	13	12	44	475	25	8.1	6.5	13	4.5
MIN	1.9	4.5	4.6	6.2	4.7	5.9	9.6	8.2	4.7	2.5	2.5	2.2
AC-FT	215	318	331	453	382	713	5790	857	379	241	241	213
CAL YR 1981 TOTAL	2318.60			MEAN 6.35	MAX 125	MIN .50	AC-FT 4600					
WTR YR 1982 TOTAL	5108.30			MEAN 14.0	MAX 475	MIN 1.9	AC-FT 10130					

BIG SUR RIVER BASIN

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, Hydrologic Unit 18060006, on right bank at downstream side of bridge, 0.4 mi (0.6 km) upstream from Post Creek, and 2.6 mi (4.2 km) southeast of town of Big Sur.

DRAINAGE AREA.--46.5 mi² (120.4 km²).

PERIOD OF RECORD.--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 240 ft (73 m), revised, 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.--32 years, 100 ft³/s (2.832 m³/s), 72,740 acre-ft/yr (89.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,700 ft³/s (303 m³/s) Jan. 5, 1978, gage height, 14.30 ft (4.359 m); minimum daily, 2.6 ft³/s (0.074 m³/s) Aug. 23, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft³/s (20 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)				
Nov. 13	2315	2,060	58.3	7.77	2.368	Mar. 31	1600	1,780	50.4	7.45	2.271
Jan. 5	0315	*4,030	114	9.63	2.935	Apr. 3	1200	1,220	34.6	6.73	2.051
Feb. 16	0515	917	26.0	6.26	1.908	Apr. 11	1345	3,640	103	9.30	2.835

Minimum daily, 15 ft³/s (0.42 m³/s) Oct. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	17	118	277	172	283	1120	227	91	57	43	23
2	16	16	102	272	162	341	867	214	88	57	54	23
3	16	16	88	237	155	296	1090	203	86	58	53	26
4	16	16	77	991	148	255	970	195	83	57	51	31
5	16	16	69	2220	140	228	826	187	82	55	46	28
6	16	18	62	1010	131	208	733	179	80	55	38	28
7	17	17	56	722	124	201	649	171	79	53	37	29
8	17	16	51	560	119	186	580	166	78	51	36	29
9	15	16	49	458	113	175	531	161	76	50	35	27
10	16	16	51	395	110	180	1110	156	75	48	35	25
11	18	16	44	339	102	186	2780	151	74	47	35	24
12	17	41	44	289	96	174	1820	145	72	46	34	24
13	17	652	43	250	111	163	1340	140	71	45	35	25
14	17	535	39	220	122	189	1100	135	70	45	35	26
15	17	222	37	196	276	171	929	132	68	44	34	28
16	17	211	35	173	650	227	799	128	66	44	35	30
17	17	380	33	159	443	323	697	124	66	43	48	29
18	18	217	31	148	364	395	611	121	65	41	44	27
19	18	151	31	161	310	381	548	118	65	41	42	26
20	18	111	227	274	274	358	497	116	64	41	42	25
21	17	87	174	254	249	339	448	114	63	40	36	23
22	17	75	130	209	228	319	412	111	62	39	27	23
23	17	62	107	194	208	302	379	108	60	38	26	24
24	17	91	93	190	192	286	350	105	60	38	26	40
25	17	67	83	192	178	271	326	104	59	37	26	47
26	19	73	75	264	168	265	305	103	58	36	26	37
27	20	210	71	247	159	247	285	101	56	35	26	29
28	124	227	64	257	151	277	266	98	55	36	26	27
29	30	174	213	226	---	367	251	96	61	44	26	25
30	21	142	356	206	---	391	239	94	60	44	24	25
31	18	---	263	187	---	1140	---	93	---	39	23	---
TOTAL	652	3908	2916	11777	5655	9124	22858	4296	2093	1404	1104	833
MEAN	21.0	130	94.1	380	202	294	762	139	69.8	45.3	35.6	27.8
MAX	124	652	356	2220	650	1140	2780	227	91	58	54	47
MIN	15	16	31	148	96	163	239	93	55	35	23	23
AC-FT	1290	7750	5780	23360	11220	18100	45340	8520	4150	2780	2190	1650
CAL YR 1981	TOTAL	28986	MEAN	79.4	MAX	997	MIN	15	AC-FT	57490		
WTR YR 1982	TOTAL	66620	MEAN	183	MAX	2780	MIN	15	AC-FT	132100		

11143200 CARMEL RIVER AT ROBLES DEL RIO, CA

LOCATION.--Lat 36°28'28", long 121°43'37", in Los Laureles Grant, Monterey County, Hydrologic Unit 18060012, on right bank 150 ft (45.72 m) upstream 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, prior to June 1981 at site 150 ft (45.72 m) downstream on downstream side of county road bridge.

DRAINAGE AREA.--193 mi² (500 km²).

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 hm³) and San Clemente Reservoir 4 mi (6 km) upstream, capacity, 1,600 acre-ft (1.97 hm³). Diversion from San Clemente Reservoir for municipal supply amounted to 9,130 acre-ft (11.3 hm³) for the current year.

AVERAGE DISCHARGE (unadjusted).--25 years, 84.4 ft³/s (2.390 m³/s), 61,150 acre-ft/yr (75.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,100 ft³/s (201 m³/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 ft³/s (196 m³/s) by slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,250 ft³/s (149 m³/s) Jan. 5, gage height, 9.97 ft (3.039 m); minimum daily, 0.62 ft³/s (0.018 m³/s) Oct. 25, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	1.7	99	232	216	227	1560	202	79	19	2.9	1.3
2	5.2	1.2	87	285	206	294	1070	205	78	18	2.5	1.4
3	5.6	1.1	77	232	198	287	1140	191	77	16	2.4	1.4
4	5.6	1.1	72	876	189	244	1010	180	75	15	2.2	1.4
5	5.8	1.1	68	3010	180	219	850	175	73	16	2.0	1.3
6	6.6	1.1	59	1110	172	199	798	162	70	16	1.9	1.5
7	8.2	1.0	54	702	166	185	692	154	68	11	1.6	1.7
8	7.5	.97	51	526	158	174	645	149	66	7.6	1.7	1.6
9	6.8	.91	47	423	149	161	542	147	64	5.6	1.9	1.9
10	6.2	.91	46	352	146	167	860	143	61	6.6	1.9	2.1
11	5.9	.91	45	304	139	164	3430	138	60	18	1.9	1.8
12	5.2	1.9	41	267	132	152	2050	133	58	17	2.0	1.4
13	4.3	.47	41	236	135	143	1430	127	56	17	2.0	1.6
14	3.6	184	42	216	145	151	1170	123	56	16	2.0	1.9
15	2.7	107	41	199	210	160	981	119	53	16	2.0	2.0
16	1.7	196	36	185	549	185	858	114	49	15	2.1	2.1
17	1.2	291	35	172	398	278	745	110	46	15	2.1	1.9
18	1.0	212	34	165	316	336	652	109	46	15	2.1	1.9
19	.86	147	33	167	275	344	590	106	46	14	2.2	1.6
20	.80	109	69	293	251	308	520	103	46	13	2.2	1.7
21	.77	87	127	385	232	290	469	101	45	12	1.8	7.0
22	.75	78	105	278	220	275	439	98	42	10	1.5	1.4
23	.69	69	91	237	212	267	389	95	40	8.5	1.6	1.4
24	.64	70	81	229	203	261	338	91	40	7.9	1.8	3.9
25	.62	67	75	230	196	255	323	89	36	7.5	1.8	3.7
26	.62	67	69	261	192	251	305	87	23	7.1	1.7	3.4
27	.73	112	72	279	188	249	277	87	24	7.1	1.5	2.5
28	3.5	160	65	286	184	268	259	86	19	6.7	1.3	2.1
29	2.7	132	96	268	---	393	242	83	19	5.4	1.3	2.0
30	14	113	320	245	---	399	226	82	19	4.3	1.2	2.0
31	4.7	---	223	229	---	1380	---	79	---	3.5	1.3	---
TOTAL	119.18	2261.90	2401	12879	5957	8666	24860	3868	1534	366.8	58.4	62.9
MEAN	3.84	75.4	77.5	415	213	280	829	125	51.1	11.8	1.88	2.10
MAX	14	291	320	3010	549	1380	3430	205	79	19	2.9	7.0
MIN	.62	.91	33	165	132	143	226	79	19	3.5	1.2	1.3
AC-FT	236	4490	4760	25550	11820	17190	49310	7670	3040	728	116	125

CAL YR 1981 TOTAL 22628.52 MEAN 62.0 MAX 1340 MIN .33 AC-FT 44880
WTR YR 1982 TOTAL 63034.18 MEAN 173 MAX 3430 MIN .62 AC-FT 125000

CARMEL RIVER BASIN

11143250 CARMEL RIVER NEAR CARMEL, CA

LOCATION.--Lat 36°32'20", long 121°52'25", in Canada de la Segunda Grant, Monterey County, Hydrologic Unit 18060012, on right bank 0.3 mi (0.5 km) downstream from Potrero Canyon, and 3 mi (5 km) east of Carmel.

DRAINAGE AREA.--246 mi² (637 km²).

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. Flow regulated by Los Padres Reservoir, capacity, 3,000 acre-ft (3.70 hm³) and San Clemente Reservoir, capacity, 1,600 acre-ft (1.97 hm³). Diversion from San Clemente Reservoir for municipal supply amounted to 9,130 acre-ft (11.3 hm³) for the current year.

AVERAGE DISCHARGE (unadjusted).--20 years, 106 ft³/s (3.002 m³/s), 76,800 acre-ft/yr (94.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,620 ft³/s (244 m³/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, 5,670 ft³/s (161 m³/s) Jan. 5, gage height, 14.07 ft (4.289 m); no flow many days during October and November.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	88	293	276	236	1960	346	82	6.5	1.3	.30
2		0	75	440	265	319	1250	335	80	6.3	1.4	.25
3		0	63	332	248	322	1310	323	78	5.4	1.3	.24
4		0	53	830	239	278	1200	301	72	4.9	1.1	.22
5		0	54	3390	218	248	1010	288	65	4.7	1.1	.25
6		0	47	1080	210	208	955	270	61	4.6	1.1	.36
7		0	39	704	198	194	841	255	62	4.5	1.1	.46
8		0	37	562	187	182	771	241	53	4.2	.87	.36
9		0	35	441	176	181	702	233	47	3.8	.73	.23
10		0	31	378	181	202	945	219	47	3.9	.72	.34
11		0	32	316	164	223	3770	220	43	4.4	.67	.33
12		0	30	299	154	211	2070	205	39	4.3	.56	.27
13		0	28	261	154	185	1420	195	37	4.3	.48	.27
14		49	27	237	177	207	1240	184	35	4.2	.41	.25
15		8.2	29	208	248	221	1090	170	33	4.2	.43	.39
16		102	25	195	748	278	1020	158	30	4.1	.39	.44
17		182	22	181	605	424	943	145	27	4.1	.54	.40
18		202	21	170	481	522	871	140	26	4.0	.68	.31
19		119	20	174	410	558	807	128	27	3.9	.55	.23
20		71	29	364	366	483	758	122	28	3.8	.35	.22
21		45	108	610	332	439	705	118	23	3.5	.31	.23
22		29	99	389	303	406	657	123	22	2.8	.34	.19
23		25	83	308	281	371	611	116	21	2.1	.39	.29
24		26	73	283	257	355	566	106	20	2.3	.32	.76
25		32	66	278	241	361	524	103	16	1.9	.29	.72
26		32	61	366	213	350	496	104	10	1.7	.28	.37
27		72	61	371	198	349	459	96	10	1.6	.30	.34
28		163	60	392	197	365	427	91	7.3	1.4	.44	.42
29		138	72	374	---	588	409	83	7.1	1.2	.45	.51
30		105	395	329	---	625	384	86	7.1	1.2	.44	.48
31		---	296	301	---	1720	---	80	---	1.2	.36	---
TOTAL	0	1400.2	2159	14856	7727	11611	30171	5584	1115.5	111.0	19.70	10.43
MEAN	0	46.7	69.6	479	276	375	1006	180	37.2	3.58	.64	.35
MAX	0	202	395	3390	748	1720	3770	346	82	6.5	1.4	.76
MIN	0	0	20	170	154	181	384	80	7.1	1.2	.28	.19
AC-FT	0	2780	4280	29470	15330	23030	59840	11080	2210	220	39	21

CAL YR 1981 TOTAL 23010.10 MEAN 63.0 MAX 1340 MIN 0 AC-FT 45640
WTR YR 1982 TOTAL 74764.83 MEAN 205 MAX 3770 MIN 0 AC-FT 148300

LOCATION.--Lat 35°17'55", long 120°24'10", in NE¼ sec.19, T.30 S., R.15 E., San Luis Obispo County, Hydrologic Unit 18060005, 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.

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) National Geodetic Vertical Datum of 1929. 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.--40 years, 18.2 ft³/s (0.515 m³/s), 13,190 acre-ft/yr (16.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,600 ft³/s (527 m³/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 ft³/s (201 m³/s) on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s (8.50 m³/s) and maximum (*) from rating curve extended above 620 ft³/s (17.6 m³/s) on basis of slope-area measurement of peak flow:

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Mar. 17	0700	634	18.0	12.83	3.911	Apr. 1	0115	2,820	79.9	15.88	4.840
Mar. 29	2015	909	25.7	13.35	4.069	Apr. 11	1100	*5,600	159	18.18	5.541

Minimum daily, 0.56 ft³/s (0.016 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.56	1.0	2.1	3.3	2.6	5.5	1110	22	2.5	1.3	.85	1.2
2	.61	1.0	1.9	2.5	2.3	54	275	20	2.4	1.2	.88	1.1
3	.67	1.0	1.9	1.9	2.2	63	114	18	2.4	1.2	.91	1.0
4	.71	1.0	1.9	3.8	2.0	41	62	17	3.4	1.2	.91	1.0
5	.69	1.0	1.9	24	2.0	32	45	14	3.2	1.1	.87	1.0
6	.64	1.1	1.7	8.5	1.9	26	34	13	2.9	1.1	.85	1.1
7	.66	1.1	1.7	5.6	2.0	22	25	11	2.7	1.1	.82	.96
8	.67	1.1	1.8	4.4	2.2	19	19	8.6	2.7	1.2	.79	.99
9	.65	1.0	1.9	3.6	2.2	16	16	8.2	2.9	1.2	.80	1.0
10	.66	1.1	1.9	3.2	4.6	14	15	7.8	3.0	1.1	.80	1.0
11	.75	1.1	1.8	3.2	7.6	15	1900	8.6	2.7	1.2	.85	.96
12	.75	1.1	1.6	2.7	19	16	551	7.7	2.7	1.2	.91	.89
13	.84	1.4	1.5	2.7	16	16	233	6.9	2.6	1.2	1.0	.90
14	.90	5.4	1.5	1.9	13	40	159	6.8	2.8	1.1	1.1	1.0
15	.87	1.5	1.5	1.8	10	76	115	6.0	2.2	1.1	.99	1.1
16	.85	1.3	1.5	1.7	9.2	129	91	5.4	1.9	1.1	.98	1.3
17	.85	1.3	1.6	1.6	13	530	80	5.2	1.8	1.1	.93	1.3
18	.85	1.3	1.7	1.5	16	447	73	4.7	1.9	1.0	.91	1.2
19	.84	1.3	1.6	3.1	13	220	66	4.7	2.0	1.0	.89	1.1
20	.82	1.4	1.7	31	11	138	60	4.7	2.1	.96	.88	1.1
21	.80	1.4	1.6	23	9.3	96	53	4.7	1.8	.99	.86	1.0
22	.77	1.4	1.5	12	7.6	70	48	4.7	1.7	.97	.89	.95
23	.78	1.4	1.5	7.6	6.3	51	42	4.5	1.6	.97	.83	1.0
24	.78	1.4	1.5	6.3	5.5	39	37	3.6	1.6	.96	.85	1.2
25	.84	1.4	1.5	4.9	5.2	27	34	3.2	1.5	.94	.78	1.4
26	.88	1.5	1.5	4.2	4.5	34	35	3.7	1.4	.93	.81	1.6
27	.92	6.6	1.5	3.4	3.6	25	34	3.8	1.2	.91	.85	1.2
28	1.6	3.7	1.6	3.3	3.2	17	30	3.8	1.4	.90	.84	1.1
29	1.4	2.5	1.7	2.7	---	213	27	3.3	1.5	.87	1.0	1.1
30	1.1	2.2	2.6	2.3	---	160	24	3.2	1.4	.85	1.2	1.1
31	1.0	---	1.9	2.4	---	311	---	3.0	---	.80	1.3	---
TOTAL	25.71	51.0	53.1	184.1	197.0	2962.5	5407	241.8	65.9	32.75	28.13	32.85
MEAN	.83	1.70	1.71	5.94	7.04	95.6	180	7.80	2.20	1.06	.91	1.10
MAX	1.6	6.6	2.6	31	19	530	1900	22	3.4	1.3	1.3	1.6
MIN	.56	1.0	1.5	1.5	1.9	5.5	15	3.0	1.2	.80	.78	.89
AC-FT	51	101	105	365	391	5880	10720	480	131	65	56	65
CAL YR 1981	TOTAL	2813.49	MEAN	7.71	MAX	382	MIN	.53	AC-FT	5580		
WTR YR 1982	TOTAL	9281.84	MEAN	25.4	MAX	1900	MIN	.56	AC-FT	18410		

SALINAS RIVER BASIN

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, Hydrologic Unit 18060005, on left bank 300 ft (91 m) upstream from mouth, and 3 mi (5 km) northwest of Pozo.

DRAINAGE AREA.--9.56 mi² (24.76 km²).

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) National Geodetic Vertical Datum of 1929. 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.--19 years (water years, 1962-69, 1972-82), 1.02 ft³/s (0.029 m³/s), 739 acre-ft/yr (911,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,400 ft³/s (68.0 m³/s) Feb. 24, 1969, gage height, 8.3 ft (2.53 m) from floodmarks, from rating curve extended above 30 ft³/s (0.850 m³/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, 19 ft³/s (0.54 m³/s) Apr. 11 (1045 hrs), gage height, 4.10 ft (1.250 m), no other peak above base of 15 ft³/s (0.40 m³/s); minimum daily, 0.12 ft³/s (0.003 m³/s) Apr. 16-18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.38	.40	.60	.69	.69	1.1	8.3	.21	.60	.53	.26	.41
2	.51	.31	.60	.69	.69	1.2	1.3	.22	.60	.52	.26	.39
3	.52	.40	.60	.87	.62	1.2	.78	.26	.65	.52	.26	.30
4	.52	.53	.60	1.1	.44	1.0	.65	.27	.69	.52	.29	.31
5	.52	.52	.60	1.5	.48	1.0	.60	.41	.69	.52	.31	.33
6	.56	.55	.64	1.1	.62	1.0	.60	.40	.69	.52	.31	.30
7	.55	.60	.67	.67	.69	1.2	.60	.44	.75	.47	.29	.29
8	.49	.65	.67	.60	.69	1.5	.60	.44	.78	.44	.26	.34
9	.56	.60	.64	.73	.69	1.7	.60	.44	.78	.44	.26	.32
10	.60	.60	.69	.69	1.7	1.8	.70	.44	.67	.44	.25	.33
11	.59	.65	.69	.69	.88	1.9	11	.44	.60	.44	.21	.32
12	.57	.69	.74	.69	.78	1.9	2.8	.47	.60	.44	.21	.36
13	.60	2.4	.78	.69	.78	1.8	.58	.45	.62	.44	.21	.31
14	.67	.68	.83	.69	.78	3.2	.35	.38	.69	.49	.21	.31
15	.75	.26	.72	.69	.78	.61	.25	.38	.60	.45	.24	.35
16	.73	.29	.60	.69	.78	2.8	.12	.38	.59	.44	.26	.52
17	.66	.43	.60	.69	.76	2.8	.12	.38	.60	.49	.27	.42
18	.95	.55	.60	.67	.60	1.8	.12	.48	.60	.44	.26	.33
19	.77	.58	.60	.65	.60	1.1	.22	.52	.60	.42	.24	.33
20	.70	.60	.60	1.6	.65	.69	.39	.52	.58	.36	.19	.34
21	.66	.60	.60	1.1	.82	.60	.42	.52	.52	.33	.23	.33
22	.84	.60	.60	.75	.89	.66	.42	.52	.52	.38	.26	.31
23	.75	.60	.60	.44	.89	.75	.15	.52	.52	.38	.29	.35
24	.75	.60	.64	.44	.92	.78	.38	.52	.52	.35	.36	.55
25	.69	.60	.69	.49	.93	.76	.16	.52	.54	.26	.38	.44
26	.69	.60	.69	.52	1.0	.78	.16	.52	.52	.26	.27	.25
27	.73	2.6	.69	.52	1.1	2.4	.19	.52	.52	.26	.24	.26
28	2.8	.76	.69	.82	1.1	.90	.24	.57	.52	.29	.24	.31
29	.70	.69	.69	.85	---	1.6	.24	.60	.52	.31	.26	.31
30	.16	.63	.69	.76	---	.79	.21	.54	.52	.28	.29	.21
31	.29	---	.69	.69	---	3.6	---	.56	---	.26	.35	---
TOTAL	21.26	20.57	20.34	23.77	22.35	44.92	33.25	13.84	18.20	12.69	8.22	10.23
MEAN	.69	.69	.66	.77	.80	1.45	1.11	.45	.61	.41	.27	.34
MAX	2.8	2.6	.83	1.6	1.7	3.6	11	.60	.78	.53	.38	.55
MIN	.16	.26	.60	.44	.44	.60	.12	.21	.52	.26	.19	.21
AC-FT	42	41	40	47	44	89	66	27	36	25	16	20

CAL YR 1981 TOTAL 414.10 MEAN 1.13 MAX 30 MIN .16 AC-FT 821
WTR YR 1982 TOTAL 249.64 MEAN .68 MAX 11 MIN .12 AC-FT 495

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, Hydrologic Unit 18060005, 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 mi² (15.31 km²).

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

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

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

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

AVERAGE DISCHARGE.--13 years, 2.17 ft³/s (0.061 m³/s), 1,570 acre-ft/yr (1.94 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,450 ft³/s (41.1 m³/s) Feb. 21, 1980, gage height, 6.12 ft (1.865 m), from rating curve extended above 67 ft³/s (1.90 m³/s) on basis of slope-area measurements at gage heights 4.58 ft (1.396 m) and 5.88 ft (1.792 m); no flow for long periods in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft³/s (2.8 m³/s) and maximum (*) from rating curve extended as explained above:

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Jan. 5	0200	107	3.03	2.10	0.640	Mar. 31	2015	514	14.6	3.71	1.131
Mar. 16	1945	115	3.26	2.15	.655	Apr. 11	0745	*789	22.3	4.45	1.356

Minimum, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	2.3	.41	1.1	80	1.2	.19	.04		
2	0	0	0	.77	.36	22	23	1.2	.17	.03		
3	0	0	0	.22	.33	6.7	13	1.1	.16	.03		
4	0	0	0	2.8	.30	3.0	9.7	.95	.14	.03		
5	0	0	0	28	.24	1.8	7.4	.85	.14	.03		
6	0	0	0	2.0	.23	1.3	5.8	.80	.12	.02		
7	0	0	0	.64	.23	1.0	4.6	.75	.12	.02		
8	0	0	0	.36	.22	.82	3.9	.74	.12	.02		
9	0	0	0	.26	.19	.72	3.3	.74	.11	.02		
10	0	0	0	.21	1.1	.65	17	.68	.11	.02		
11	0	0	0	.17	.77	.78	215	.65	.09	.02		
12	0	0	0	.14	.42	.66	34	.57	.09	.02		
13	0	0	0	.11	.36	.54	17	.55	.09	.02		
14	0	.02	0	.10	.33	8.6	12	.52	.09	.02		
15	0	.01	0	.10	.29	3.6	9.5	.48	.08	.01		
16	0	.01	0	.10	.92	28	7.6	.44	.07	.01		
17	0	0	0	.10	.62	62	6.2	.39	.08	.01		
18	0	0	0	.13	.44	30	5.1	.37	.08	.01		
19	0	0	0	.61	.36	12	4.3	.34	.07	.01		
20	0	0	0	27	.31	6.8	3.7	.31	.07	.01		
21	0	0	0	14	.28	4.4	3.1	.29	.06	.01		
22	0	0	0	3.7	.26	3.0	2.7	.28	.05	.01		
23	0	0	0	1.6	.21	2.3	2.4	.25	.05	.01		
24	0	0	0	1.0	.21	1.7	2.2	.23	.05	.01		
25	0	0	0	.71	.19	1.6	2.0	.21	.05	.01		
26	0	0	0	.72	.18	2.3	1.8	.22	.04	.01		
27	0	.03	0	.71	.16	1.5	1.6	.27	.04	.01		
28	.01	.01	0	1.0	.16	3.5	1.5	.26	.04	.01		
29	.01	0	0	.78	---	22	1.4	.23	.04	0		
30	0	0	.39	.56	---	13	1.3	.22	.04	0		
31	0	---	.03	.47	---	120	---	.21	---	0		---
TOTAL	.02	.08	.42	91.37	10.08	367.37	502.1	16.30	2.65	.48	0	0
MEAN	.0006	.003	.014	2.95	.36	11.9	16.7	.53	.088	.016	0	0
MAX	.01	.03	.39	28	1.1	120	215	1.2	.19	.04	0	0
MIN	0	0	0	.10	.16	.54	1.3	.21	.04	0	0	0
AC-FT	.04	.2	.8	181	20	729	996	32	5.3	1.0	0	0
CAL YR 1981	TOTAL 407.38	MEAN 1.12	MAX 82	MIN 0	AC-FT 808							
WTR YR 1982	TOTAL 990.87	MEAN 2.71	MAX 215	MIN 0	AC-FT 1970							

SALINAS RIVER BASIN

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, Hydrologic Unit 18060005 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 mi² (290 km²).

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 National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Mar. 9, 1942, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by concrete-arch dam, outlet closed Dec. 6, 1941. Usable capacity, 23,000 acre-ft (28.4 hm³) between elevations 1,220.3 ft (371.95 m), bottom of outlet pipe and 1,300.7 ft (396.45 m) spillway crest, NGVD. Additional storage of 400 acre-ft (493,000 m³) 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 hm³) Jan. 25, 1969, elevation, 1,313.30 ft (400.294 m); minimum, 1,730 acre-ft (2.13 hm³) Nov. 6-10, 1943.

EXTREMES FOR CURRENT YEAR.--Maximum usable contents, 26,020 acre-ft (32.1 hm³) Apr. 12, elevation, 1,304.14 ft (397.502 m); minimum, 15,670 acre-ft (19.3 hm³) Jan. 19; minimum elevation, 1,287.88 ft (392.546 m) Jan. 19.

Capacity table (elevation, in feet NGVD, and contents, in acre-feet)

1,220.3	0	1,245	2,000	1,270	7,700	1,295	19,300
1,225	198	1,250	2,800	1,275	9,500	1,300	22,400
1,230	470	1,255	3,800	1,280	11,500	1,310	30,700
1,235	840	1,260	4,900	1,285	13,800	1,320	41,000
1,240	1,350	1,265	6,200	1,290	16,400		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16600	15900	15500	15100	15100	15100	23200	23000	22500	21600	20500	19200
2	16600	15900	15500	15100	15100	15200	24100	23000	22500	21600	20400	19200
3	16600	15800	15500	15100	15100	15300	23800	23000	22500	21600	20400	19100
4	16500	15800	15500	15000	15100	15400	23400	23000	22500	21500	20300	19100
5	16500	15800	15500	15100	15100	15400	23000	23000	22400	21500	20300	19000
6	16500	15800	15500	15100	15100	15500	22800	23000	22400	21500	20200	19000
7	16500	15800	15500	15100	15100	15500	22900	23000	22400	21400	20200	19000
8	16400	15700	15400	15000	15100	15500	23000	23000	22400	21400	20200	18900
9	16400	15700	15400	15000	15100	15500	23000	22900	22300	21400	20100	18900
10	16400	15700	15400	15000	15100	15500	22900	22900	22300	21300	20100	18900
11	16300	15700	15400	15000	15100	15500	23900	22900	22300	21300	20000	18800
12	16300	15700	15400	15000	15100	15500	25100	22900	22200	21200	20000	18800
13	16300	15700	15400	15000	15100	15600	24100	22900	22200	21200	19900	18800
14	16300	15700	15300	15000	15100	15600	23600	22900	22200	21200	19900	18700
15	16200	15700	15300	14900	15100	15700	23400	22900	22100	21200	19800	18700
16	16200	15700	15300	14900	15200	15800	23200	22900	22100	21100	19800	18700
17	16200	15700	15300	14900	15200	16400	23100	22900	22100	21100	19800	18600
18	16100	15600	15300	14900	15200	17500	23000	22800	22000	21000	19700	18600
19	16100	15600	15300	14900	15200	18300	23000	22800	22000	21000	19700	18600
20	16100	15600	15300	14900	15200	18700	23000	22800	22000	21000	19600	18500
21	16100	15600	15300	15100	15200	18900	23000	22800	21900	20900	19600	18500
22	16000	15600	15300	15200	15200	19100	23000	22700	21900	20900	19600	18500
23	16000	15600	15200	15200	15200	19200	23000	22700	21900	20900	19500	18500
24	16000	15600	15200	15200	15200	19300	23000	22700	21800	20800	19500	18400
25	16000	15600	15200	15200	15100	19300	23000	22700	21800	20800	19400	18400
26	15900	15500	15200	15200	15100	19400	23000	22700	21800	20700	19400	18500
27	15900	15600	15100	15100	15100	19400	23000	22700	21700	20700	19400	18500
28	15900	15600	15100	15100	15100	19500	23000	22600	21700	20700	19300	18500
29	15900	15600	15100	15100	---	19600	23000	22600	21700	20600	19300	18400
30	15900	15600	15100	15100	---	20300	23000	22600	21600	20600	19300	18400
31	15900	---	15100	15100	---	20600	---	22600	---	20500	19200	---
MAX	16600	15900	15500	15200	15200	20600	25100	23000	22500	21600	20500	19200
MIN	15900	15500	15100	14900	15100	15100	22800	22600	21600	20500	19200	18400
a	1289.03	1288.42	1287.54	1287.65	1287.62	1297.15	1300.72	1300.10	1298.72	1296.96	1294.88	1293.54
b	-800	-300	-500	0	0	+5500	+2400	-400	-1000	-1100	-1300	-800
c	651	445	437	405	399	122	403	613	640	718	733	510

CAL YR 1981 b -1500 c 6620

WTR YR 1982 b +2500 c 6080

a Elevation, in feet NGVD, at end of month.

b Change in contents, in acre-feet.

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

LOCATION.--Lat 35°20'07", long 120°30'10", in NW¼NW¼ sec.8, T.30 S., R.14 E., San Luis Obispo County, Hydrologic Unit 18060005, 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.

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

AVERAGE DISCHARGE.--9 years, 24.6 ft³/s (0.697 m³/s), 17,820 acre-ft/yr (22.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,160 ft³/s (203 m³/s) Feb. 10, 1978, gage height, 10.24 ft (3.121 m); no flow for many days in 1975-77 and several days in 1979, 80, 81.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,460 ft³/s (69.7 m³/s) Apr. 11, gage height, 6.97 ft (2.124 m); minimum, no flow for several days.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	.76	.70	7.8	.01	.01	265	4.3	.05	3.5	5.1	1.8
2	1.6	.76	.70	7.8	.01	.04	651	.79	.06	2.8	5.0	1.8
3	1.6	.76	.70	7.8	.07	.01	558	.13	.01	2.0	4.9	2.0
4	1.6	.76	1.3	7.8	.08	.10	390	.07	.01	2.0	5.0	2.0
5	1.6	.76	2.3	36	.02	.03	262	.07	0	2.0	5.2	1.9
6	1.8	.76	2.4	27	.01	0	51	.57	0	2.0	5.3	1.8
7	1.6	.76	2.4	4.5	.01	0	.06	.12	0	2.0	5.3	1.8
8	1.4	.71	2.4	4.4	.01	0	45	.07	3.1	2.0	5.0	1.8
9	.88	.70	2.4	4.4	.01	0	82	.07	4.9	2.0	5.3	1.8
10	.88	.70	2.4	4.4	.06	.11	66	.05	4.9	2.0	5.1	1.8
11	.88	.70	2.3	4.4	.04	.04	1330	.05	4.9	2.0	5.0	1.8
12	.88	.70	2.3	4.4	.02	.01	1580	.23	4.9	2.0	4.8	1.8
13	.88	.72	2.3	4.4	.02	0	723	.07	4.9	2.0	4.8	1.8
14	.88	.80	2.3	4.4	.02	.02	391	.04	4.9	2.0	4.8	1.8
15	.88	.76	2.3	4.4	.02	.11	252	.03	4.9	2.0	4.8	1.8
16	.88	.76	2.3	4.4	.04	.15	165	.02	5.1	2.0	4.8	1.8
17	.90	.92	2.4	4.4	.02	.20	128	.02	4.9	2.0	4.8	1.8
18	.94	.71	2.7	4.4	.01	.09	60	.01	4.9	2.0	5.4	1.8
19	.94	.70	2.5	4.5	.01	.03	45	.01	4.9	2.0	4.9	1.8
20	.94	.70	2.5	4.7	0	.02	43	.01	4.9	2.0	2.8	1.8
21	1.0	.70	2.5	4.6	0	.01	41	.01	4.9	2.0	1.7	1.8
22	.69	.70	2.5	4.5	0	.01	30	.01	4.7	1.9	1.7	1.8
23	.70	.70	5.6	7.4	.01	.12	9.5	.01	4.8	2.0	1.7	1.8
24	.70	.70	8.0	9.5	.01	.04	9.5	.01	3.5	2.0	1.7	1.8
25	.70	.70	8.0	9.5	.01	.02	9.5	0	3.5	2.0	1.9	1.9
26	.70	.73	8.0	13	0	.02	9.5	0	3.5	1.9	1.7	1.9
27	.92	.80	8.0	.11	0	.01	9.5	0	3.5	1.9	1.8	1.9
28	.81	.76	8.0	.06	0	.02	9.5	.01	3.5	4.0	1.8	1.9
29	.70	.76	8.0	.02	---	.12	9.5	.01	3.5	5.8	1.8	1.9
30	.70	.75	8.1	.01	---	.23	9.5	.01	3.5	5.3	1.8	1.9
31	.73	---	8.2	0	---	.43	---	0	---	5.3	1.8	---
TOTAL	31.91	22.20	116.50	205.00	.52	2.00	7234.06	6.80	101.13	76.4	117.5	55.1
MEAN	1.03	.74	3.76	6.61	.019	.065	241	.22	3.37	2.46	3.79	1.84
MAX	1.8	.92	8.2	36	.08	.43	1580	4.3	5.1	5.8	5.4	2.0
MIN	.69	.70	.70	0	0	0	.06	0	0	1.9	1.7	1.8
AC-FT	63	44	231	407	1.0	4.0	14350	13	201	152	233	109
CAL YR 1981	TOTAL	771.78	MEAN	2.11	MAX	8.5	MIN	0	AC-FT	1530		
WTR YR 1982	TOTAL	7969.12	MEAN	21.8	MAX	1580	MIN	0	AC-FT	15810		

SALINAS RIVER BASIN

11147070 SANTA RITA CREEK NEAR TEMPLETON, CA

LOCATION.--Lat 35°31'26", long 120°45'54", in Asuncion Grant, San Luis Obispo County, Hydrologic Unit 18060005, on left bank 1.6 mi (2.6 km) upstream from mouth, and 4 mi (6 km) west of Templeton.

DRAINAGE AREA.--18.2 mi² (47.1 km²).

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

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

REMARKS.--Records good except those for periods of no gage height record, Apr. 15 to May 21, May 27 to July 31, which are poor. Some regulation and pumping above station.

AVERAGE DISCHARGE.--21 years, 14.0 ft³/s (0.396 m³/s), 10,140 acre-ft/yr (12.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,060 ft³/s (172 m³/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 ft³/s (36.8 m³/s) on basis of slope-area measurement of maximum flow; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft³/s (17 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 5	0530	860 24.4	6.50 1.981
Mar. 31	2200	764 21.6	6.32 1.926
Apr. 11	0800	*2,010 56.9	8.06 2.457

Minimum, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	6.1	.62	74	12	57	303	16	2.3	.70		
2	0	6.7	.45	30	11	239	130	14	2.2	.65		
3	0	7.0	.31	17	10	83	121	12	2.1	.59		
4	0	7.4	.23	54	9.3	50	100	11	2.0	.55		
5	0	2.2	.19	365	7.9	36	72	10	1.9	.49		
6	0	.26	.16	66	6.9	29	58	9.6	1.8	.45		
7	0	.08	.16	32	6.6	25	47	8.9	1.7	.38		
8	0	.04	.13	21	6.1	22	39	8.3	1.7	.33		
9	0	.03	.11	16	5.6	19	34	7.9	1.6	.28		
10	0	.02	.11	13	8.7	18	246	7.4	1.5	.26		
11	0	.02	.11	11	8.5	18	1060	6.9	1.5	.23		
12	0	.02	.11	9.2	5.8	17	284	6.5	1.4	.19		
13	0	.22	.10	7.4	5.1	14	149	6.0	1.3	.16		
14	0	5.7	.09	6.4	5.8	52	104	5.7	1.2	.14		
15	0	.92	.08	5.7	13	36	84	5.1	1.2	.12		
16	0	.42	.08	4.8	121	105	74	4.7	1.1	.09		
17	0	1.6	.07	4.5	46	207	65	4.4	1.0	.06		
18	0	.94	.07	4.0	28	139	58	4.1	.97	.07		
19	0	.41	.07	3.9	22	83	52	3.7	.96	.08		
20	0	.24	5.9	53	18	59	47	3.4	.95	.06		
21	0	.15	8.5	59	16	46	43	3.2	.91	.05		
22	0	.11	2.2	32	14	37	39	3.0	.86	.04		
23	0	.10	1.1	21	12	31	36	2.6	.79	.04		
24	0	.08	.74	17	11	27	33	2.6	.75	.03		
25	0	.07	.56	14	9.9	24	31	2.7	.71	.02		
26	0	.08	.48	25	9.2	26	28	2.7	.68	.02		
27	0	1.5	.43	25	8.7	21	26	2.5	.65	.02		
28	0	4.1	.41	25	8.0	38	24	2.4	.59	.01		
29	.03	2.2	29	19	---	64	21	2.3	.56	.01		
30	3.6	1.0	105	16	---	59	18	2.3	.63	.01		
31	5.1	---	21	14	---	261	---	2.3	---	.01		
TOTAL	8.73	49.71	178.57	1064.9	446.1	1942	3426	184.2	37.51	6.14	0	0
MEAN	.28	1.66	5.76	34.4	15.9	62.6	114	5.94	1.25	.20	0	0
MAX	5.1	7.4	105	365	121	261	1060	16	2.3	.70	0	0
MIN	0	.02	.07	3.9	5.1	14	18	2.3	.56	.01	0	0
AC-FT	17	99	354	2110	885	3850	6800	365	74	12	0	0

CAL YR 1981 TOTAL 2194.63 MEAN 6.01 MAX 469 MIN 0 AC-FT 4350
WTR YR 1982 TOTAL 7343.86 MEAN 20.1 MAX 1060 MIN 0 AC-FT 14570

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, Hydrologic Unit 18060005, on left bank at upstream side of 13th Street Bridge in Paso Robles, 3.5 mi (5.6 km) upstream from Huerfuer Creek.

DRAINAGE AREA.--390 mi² (1,010 km²).

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) National Geodetic Vertical Datum of 1929. Prior to June 14, 1951, nonrecording gage, and June 14, 1951, to Sept. 30, 1965, water-stage recorder at same site and datum.

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

AVERAGE DISCHARGE.--39 years, 91.8 ft³/s (2,600 m³/s), 66,510 acre-ft/yr (82.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,500 ft³/s (524 m³/s) Feb. 16, 1980, gage height, 15.99 ft (4.874 m), from rating curve extended above 6,200 ft³/s (176 m³/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 ft³/s (793 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,100 ft³/s (31 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 5	1115	1,820 51.5	8.23 2.509	Apr. 1	0545	5,220 148	10.67 3.252
Mar. 2	0900	1,120 31.7	7.53 2.295	Apr. 11	1200	*10,500 297	13.23 4.033
Mar. 17	2130	1,160 32.9	7.58 2.310				

Minimum, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	53	50	3420	146	4.2			
2				0	49	724	1750	144	3.0			
3				0	51	485	1400	140	2.3			
4				0	44	271	1240	101	1.8			
5				784	76	204	938	84	1.6			
6				272	69	174	800	76	1.4			
7				104	62	133	619	69	.80			
8				69	56	119	516	62	.47			
9				48	51	96	463	56	.30			
10				36	46	80	745	51	.24			
11				33	42	76	6320	46	.11			
12				29	39	81	4100	42	.08			
13				24	35	66	2110	39	.04			
14				21	32	99	1300	35	.03			
15				18	30	179	920	32	.02			
16				17	27	276	751	30	.01			
17				17	243	982	624	27	0			
18				16	120	954	502	25	.02			
19				19	90	657	363	22	.10			
20				84	75	450	270	21	.50			
21				269	72	361	223	19	1.3			
22				148	60	308	262	17	1.2			
23				100	53	242	266	15	.56			
24				76	46	224	234	14	.38			
25				67	43	168	216	10	.09			
26				74	41	209	224	9.6	0			
27				100	40	199	218	8.2	0			
28				92	41	194	192	7.6	0			
29				78	---	319	179	5.9	0			
30				67	---	622	148	4.9	0			
31				54	---	942	---	6.2	---			
TOTAL	0	0	0	2716	1686	9944	31313	1365.4	20.55	0	0	0
MEAN	0	0	0	87.6	60.2	321	1044	44.0	.69	0	0	0
MAX	0	0	0	784	243	982	6320	146	4.2	0	0	0
MIN	0	0	0	0	27	50	148	4.9	0	0	0	0
AC-FT	0	0	0	5390	3340	19720	62110	2710	41	0	0	0
CAL YR 1981 TOTAL	17248.12		MEAN 47.3	MAX 1730	MIN 0	AC-FT 34210						
WTR YR 1982 TOTAL	47044.95		MEAN 129	MAX 6320	MIN 0	AC-FT 93310						

SALINAS RIVER BASIN

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, Hydrologic Unit 18060004, 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 mi² (2,388 km²), 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) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

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

AVERAGE DISCHARGE.--28 years, 28.1 ft³/s (0.796 m³/s), 20,360 acre-ft/yr (25.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,500 ft³/s (920 m³/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.--Peak discharges above base of 200 ft³/s (5.66 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Apr. 1	2315	376	10.6	2.69	0.820
Apr. 12	0015	*1,570	44.5	3.78	1.152

Minimum, no flow for most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							23					
2							228					
3							80					
4							19					
5							9.0					
6							3.6					
7							2.3					
8							2.0					
9							.82					
10							1.2					
11							36					
12							541					
13							108					
14							40					
15							17					
16							11					
17							3.9					
18							2.3					
19							1.2					
20							1.0					
21							.71					
22							.65					
23							.50					
24							.50					
25							.25					
26							.14					
27							.04					
28							0					
29							0					
30							0					
31							---					
TOTAL	0	0	0	0	0	0	1133.11	0	0	0	0	0
MEAN	0	0	0	0	0	0	37.8	0	0	0	0	0
MAX	0	0	0	0	0	0	541	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	2250	0	0	0	0	0
CAL YR 1981	TOTAL	232.57	MEAN .64	MAX 52	MIN 0	AC-FT	461					
WTR YR 1982	TOTAL	1133.11	MEAN 3.10	MAX 541	MIN 0	AC-FT	2250					

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, Hydrologic Unit 18060005, on left bank just downstream from Sapaque Creek, 1.4 mi (2.3 km) south of Bryson.

DRAINAGE AREA.--162 mi² (420 km²), revised.

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.--11 years, 203 ft³/s (5.749 m³/s), 147,100 acre-ft/yr (181 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 57,000 ft³/s (1,610 m³/s) Jan. 16, 1978, gage height, 32.00 ft (9.754 m), from rating curve extended above 4,100 ft³/s (116 m³/s) on basis of slope-area measurement of maximum flow; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 10,000 ft³/s (283 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 5	0400	22,400 634	23.06 7.029
Apr. 11	Unknown	*28,400 804	24.77 7.550

Minimum, no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	143	491	193	287	1800	179	43	13	.05	
2		0	112	503	175	843	1620	172	41	12	.03	
3		0	92	407	160	515	1360	159	39	11	.02	
4		0	78	3170	145	378	1260	148	37	10	.01	
5		0	68	9130	128	314	860	140	35	9.2	.01	
6		0	60	1220	112	274	648	133	34	8.2	0	
7		0	54	662	101	247	517	125	33	7.1	0	
8		0	50	449	96	236	380	118	31	6.3	0	
9		0	45	344	91	211	340	115	30	5.4	0	
10		0	43	283	138	208	3500	112	28	4.8	0	
11		0	41	245	134	209	10000	107	27	4.2	0	
12		0	38	213	95	211	3200	96	25	3.5	0	
13		0	38	187	89	188	1400	89	24	3.0	0	
14		528	36	170	102	196	1000	83	23	2.5	0	
15		329	33	157	158	202	800	79	22	2.0	0	
16		180	32	144	1060	338	700	75	20	1.5	0	
17		478	30	133	659	899	627	70	18	1.1	0	
18		278	28	125	429	983	549	65	18	1.4	0	
19		143	28	123	340	734	492	64	18	1.5	0	
20		96	164	591	290	546	445	61	18	1.2	0	
21		72	298	786	256	442	400	58	17	.96	0	
22		59	175	446	230	381	362	56	16	.72	0	
23		50	131	330	209	332	328	54	15	.51	0	
24		46	106	260	191	298	299	51	14	.51	0	
25		48	91	230	177	273	275	47	13	.42	0	
26		44	80	420	167	266	256	46	13	.35	0	
27		381	75	480	158	245	239	45	12	.29	0	
28		618	64	360	149	261	220	44	11	.24	0	
29		406	110	300	---	273	204	44	10	.20	0	
30		199	1130	250	---	533	189	44	12	.16	0	
31		---	504	215	---	1220	---	43	---	.11	0	---
TOTAL	0	3955	3977	22824	6232	12543	34270	2722	697	113.37	.12	0
MEAN	0	132	128	736	223	405	1142	87.8	23.2	3.66	.004	0
MAX	0	618	1130	9130	1060	1220	10000	179	43	13	.05	0
MIN	0	0	28	123	89	188	189	43	10	.11	0	0
AC-FT	0	7840	7890	45270	12360	24880	67970	5400	1380	225	.2	0
CAL YR 1981	TOTAL	33395.60	MEAN	91.5	MAX	1950	MIN	0	AC-FT	66240		
WTR YR 1982	TOTAL	87333.49	MEAN	239	MAX	10000	MIN	0	AC-FT	173200		

SALINAS RIVER BASIN

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

WATER-QUALITY RECORDS

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

WATER TEMPERATURES: Water years 1972-74.

SEDIMENT RECORDS: Water years 1972 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1971 to September 1974.

SEDIMENT RECORDS: October 1971 to September 1974.

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW INSTAN- TANEOUS (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
JUN								
08...	1205	21.0	1	32	5	16	57	96
08...	1210	21.0	1	32	--	--	1	2
08...	1215	21.0	1	32	1	5	35	79
08...	1220	21.0	1	32	--	2	23	79
08...	1225	21.0	1	32	2	8	49	97

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
JUN							
08...	100	--	--	--	--	--	--
08...	4	5	8	21	55	86	100
08...	99	100	--	--	--	--	--
08...	100	--	--	--	--	--	--
08...	100	--	--	--	--	--	--

RESERVOIRS IN SALINAS RIVER BASIN, CA

11149300 LAKE NACIMIENTO (formerly published as Nacimiento Reservoir).--Lat 35°45'29", long 120°53'01", in NW¼ sec.15, T.25 S., R.10 E., San Luis Obispo County, Hydrologic Unit 18060005, 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 mi² (826 km²). PERIOD OF RECORD, February 1957 to current year. Monthend contents prior to October 1970, published in WSP 2129. Prior to October 1978, published as "Nacimiento Reservoir." GAGE, nonrecording gage read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (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 hm³); usable capacity, 340,000 acre-ft (419 hm³) 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 hm³). 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 hm³) Apr. 7, 1958, elevation, 804.7 ft (245.27 m); minimum observed since appreciable storage was attained, 10,910 acre-ft (13.5 hm³) Oct. 11, 1960, elevation, 670.8 ft (204.46 m).

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 348,200 acre-ft (429 hm³) Apr. 14, elevation, 799.65 ft (243.733 m); minimum observed, 118,700 acre-ft (146 hm³) Nov. 12, elevation, 743.40 ft (226.588 m).

11150100 LAKE SAN ANTONIO.--Lat 35°47'55", long 120°53'02", in SW¼ sec.34, T.24 S., R.10 E., Monterey County, Hydrologic Unit 18060005, 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 mi² (855 km²). 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 National Geodetic Vertical Datum of 1929 (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 hm³); usable capacity, 330,000 acre-ft (407 hm³) 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 hm³). 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, 357,000 acre-ft (440 hm³) Feb. 26-28, 1980, elevation, 781.2 ft (238.11 m); minimum since appreciable storage was attained, 22,000 acre-ft (27.1 hm³) Dec. 13-17, 1977, elevation, 664.50 ft (202.540 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 355,200 acre-ft (438 hm³) Apr. 16-21, elevation, 780.90 ft (238.018 m); minimum, 275,800 acre-ft (340 hm³) Nov. 12, elevation, 766.35 ft (233.583 m).

MONTHEND CONTENTS, IN ACRE-FEET, AT 2400, OCTOBER 1981 TO SEPTEMBER 1982

Date	Lake Nacimiento	San Antonio Reservoir
Sept. 30, 1981.	142,400	280,100
Oct. 31.....	123,800	276,300
Nov. 30.....	132,200	278,100
Dec. 31.....	142,700	279,600
Jan. 31, 1982..	203,300	279,900
Feb. 28.....	217,700	304,300
Mar. 31.....	256,700	316,800
Apr. 30.....	342,500	348,800
May 31.....	344,500	337,900
June 30.....	339,700	323,900
July 31.....	330,700	323,900
Aug. 31.....	299,600	300,800
Sept. 30.....	270,700	294,700

SALINAS RIVER BASIN

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, Hydrologic Unit 18060005, 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 mi² (834 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 597 ft (182 m) Corps of Engineers datum.

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

AVERAGE DISCHARGE (unadjusted).--25 years, 287 ft³/s (8.128 m³/s), 207,900 acre-ft/yr (256 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,340 ft³/s (208 m³/s) Feb. 25, 1969, gage height, 10.92 ft (3.328 m); no flow for many days in each year except 1964, 1966-76, 1978-82.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,620 ft³/s (159 m³/s) Apr. 12, gage height, 9.84 ft (2.999 m); minimum daily, 4.5 ft³/s (0.127 m³/s) several days during March.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	406	263	15	15	16	4.5	12	15	73	69	305	504
2	407	263	15	15	16	4.5	10	15	74	120	371	472
3	408	265	15	15	16	4.5	10	15	74	120	413	472
4	409	267	15	16	16	4.5	9.9	15	74	120	415	472
5	328	269	14	16	16	4.5	9.9	17	74	119	392	472
6	251	211	15	15	16	4.5	10	17	74	118	417	472
7	253	133	14	16	16	4.5	9.9	17	74	97	417	472
8	253	131	15	16	16	4.5	9.9	17	73	52	419	470
9	253	131	14	16	16	4.5	9.9	17	70	71	440	470
10	254	132	14	16	16	4.5	11	17	66	81	511	470
11	255	131	15	16	16	6.4	702	17	66	81	510	469
12	256	132	15	16	16	9.7	2710	17	67	80	509	469
13	257	105	15	16	16	9.9	2140	17	67	81	507	469
14	257	9.9	15	16	16	10	2290	17	67	80	506	469
15	257	14	15	16	16	9.9	2290	17	67	80	506	469
16	258	14	15	16	17	11	2280	17	67	90	505	470
17	259	15	14	16	14	11	2270	17	66	114	505	471
18	259	14	14	16	16	11	2260	17	65	114	485	470
19	260	14	14	16	16	10	1690	17	65	113	535	471
20	260	14	15	17	16	9.9	21	16	65	114	551	470
21	260	14	15	17	16	9.6	17	17	65	114	550	470
22	260	15	15	16	17	9.5	16	17	65	114	549	469
23	260	14	15	16	17	9.5	15	16	65	114	548	469
24	261	15	15	16	17	9.4	15	22	67	114	547	469
25	263	15	15	16	16	9.5	15	75	66	115	546	471
26	263	15	14	16	16	9.9	15	75	66	119	544	469
27	263	16	15	17	17	9.6	15	74	66	133	544	468
28	265	15	15	16	17	9.7	15	74	66	149	544	467
29	263	15	15	17	---	10	15	73	65	189	544	466
30	263	15	15	17	---	9.6	15	73	65	305	544	466
31	263	---	15	17	---	12	---	73	---	305	544	---
TOTAL	8684	2676.9	457	498	452	252.1	18908.5	920	2044	3685	15223	14127
MEAN	280	89.2	14.7	16.1	16.1	8.13	630	29.7	68.1	119	491	471
MAX	409	269	15	17	17	12	2710	75	74	305	551	504
MIN	251	9.9	14	15	14	4.5	9.9	15	65	52	305	466
AC-FT	17220	5310	906	988	897	500	37510	1820	4050	7310	30190	28020
CAL YR 1981 TOTAL	91115.5		MEAN 250	MAX 2690	MIN 8.2	AC-FT 180700						
WTR YR 1982 TOTAL	67927.5		MEAN 186	MAX 2710	MIN 4.5	AC-FT 134700						

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CA

LOCATION.--Lat 35°53'48", long 121°05'14", in Los Ojitos Grant, Monterey County, Hydrologic Unit 18060005, 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.--217 mi² (562 km²), revised.

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) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for period of no gage height record, which are poor. No regulation; some pumping above station.

AVERAGE DISCHARGE.--17 years, 105 ft³/s (2.974 m³/s), 76,070 acre-ft/yr (93.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,000 ft³/s (396 m³/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.--Peak discharges above base of 1,500 ft³/s (42 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 5	0500	3,770 107	9.18 2.798
Apr. 11	Unknown	*8,200 232	11.51 3.508

Minimum, no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	49	94	140	100	820	154	59	19	.11	
2		0	42	100	129	257	730	145	59	18	.05	
3		0	50	95	119	292	806	138	62	17	.03	
4		0	45	588	108	223	796	138	55	15	.01	
5		0	40	2430	98	167	641	157	54	14	.01	
6		0	37	912	94	162	503	166	52	13	.01	
7		0	35	581	93	153	388	152	49	11	0	
8		0	33	425	91	142	349	135	46	10	0	
9		0	31	347	86	122	312	149	43	8.5	0	
10		0	29	297	80	122	450	148	41	7.3	0	
11		0	30	264	77	127	2900	144	39	6.4	0	
12		0	27	256	74	142	1600	137	38	5.6	0	
13		0	26	235	72	124	1200	129	36	4.8	0	
14		163	27	220	75	122	1040	125	34	3.8	0	
15		60	40	196	82	122	870	120	32	3.2	0	
16		87	38	178	253	124	734	116	30	2.6	0	
17		100	35	163	247	213	657	113	28	1.8	0	
18		111	37	151	199	317	558	99	266	2.0	0	
19		94	32	138	181	264	490	85	27	2.2	0	
20		67	33	201	159	225	414	84	27	1.8	0	
21		49	54	362	142	209	362	81	26	1.4	0	
22		41	55	286	131	198	406	77	24	1.2	0	
23		38	65	243	124	192	362	75	22	.90	0	
24		35	62	208	117	173	330	73	21	.75	0	
25		34	57	191	109	164	296	74	20	.65	0	
26		39	57	180	102	156	270	70	19	.54	0	
27		55	52	190	95	150	244	68	18	.45	0	
28		124	62	188	93	145	220	66	17	.37	0	
29		92	62	186	---	173	199	65	16	.31	0	
30		62	127	165	---	338	163	65	17	.25	0	
31		---	108	153	---	550	---	62	---	.17	0	---
TOTAL	0	1251	1477	10223	3370	5968	19110	3410	1277	173.99	.22	0
MEAN	0	41.7	47.6	330	120	193	637	110	42.6	5.61	.007	0
MAX	0	163	127	2430	253	550	2900	166	266	19	.11	0
MIN	0	0	26	94	72	100	163	62	16	.17	0	0
AC-FT	0	2480	2930	20280	6680	11840	37900	6760	2530	345	.4	0

CAL YR 1981 TOTAL 17394.88 MEAN 47.7 MAX 1200 MIN 0 AC-FT 34500
WTR YR 1982 TOTAL 46260.21 MEAN 127 MAX 2900 MIN 0 AC-FT 91760

NOTE.--No gage-height record Mar. 31 to Apr. 1, Apr. 10-13, June 7 to Aug. 6.

SALINAS RIVER BASIN

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 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
NOV 16...	1630	89	14.5	71	17	8	--	--	--	--	--
DEC 14...	1445	24	17.0	4	.26	17	--	--	--	--	--
APR 15...	1745	845	16.5	405	924	12	18	36	78	95	100
JUN 07...	1800	49	24.5	6	.79	36	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
NOV 16...	1630	14.5	89	89	--	--	--	--
JUN 07...	1800	24.5	1	49	6	29	70	96
07...	1805	24.5	1	49	--	--	1	19
07...	1810	24.5	1	49	--	1	3	10
07...	1815	24.5	1	49	--	1	2	8
07...	1820	24.5	1	49	7	18	29	38

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
NOV 16...	--	8	--	--	--	--	--
JUN 07...	100	--	--	--	--	--	--
07...	51	75	86	93	100	--	--
07...	20	26	32	38	48	63	100
07...	20	31	41	50	63	87	100
07...	53	66	73	77	84	100	--

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	STREAM WIDTH (FT)	SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
NOV 16...	1645	14.5	23	87	139	116	3
DEC 14...	1530	17.0	26	24	39.0	28	1
FEB 10...	1630	10.5	22	87	68.0	98	1
JUN 07...	1745	24.5	20	49	72.0	44	1

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM
NOV 16...	24	66	89	96	99	100
DEC 14...	19	63	88	96	98	100
FEB 10...	24	67	89	96	98	100
JUN 07...	18	61	89	96	99	100

SALINAS RIVER BASIN

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, Hydrologic Unit 18060005, on left bank 6 mi (10 km) northwest of Bradley, and 7 mi (11 km) downstream from San Antonio River.

DRAINAGE AREA.--2,535 mi² (6,566 km²).

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) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

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

AVERAGE DISCHARGE (unadjusted).--34 years, 453 ft³/s (12.83 m³/s), 328,200 acre-ft/yr (405 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 117,000 ft³/s (3,310 m³/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, 12,600 ft³/s (357 m³/s) Apr. 11, gage height, 12.20 ft (3.719 m); minimum daily, 11 ft³/s (0.312 m³/s) May 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	434	331	27	25	89	74	3140	836	311	276	499	669
2	443	330	27	25	76	95	2530	826	311	353	509	580
3	443	325	27	26	71	595	1770	826	311	399	546	586
4	437	328	27	33	66	426	1370	806	302	404	549	602
5	422	330	27	44	60	302	1050	779	319	411	529	612
6	342	329	27	43	51	234	800	645	325	413	529	612
7	340	233	27	41	46	196	583	365	325	390	526	613
8	362	200	27	44	44	175	404	339	317	347	507	610
9	365	185	27	44	44	153	322	335	317	330	506	604
10	364	174	27	44	47	140	317	269	320	353	595	577
11	348	172	25	43	55	135	7000	106	315	359	661	576
12	337	179	25	41	58	130	5900	70	313	353	671	581
13	346	186	23	38	61	125	5300	54	316	356	681	586
14	349	154	23	32	61	115	4710	99	318	366	680	552
15	361	78	22	28	61	115	4210	92	322	369	631	496
16	355	52	22	27	68	112	3930	42	342	367	568	492
17	347	42	22	27	139	110	3700	28	359	415	526	487
18	350	37	22	27	240	195	3580	21	261	436	514	502
19	352	34	22	27	193	250	3440	16	333	439	550	546
20	355	32	24	32	163	335	1320	11	339	430	611	542
21	346	31	27	34	141	365	821	150	329	425	623	552
22	337	30	29	77	124	307	725	192	328	429	628	627
23	342	28	29	112	110	261	660	192	330	434	630	583
24	350	27	28	99	99	223	565	157	294	439	646	670
25	355	26	26	87	88	196	493	232	313	445	628	686
26	353	25	25	72	76	187	582	281	316	425	594	679
27	353	29	23	69	70	184	1060	290	316	425	626	646
28	363	29	23	87	69	179	996	296	320	453	588	530
29	356	29	23	106	---	191	925	306	332	478	601	503
30	350	28	23	104	---	288	861	306	342	449	616	495
31	345	---	24	100	---	480	---	309	---	482	632	---
TOTAL	11302	4013	780	1638	2470	6873	63064	9276	9596	12450	18200	17396
MEAN	365	134	25.2	52.8	88.2	222	2102	299	320	402	587	580
MAX	443	331	29	112	240	595	7000	836	359	482	681	686
MIN	337	25	22	25	44	74	317	11	261	276	499	487
AC-FT	22420	7960	1550	3250	4900	13630	125100	18400	19030	24690	36100	34500
CAL YR 1981 TOTAL	129118		MEAN 354	MAX 2700	MIN 22	AC-FT 256100						
WTR YR 1982 TOTAL	157058		MEAN 430	MAX 7000	MIN 11	AC-FT 311500						

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, Hydrologic Unit 18060005, on left 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 mi² (603 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 431.64 ft (131.564 m) National Geodetic Vertical Datum of 1929. October 1958 to Apr. 24, 1967, at site 500 ft (152 m) upstream at datum 5.00 ft (1.524 m) higher. Apr. 25, 1967, to July 12, 1981, at site 200 ft (61 m) upstream.

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

AVERAGE DISCHARGE.--24 years, 13.5 ft³/s (0.382 m³/s), 9,780 acre-ft/yr (12.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,800 ft³/s (306 m³/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, 2,850 ft³/s (80.7 m³/s) Apr. 11 (1115 hrs), gage height, 9.73 ft (2.966 m), no other peak above base of 250 ft³/s (7.1 m³/s); minimum daily, 0.32 ft³/s (0.009 m³/s) Aug. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.69	2.4	6.6	5.1	6.3	5.4	96	11	2.4	.78	.34	.36
2	.59	2.0	5.2	8.7	5.4	25	80	11	1.9	.53	.33	.40
3	.61	1.6	4.3	9.5	5.2	29	40	10	2.0	.51	.32	.41
4	.96	1.5	3.8	7.5	4.9	13	32	9.1	1.7	.49	.33	.43
5	1.0	2.2	3.7	40	4.9	9.4	16	8.2	1.7	.45	.33	.43
6	.97	5.6	3.4	21	4.5	7.8	12	7.4	1.6	.48	.33	.40
7	.99	4.6	3.3	9.5	4.4	7.1	10	6.4	1.3	.45	.33	.45
8	1.1	2.7	3.3	6.4	4.3	7.1	7.7	6.1	1.4	.44	.34	.40
9	1.0	2.4	3.2	5.3	4.1	6.7	6.0	6.5	1.5	.44	.34	.42
10	1.1	1.9	3.3	4.6	4.6	8.1	23	7.1	1.2	.44	.34	.39
11	1.1	1.4	3.3	3.9	5.0	9.3	779	6.6	.97	.45	.34	.40
12	.89	1.6	3.3	3.4	4.6	11	162	6.3	.81	.49	.34	.43
13	.98	7.5	3.3	3.1	4.4	9.3	84	5.9	.72	.49	.35	.38
14	.92	33	3.1	2.9	4.7	8.7	64	5.3	.71	.49	.35	.43
15	1.1	22	3.1	2.7	6.5	25	54	5.0	.63	.49	.35	.79
16	.96	8.4	3.1	2.7	47	21	47	4.9	.55	.49	.35	.76
17	.87	5.1	3.2	2.7	26	69	41	4.8	.52	.51	.36	.83
18	.97	16	3.3	2.7	11	68	36	4.7	.53	.58	.40	.68
19	.99	7.8	3.5	2.9	7.6	57	32	4.5	.55	.57	.39	.68
20	.95	3.7	3.1	9.5	5.9	43	29	4.0	.56	.46	.40	.66
21	1.0	2.3	3.1	24	4.8	37	26	3.5	.57	.42	.41	.62
22	.95	1.8	3.1	14	4.3	28	23	3.6	.56	.41	.40	.61
23	.90	1.5	3.1	9.1	3.9	24	21	3.5	.50	.38	.40	.62
24	.91	1.4	3.3	12	3.6	20	19	3.1	.50	.37	.38	.83
25	.83	1.5	3.3	20	3.8	17	17	2.6	.58	.36	.39	2.7
26	.88	1.4	3.3	16	3.8	17	16	2.5	.45	.37	.39	3.1
27	.92	19	3.3	21	3.8	18	15	2.4	.40	.35	.42	1.8
28	2.3	39	3.3	12	3.7	16	14	2.4	.39	.35	.38	1.3
29	4.3	16	3.7	15	---	26	13	2.6	.95	.36	.39	1.0
30	5.7	9.1	4.5	9.7	---	48	12	2.7	2.2	.38	.41	.95
31	2.9	---	7.3	7.5	---	54	---	2.6	---	.33	.37	---
TOTAL	40.33	226.4	113.7	314.4	203.0	744.9	1826.7	166.3	30.35	14.11	11.30	23.66
MEAN	1.30	7.55	3.67	10.1	7.25	24.0	60.9	5.36	1.01	.46	.36	.79
MAX	5.7	39	7.3	40	47	69	779	11	2.4	.78	.42	3.1
MIN	.59	1.4	3.1	2.7	3.6	5.4	6.0	2.4	.39	.33	.32	.36
AC-FT	80	449	226	624	403	1480	3620	330	60	28	22	47

CAL YR 1981 TOTAL 2470.78 MEAN 6.77 MAX 203 MIN .27 AC-FT 4900
WTR YR 1982 TOTAL 3715.15 MEAN 10.2 MAX 779 MIN .32 AC-FT 7370

SALINAS RIVER BASIN

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, Hydrologic Unit 18060005, 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 mi² (293 km²).

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Records fair except those for period of no gage-height record, July 7 to Aug. 19, which are poor. No regulation; small diversion for fishponds above station by pumping.

AVERAGE DISCHARGE.--21 years, 157 ft³/s (4.446 m³/s), 113,700 acre-ft/yr (140 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,800 ft³/s (617 m³/s) Dec. 6, 1966, gage height, 14.50 ft (4.420 m), present datum, from rating curve extended above 5,700 ft³/s (161 m³/s) on basis of slope-area measurement at gage-height 12.65 ft (3.856 m), present datum; maximum gage height, 16.34 ft (4.980 m) Feb. 7, 1978; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft³/s (42 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 13	2330	9,740 276	12.28 3.743	Feb. 16	0530	2,660 75.3	9.60 2.926
Nov. 17	0530	2,290 64.9	9.71 2.960	Mar. 31	1600	6,600 187	11.25 3.429
Dec. 29	2315	2,680 75.9	9.90 3.018	Apr. 11	0315	9,070 257	12.07 3.679
Jan. 4	2400	*12,800 362	13.12 3.999				

Minimum daily, 5.9 ft³/s (0.167 m³/s) Oct. 2, 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	15	166	371	264	344	2890	332	108	60	29	17
2	5.9	13	147	383	246	624	1930	305	106	55	27	17
3	5.9	13	131	302	231	461	2290	296	102	52	27	16
4	6.6	12	120	4090	217	372	1900	282	98	52	30	15
5	7.2	12	110	5140	202	327	1570	265	97	48	29	14
6	7.4	14	100	1460	192	296	1380	254	94	47	27	14
7	7.1	13	92	869	183	278	1220	247	92	46	27	14
8	7.9	13	85	639	175	264	1090	237	90	46	26	14
9	8.2	13	79	510	167	247	996	229	87	46	25	14
10	8.2	12	82	423	165	245	2990	223	83	46	24	14
11	8.7	12	76	363	155	260	5790	214	81	45	23	14
12	9.1	20	72	317	147	251	3300	203	79	45	23	14
13	9.3	2120	73	278	156	230	2240	196	77	45	23	13
14	9.5	1800	68	248	175	251	1740	187	75	45	23	14
15	9.5	346	65	225	402	236	1440	180	72	45	24	15
16	9.5	301	62	205	1300	293	1230	172	68	44	23	19
17	9.0	731	59	189	639	459	1060	166	66	44	22	20
18	8.6	269	57	176	479	567	940	161	66	43	21	20
19	8.1	185	55	183	400	525	842	156	65	43	20	19
20	7.8	143	464	447	353	461	761	150	63	42	19	18
21	7.4	120	303	387	319	437	687	144	61	41	19	17
22	7.4	104	211	302	293	415	624	141	60	40	18	16
23	7.4	89	172	275	269	398	574	136	58	38	17	17
24	7.4	106	149	280	249	381	529	130	57	87	17	31
25	7.1	93	132	290	234	360	491	125	56	37	17	35
26	7.3	98	122	377	222	352	458	122	55	36	16	36
27	8.1	427	114	367	211	345	426	121	54	35	16	25
28	109	396	105	400	203	385	397	118	53	34	16	23
29	51	246	595	350	---	627	373	115	59	33	17	22
30	24	194	860	314	---	616	350	113	69	32	18	21
31	18	---	363	286	---	3550	---	110	---	30	17	---
TOTAL	413.7	7930	5289	20446	8248	14857	42508	5830	2251	1382	680	558
MEAN	13.3	264	171	660	295	479	1417	188	75.0	44.6	21.9	18.6
MAX	109	2120	860	5140	1300	3550	5790	332	108	87	30	36
MIN	5.9	12	55	176	147	230	350	110	53	30	16	13
AC-FT	821	15730	10490	40550	16360	29470	84310	11560	4460	2740	1350	1110

CAL YR 1981	TOTAL	47017.3	MEAN 129	MAX 3160	MIN 5.5	AC-FT 93260
WTR YR 1982	TOTAL	110392.7	MEAN 302	MAX 5790	MIN 5.9	AC-FT 219000

WATER-QUALITY RECORDS

SEDIMENT RECORDS: Water years 1962 to current year.

SEDIMENT RECORDS: October 1962 to September 1975, October 1977 to current year.

SEDIMENT DISCHARGE: Maximum daily, 451,000 tons (409,000 metric tons) Feb. 7, 1978; minimum daily, 0 ton (0 metric ton) many days in 1966, 1968, 1970-73, 1977.

SEDIMENT DISCHARGE: Maximum daily, 16,100 tons (14,600 metric tons) Apr. 11; minimum daily, 0.02 ton (0.02 metric ton) Oct. 12, 17-20.

[illegible]

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	6.1	2	.03	15	5	.20	166	4	1.8
2	5.9	2	.03	13	4	.14	147	2	.79
3	5.9	2	.03	13	3	.11	131	2	.71
4	6.6	2	.04	12	3	.10	120	2	.65
5	7.2	2	.04	12	2	.06	110	2	.59
6	7.4	2	.04	14	5	.19	100	2	.54
7	7.1	2	.04	13	5	.18	92	2	.50
8	7.9	2	.04	13	4	.14	85	2	.46
9	8.2	2	.04	13	3	.11	79	1	.21
10	8.2	2	.04	12	3	.10	82	1	.22
11	8.7	2	.05	12	2	.06	76	1	.21
12	9.1	1	.02	20	11	2.0	72	1	.19
13	9.3	1	.03	2120	486	6830	73	2	.39
14	9.5	1	.03	1800	321	5000	68	2	.37
15	9.5	1	.03	346	68	91	65	2	.35
16	9.5	1	.03	301	45	46	62	2	.33
17	9.0	1	.02	731	110	355	59	1	.16
18	8.6	1	.02	269	20	15	57	2	.31
19	8.1	1	.02	185	7	3.5	55	2	.30
20	7.8	1	.02	143	5	1.9	464	47	102
21	7.4	2	.04	120	3	.97	303	9	7.4
22	7.4	2	.04	104	3	.84	211	4	2.3
23	7.4	2	.04	89	2	.48	172	3	1.4
24	7.4	3	.06	106	9	2.7	149	3	1.2
25	7.1	3	.06	93	5	1.3	132	2	.71
26	7.3	3	.06	98	8	2.1	122	1	.33
27	8.1	4	.09	427	24	36	114	1	.31
28	109	100	40	396	12	15	105	1	.28
29	51	30	4.6	246	7	4.6	595	62	355
30	24	12	.78	194	5	2.6	860	58	216
31	18	7	.34	---	---	---	363	7	6.5
TOTAL	413.7	---	46.75	7930	---	12412.38	5289	---	702.51

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	371	8	9.1	264	2	1.4	344	19	22
2	383	9	10	246	2	1.3	624	23	48
3	302	3	2.4	231	2	1.2	461	5	6.2
4	4090	567	14400	217	2	1.2	372	4	4.0
5	5140	810	16000	202	2	1.1	327	4	3.5
6	1460	105	414	192	2	1.0	296	3	2.4
7	869	30	70	183	2	.99	278	2	1.5
8	639	9	16	175	2	.95	264	2	1.4
9	510	4	5.5	167	2	.90	247	2	1.3
10	423	3	3.4	165	2	.89	245	3	2.0
11	363	3	2.9	155	2	.84	260	2	1.4
12	317	2	1.7	147	1	.40	251	1	.68
13	278	2	1.5	156	2	.79	230	1	.62
14	248	2	1.3	175	1	.47	251	3	1.9
15	225	1	.61	402	45	127	236	2	1.3
16	205	1	.55	1300	186	836	293	9	7.2
17	189	1	.51	639	20	35	459	14	18
18	176	1	.48	479	4	5.2	567	15	22
19	183	7	3.7	400	3	3.2	525	10	14
20	447	23	29	353	2	1.9	461	7	8.7
21	387	5	5.9	319	2	1.7	437	5	5.9
22	302	3	2.4	293	2	1.6	415	3	3.4
23	275	2	1.5	269	2	1.5	398	2	2.1
24	280	3	2.3	249	2	1.3	381	2	2.1
25	290	4	3.1	234	2	1.3	360	3	2.9
26	377	9	9.6	222	2	1.2	352	3	2.9
27	367	8	7.9	211	2	1.1	345	3	2.8
28	400	11	12	203	2	1.1	385	4	4.7
29	350	7	6.6	---	---	---	627	74	175
30	314	5	4.2	---	---	---	616	40	67
31	286	4	3.1	---	---	---	3550	573	7140
TOTAL	20446	---	31031.25	8248	---	1032.53	14857	---	7576.90

11151870 ARROYO SECO NEAR GREENFIELD, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2890	142	1270	332	6	5.4	108	1	.29
2	1930	13	68	305	5	4.1	106	1	.29
3	2290	32	198	296	4	3.2	102	1	.28
4	1900	13	67	282	3	2.3	98	1	.26
5	1570	9	38	265	3	2.1	97	1	.26
6	1380	5	19	254	2	1.4	94	1	.25
7	1220	3	9.9	247	2	1.3	92	1	.25
8	1090	3	8.8	237	3	1.9	90	1	.24
9	996	4	11	229	4	2.5	87	1	.23
10	2990	764	9750	223	5	3.0	83	1	.22
11	5790	907	16100	214	5	2.9	81	1	.22
12	3300	150	1340	203	6	3.3	79	1	.21
13	2240	80	484	196	6	3.2	77	1	.21
14	1740	46	216	187	6	3.0	75	1	.20
15	1440	39	152	180	6	2.9	72	1	.19
16	1230	33	110	172	7	3.3	68	1	.18
17	1060	27	77	166	7	3.1	66	1	.18
18	940	21	53	161	7	3.0	66	1	.18
19	842	18	41	156	7	2.9	65	1	.18
20	761	16	33	150	7	2.8	63	1	.17
21	687	15	28	144	7	2.7	61	1	.16
22	624	14	24	141	7	2.7	60	1	.16
23	574	13	20	136	6	2.2	58	1	.16
24	529	12	17	130	5	1.8	57	1	.15
25	491	12	16	125	4	1.4	56	1	.15
26	458	11	14	122	2	.66	55	1	.15
27	426	10	12	121	2	.65	54	1	.15
28	397	9	9.6	118	2	.64	53	1	.14
29	373	8	8.1	115	2	.62	59	2	.32
30	350	7	6.6	113	2	.61	69	2	.37
31	---	---	---	110	2	.59	---	---	---
TOTAL	42508	---	30201.0	5830	---	72.17	2251	---	6.40
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	60	2	.32	29	2	.16	17	1	.05
2	55	2	.30	27	2	.15	17	1	.05
3	52	2	.28	27	2	.15	16	1	.04
4	52	2	.28	30	2	.16	15	1	.04
5	48	2	.26	29	2	.16	14	1	.04
6	47	2	.25	27	2	.15	14	1	.04
7	46	2	.25	27	2	.15	14	1	.04
8	46	2	.25	26	2	.14	14	1	.04
9	46	2	.25	25	2	.14	14	1	.04
10	46	2	.25	24	2	.13	14	1	.04
11	45	2	.24	23	2	.12	14	1	.04
12	45	2	.24	23	2	.12	14	1	.04
13	45	2	.24	23	2	.12	13	1	.04
14	45	2	.24	23	2	.12	14	1	.04
15	45	2	.24	24	2	.13	15	1	.04
16	44	2	.24	23	2	.12	19	1	.05
17	44	2	.24	22	2	.12	20	1	.05
18	43	2	.23	21	2	.11	20	1	.05
19	43	2	.23	20	2	.11	19	1	.05
20	42	2	.23	19	2	.10	18	1	.05
21	41	2	.22	19	2	.10	17	1	.05
22	40	2	.22	18	2	.10	16	1	.04
23	38	2	.21	17	2	.09	17	2	.09
24	87	2	.47	17	2	.09	31	5	.42
25	37	2	.20	17	2	.09	35	5	.47
26	36	2	.19	16	2	.09	36	4	.39
27	35	2	.19	16	2	.09	25	3	.20
28	34	2	.18	16	2	.09	23	2	.12
29	33	2	.18	17	2	.09	22	2	.12
30	32	2	.17	18	2	.10	21	2	.11
31	30	2	.16	17	1	.05	---	---	---
TOTAL	1382	---	7.45	680	---	3.64	558	---	2.88
YEAR 110392.7			83095.86						

SALINAS RIVER BASIN

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, Hydrologic Unit 18060005, 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 mi² (632 km²).

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 339.20 ft (103.388 m) National Geodetic Vertical Datum of 1929. 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 fair. No regulation or large diversion above station.

AVERAGE DISCHARGE.--81 years, 167 ft³/s (4.729 m³/s), 121,000 acre-ft/yr (149 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,300 ft³/s (801 m³/s) Apr. 3, 1958, gage height, 16.40 ft (4.999 m), present datum, from rating curve extended above 12,000 ft³/s (340 m³/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.--Peak discharges above base of 2,500 ft³/s (70.8 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 14	0230	6,950 197	8.66 2.640	Mar. 31	1830	7,530 213	8.96 2.731
Jan. 5	0330	15,500 439	12.30 3.749	Apr. 11	0700	*16,200 459	12.55 3.825

Minimum daily, 4.1 ft³/s (0.116 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	21	180	431	284	339	2900	411	132	80	34	18
2	4.2	19	165	420	267	798	1780	388	129	77	33	18
3	4.2	20	150	324	255	554	1980	362	125	73	33	17
4	4.5	20	140	5000	244	412	1830	343	120	73	35	16
5	5.0	20	130	6620	232	366	1520	325	119	71	34	14
6	5.2	21	120	1430	221	337	1310	308	117	67	32	15
7	5.2	22	110	1020	211	316	1170	291	114	66	32	14
8	5.6	22	100	789	204	312	1060	277	112	65	30	13
9	6.2	22	95	681	195	284	983	271	108	63	29	13
10	6.9	21	90	580	192	303	2180	261	104	60	29	13
11	7.9	21	87	492	184	302	9740	252	102	58	27	14
12	8.6	23	85	422	175	298	4060	240	99	58	27	14
13	8.9	2300	83	360	172	267	2530	230	96	56	27	14
14	9.4	2000	79	316	197	281	2070	220	96	54	27	15
15	10	360	76	285	282	277	1760	210	92	53	28	17
16	10	350	73	255	1360	322	1510	202	89	52	26	21
17	10	800	69	234	727	540	1320	194	86	51	25	21
18	10	320	688	222	517	718	1160	189	85	51	24	21
19	10	230	65	222	430	597	1030	184	85	50	23	22
20	9.8	150	600	635	384	539	893	177	84	49	23	21
21	9.7	125	400	668	350	501	801	171	82	48	21	20
22	9.7	110	270	408	324	470	742	165	82	46	20	19
23	9.7	100	210	318	306	447	685	160	80	44	20	23
24	9.7	115	180	312	285	428	638	153	78	44	19	38
25	9.7	100	160	321	272	409	597	148	77	43	18	45
26	9.7	120	145	396	257	403	562	145	77	42	18	40
27	10	470	135	435	246	394	527	141	75	41	18	30
28	84	420	130	430	235	433	491	140	74	40	18	28
29	81	350	650	381	---	678	459	138	77	39	17	27
30	37	210	980	331	---	696	434	136	90	38	17	26
31	26	---	500	307	---	3090	---	133	---	36	17	---
TOTAL	441.9	8882	6945	25045	9008	16111	48722	6965	2886	1688	781	627
MEAN	14.3	296	224	808	322	520	1624	225	96.2	54.5	25.2	20.9
MAX	84	2300	980	6620	1360	3090	9740	411	132	80	35	45
MIN	4.1	19	65	222	172	267	434	133	74	36	17	13
AC-FT	877	17620	13780	49680	17870	31960	96640	13820	5720	3350	1550	1240

CAL YR 1981 TOTAL 54670.52 MEAN 150 MAX 3650 MIN .22 AC-FT 108400
WTR YR 1982 TOTAL 128101.90 MEAN 351 MAX 9740 MIN 4.1 AC-FT 254100

SALINAS RIVER BASIN

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11152300 SALINAS RIVER NEAR CHUALAR, CA
(National stream-quality accounting network station)

LOCATION.--Lat 36°33'14", long 121°32'53", in Guadalupe Y Llanitos de Los Correos Grant, Monterey County, Hydrologic Unit 18060005, near left bank on downstream side of bridge on Chualar-River Road, 2 mi (3 km) southwest of Chualar.

DRAINAGE AREA.--4,042 mi² (10,469 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder installed January 1979 (nonrecording gage prior to 1979). Datum of gage is 68.00 ft (20.726 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Daily discharge prior to January 1979 determined by discharge measurements at this site correlated to streamflow for Salinas River at Soledad (station 11151700) and Salinas River near Spreckels (station 11152500). Flow partly regulated by Santa Margarita Lake (station 11144500), Lake Nacimiento, formerly Nacimiento Reservoir (station 11149300), and San Antonio Reservoir (station 11150100). Large withdrawals from ground water and small surface-water diversions for municipal use and irrigation above station.

AVERAGE DISCHARGE.--6 years, 492 ft³/s (13.93 m³/s), 356,500 acre-ft/yr (440 hm³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 37,000 ft³/s (1,050 m³/s) Feb. 11, 1978; no flow many days in 1977 and several days in 1978-81.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,220 ft³/s (204 m³/s) Apr. 11, gage height, 10.22 ft (3.115 m); no flow Dec. 23-28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	76	27	107	237	156	3370	944	119	46	23	163
2	67	77	20	121	218	218	2770	895	115	41	27	165
3	66	77	16	128	200	411	3310	876	113	32	27	163
4	65	77	14	108	188	347	3120	837	109	26	32	133
5	71	78	12	3170	172	332	2500	798	105	42	30	122
6	72	83	9.6	2250	160	345	2140	767	100	62	37	132
7	72	88	8.6	1160	150	310	1800	721	106	67	28	152
8	65	90	7.6	741	142	280	1530	667	106	59	22	157
9	51	88	6.6	558	134	247	1280	558	98	49	28	151
10	47	74	4.5	443	124	229	1130	514	92	37	32	146
11	48	63	2.2	365	116	225	5140	471	86	31	32	148
12	49	60	1.3	308	103	216	6390	422	79	29	33	152
13	49	70	3.3	258	96	202	5870	363	74	33	41	160
14	48	593	2.6	219	93	185	5020	318	75	33	48	162
15	47	401	1.9	189	114	190	4820	281	78	29	54	158
16	46	114	1.7	166	315	186	4460	256	77	24	65	156
17	45	109	1.1	146	830	241	4200	225	70	14	73	154
18	44	191	.49	128	504	431	3960	203	64	10	76	152
19	42	109	.30	116	381	602	3750	183	60	9.7	78	147
20	43	70	.59	128	327	764	3540	161	55	23	92	150
21	43	55	.81	343	301	806	2580	140	51	30	104	149
22	41	45	.17	325	277	700	1830	120	56	29	109	142
23	38	37	0	252	253	616	1530	105	56	24	116	139
24	36	30	0	216	229	557	1330	105	49	24	133	173
25	38	23	0	215	213	507	1190	105	46	27	131	189
26	43	19	0	221	193	481	1080	103	34	30	130	224
27	47	23	0	271	177	446	978	94	27	30	124	250
28	59	30	0	292	161	424	1040	94	30	27	120	258
29	64	50	1.8	311	---	453	1100	98	35	28	138	258
30	71	43	18	277	---	685	1030	102	44	22	155	241
31	73	---	154	257	---	729	---	112	---	22	161	---
TOTAL	1657	2943	316.16	13789	6408	12521	83788	11638	2209	989.7	2299	5046
MEAN	53.5	98.1	10.2	445	229	404	2793	375	73.6	31.9	74.2	168
MAX	73	593	154	3170	830	806	6390	944	119	67	161	258
MIN	36	19	0	107	93	156	978	94	27	9.7	22	122
AC-FT	3290	5840	627	27350	12710	24840	166200	23080	4380	1960	4560	10010

CAL YR 1981 TOTAL 47774.24 MEAN 131 MAX 1540 MIN 0 AC-FT 94760
WTR YR 1982 TOTAL 143603.86 MEAN 393 MAX 6390 MIN 0 AC-FT 284800

SALINAS RIVER BASIN

11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977 to current year.

CHEMICAL ANALYSES: Water years 1977 to current year.

BIOLOGICAL DATA: Water years 1977-81.

SPECIFIC CONDUCTANCE: Water years 1977-81.

WATER TEMPERATURE: Water years 1977-81.

SEDIMENT RECORDS: Water years 1977 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1977 to September 1981.

WATER TEMPERATURES: January 1977 to September 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)
NOV 16...	1230	152	479	8.3	17.0	20	9.2	K70	470	186	46
JAN 25...	1400	215	558	8.1	12.0	25	11.1	K13	220	236	86
MAR 09...	1300	248	592	8.4	14.5	64	10.2	K38	260	234	74
MAY 17...	1330	233	853	8.2	20.0	14	9.2	K23	--	317	97
JUL 12...	1400	30	774	8.6	26.0	3.4	9.2	K23	180	288	108
SEP 13...	1300	191	352	8.6	22.0	23	9.4	K24	430	159	29

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
NOV 16...	48	16	24	22	.8	2.4	140	82	26	.2
JAN 25...	60	21	35	24	1.0	2.4	150	110	23	.2
MAR 09...	59	21	35	24	1.0	2.5	160	110	38	.2
MAY 17...	79	29	56	28	1.4	3.3	220	180	42	.3
JUL 12...	69	28	49	27	1.3	3.2	180	160	47	.2
SEP 13...	39	15	17	19	.6	1.6	130	51	15	.2

DATE	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
NOV 16...	19	293	296	.40	.53	<.06	.37	.12	.11	.05
JAN 25...	21	413	363	.56	1.5	<.07	.62	.07	.04	.03
MAR 09...	22	390	384	.53	1.6	<.06	.55	.06	.08	.05
MAY 17...	24	538	534	.73	4.5	.14	1.9	.16	.08	.06
JUL 12...	21	511	481	.70	1.9	.07	1.1	.05	.03	.03
SEP 13...	15	283	228	.38	.16	.06	1.2	.09	.05	.04

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

< Actual value is known to be less than the value shown.

11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)
NOV 16...	1230	4	2	<100	45	<1	<1	<10	<10	2
JAN 25...	1400	1	1	100	100	1	1	10	<10	1
MAY 17...	1330	3	2	<100	77	<1	<3	10	<10	<1
SEP 13...	1300	2	1	100	36	<1	2	<10	<10	1

DATE	TIME	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
NOV 16...		<3	11	2	2000	<10	20	1	40	4	.1
JAN 25...		<1	5	1	2200	30	1	2	40	<10	.1
MAY 17...		<3	6	1	1300	<9	<1	<1	30	<3	<.1
SEP 13...		<1	9	1	1700	17	3	<1	30	4	<.1

DATE	TIME	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 16...		<.1	11	2	1	<1	<1	<1	30	8
JAN 25...		<.1	11	2	1	1	<1	1	10	10
MAY 17...		<.1	11	4	2	2	<1	<1	10	<12
SEP 13...		<.1	22	3	1	<1	<1	<1	20	17

< Actual value is known to be less than the value shown.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM
NOV 16...	1315	105	18.0	51	14	96	98	100	--
JAN 25...	1400	215	11.5	63	37	75	--	--	--
MAR 09...	1300	248	14.5	156	104	86	--	--	--
MAY 17...	1330	233	20.0	55	35	73	--	--	--
JUL 12...	1515	29	26.0	16	1.3	80	--	--	--
SEP 13...	1430	163	22.0	62	27	80	82	94	100

SALINAS RIVER BASIN

11152500 SALINAS RIVER NEAR SPRECKELS, CA

LOCATION.--Lat 36°37'52", long 121°40'17", in Nacional Grant, Monterey County, Hydrologic Unit 18060005, 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 mi² (10,764 km²).

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) National Geodetic Vertical Datum of 1929. 1900-1901, May 10 to July 29, 1940, nonrecording gages at site 0.3 mi (0.5 km) downstream at different datum. July 29, 1940, to May 22, 1969, water-stage recorder at site 0.3 mi (0.5 km) downstream at datum 0.69 ft (0.210 m) lower. May 23, 1969, to Jan. 13, 1970, nonrecording gage at same site and datum. Mar. 17, 1941, to June 30, 1961, supplementary nonrecording gages. July 1, 1961, to May 22, 1969, auxiliary water-stage recorder at site 0.3 mi (0.5 km) downstream at datum 0.69 ft (0.210 m) lower.

REMARKS.--Records fair. Flow partly regulated by Santa Margarita Lake (station 11144500) beginning in 1941, Lake Nacimiento, formerly Nacimiento Reservoir (station 11149300) beginning in February 1957, and San Antonio Reservoir (station 11150100) beginning in December 1965. Large withdrawals from ground water and small surface-water diversions from municipal use and irrigation of about 95,000 acres (384 km²) above station. Low flow represents waste water from Spreckels sugar refinery and Alisal sewage disposal plant.

AVERAGE DISCHARGE.--53 years (water years 1930-82), 415 ft³/s (11.75 m³/s), 300,700 acre-ft/yr (371 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,100 ft³/s (2,350 m³/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, 9,470 ft³/s (268 m³/s) Apr. 11, gage height 14.42 ft (4.395 m); minimum daily, 0.85 ft³/s (0.024 m³/s) Dec. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	3.0	4.2	1.7	199	94	3100	929	112	19	1.9	94
2	2.8	3.1	4.1	5.4	182	160	3130	868	113	22	1.7	96
3	2.9	2.7	3.9	1.3	168	420	3260	823	111	15	1.7	95
4	3.0	2.5	3.7	22	154	300	3310	783	108	8.2	1.6	91
5	2.7	2.8	4.0	1330	141	246	2600	731	106	6.5	1.5	77
6	2.7	3.4	4.0	2830	129	210	2130	690	102	5.4	1.3	74
7	2.9	3.9	3.6	1320	119	200	1780	655	100	19	1.4	81
8	2.6	3.9	2.7	778	109	187	1470	593	103	29	1.4	90
9	2.5	3.7	1.6	540	101	175	1230	505	102	29	1.3	92
10	2.6	20	1.7	396	93	180	1060	455	97	17	1.3	91
11	2.6	28	1.6	291	85	194	4710	413	90	7.1	1.6	89
12	2.2	19	1.6	222	77	182	6890	377	88	3.8	1.0	91
13	2.3	38	1.8	197	75	171	7800	328	80	3.3	.97	94
14	2.3	60	1.7	175	76	159	5770	287	80	3.0	.99	99
15	2.1	455	1.6	147	101	149	4660	257	81	2.9	1.0	101
16	2.0	181	1.5	122	194	165	4040	229	79	2.5	.94	103
17	2.0	98	1.5	103	621	195	3610	208	76	2.3	1.1	104
18	2.1	64	1.5	87	569	315	3350	192	70	2.2	1.0	106
19	2.3	112	1.7	78	230	503	3230	174	67	2.0	1.2	107
20	2.1	50	1.7	113	185	577	3250	160	61	2.0	9.0	105
21	2.1	23	2.1	307	160	673	2840	148	54	1.9	12	107
22	2.4	14	1.5	361	145	621	2020	133	52	2.2	14	108
23	2.6	8.6	1.5	250	132	542	1580	121	53	2.1	26	108
24	2.5	7.0	1.3	195	125	484	1430	112	49	2.1	46	123
25	2.4	5.4	1.1	180	120	430	1270	110	42	2.6	57	157
26	2.4	5.6	1.1	183	113	403	1140	109	32	1.9	62	164
27	3.1	8.5	1.3	196	108	364	1010	107	20	1.7	65	174
28	4.5	5.4	.85	259	100	352	969	102	10	1.8	67	187
29	2.8	4.5	1.3	251	---	374	1080	103	11	1.6	71	196
30	2.7	4.3	2.0	248	---	474	1020	105	14	1.8	80	197
31	2.8	---	1.1	218	---	736	---	106	---	2.2	88	---
TOTAL	79.9	1240.3	64.85	11407.4	4611	10235	84739	10913	2163	223.1	621.90	3401
MEAN	2.58	41.3	2.09	368	165	330	2825	352	72.1	7.20	20.1	113
MAX	4.5	455	4.2	2830	621	736	7800	929	113	29	88	197
MIN	2.0	2.5	.85	1.3	75	94	969	102	10	1.6	.94	74
AC-FT	158	2460	129	22630	9150	20300	168100	21650	4290	443	1230	6750

CAL YR 1981 TOTAL 33059.75 MEAN 90.6 MAX 1810 MIN .85 AC-FT 65570
WTR YR 1982 TOTAL 129699.45 MEAN 355 MAX 7800 MIN .85 AC-FT 257300

11152540 EL TORO CREEK NEAR SPRECKELS, CA

LOCATION.--Lat 36°35'00", long 121°42'50", in El Toro Grant, Monterey County, Hydrologic Unit 18060005, 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 mi² (82.6 km²).

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

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

REMARKS.--Records fair except those for periods of no gage-height record, which are poor. No regulation or diversion above station except for minor stock ponds.

AVERAGE DISCHARGE.--21 years, 1.56 ft³/s (0.044 m³/s), 1,130 acre-ft/yr (1.39 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 626 ft³/s (17.7 m³/s) Jan. 26, 1969, gage height, 5.99 ft (1.826 m), from rating curve extended above 93 ft³/s (2.63 m³/s) on basis of slope-area measurement of maximum flow; no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 20 ft³/s (0.57 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 5	0215	56 1.59	3.74 1.140	Mar. 17	Unknown	Unknown	Unknown
Jan. 21	0500	156 4.42	4.43 1.350	Apr. 2	Unknown	*300 8.50	5.05 1.539
Jan. 24	2130	24 0.68	3.35 1.021	Apr. 11	0030	113 3.20	4.18 1.274
Feb. 16	0900	51 1.44	3.69 1.125				

Minimum daily, 0.01 ft³/s (<0.001 m³/s) Oct. 1-6, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.04	.14	1.3	2.3	3.4	30	.34	.13	.10	.19	.08
2	.01	.04	.13	2.2	1.8	4.3	84	.32	.17	.09	.20	.08
3	.01	.05	.13	.29	1.3	2.5	50	.31	.15	.09	.21	.07
4	.01	.06	.13	6.8	.98	1.3	36	.29	.14	.11	.16	.07
5	.01	.06	.13	25	.61	.77	26	.28	.13	.11	.15	.07
6	.01	.06	.13	8.1	.45	.55	24	.27	.14	.11	.14	.08
7	.03	.06	.12	3.0	.40	.50	18	.26	.16	.11	.12	.07
8	.02	.05	.12	2.6	.35	.47	14	.25	.14	.08	.13	.08
9	.01	.06	.12	.90	.28	.45	12	.24	.15	.09	.14	.07
10	.03	.06	.12	.31	.28	1.6	24	.23	.13	.09	.12	.10
11	.04	.06	.13	.31	.29	2.1	46	.23	.14	.08	.12	.24
12	.02	2.3	.13	.10	.29	1.6	21	.22	.14	.09	.13	.07
13	.02	3.1	.13	.09	.63	1.0	14	.21	.14	.08	.14	.08
14	.02	.31	.13	.09	.72	3.0	11	.21	.14	.08	.12	.10
15	.02	.12	.13	.09	9.2	3.6	8.4	.20	.12	.09	.11	.10
16	.02	.10	.13	.08	31	5.0	6.0	.20	.13	.08	.09	.10
17	.02	.96	.13	.08	11	10	4.6	.19	.11	.08	.08	.08
18	.02	.11	.15	.07	7.8	20	3.4	.19	.13	.06	.10	.07
19	.02	.11	.15	1.8	4.4	15	2.7	.18	.15	.08	.11	.05
20	.03	.10	.22	14	3.6	9.6	2.1	.18	.13	.08	.10	.06
21	.03	.11	.40	87	3.0	5.2	1.7	.18	.10	.08	.09	.06
22	.02	.12	.16	30	2.4	3.0	1.4	.22	.27	.13	.08	.07
23	.02	.11	.16	14	1.8	7.6	1.1	.25	.12	.11	.09	.18
24	.03	.33	.16	18	1.5	6.2	.88	.16	.12	.14	.09	.38
25	.03	.12	.17	16	1.2	5.4	.74	.26	.07	.12	.10	1.0
26	.03	1.2	.18	10	.80	5.0	.62	.20	.06	.14	.09	.14
27	.10	3.5	.50	8.3	.60	4.7	.52	.10	.07	.16	.07	.12
28	2.1	.22	.16	9.7	.48	4.3	.43	.09	.05	.16	.06	.09
29	.08	.17	1.3	6.2	---	4.0	.38	.10	.18	.17	.06	.09
30	.06	.15	.43	3.9	---	15	.35	.08	.09	.16	.07	.07
31	.05	---	.20	3.1	---	23	---	.11	---	.18	.07	---
TOTAL	2.93	13.84	6.52	273.41	89.46	170.14	445.32	6.55	3.90	3.37	3.53	3.92
MEAN	.095	.46	.21	8.82	3.20	5.49	14.8	.21	.13	.11	.11	.13
MAX	2.1	3.5	1.3	87	31	23	84	.34	.27	.18	.21	1.0
MIN	.01	.04	.12	.07	.28	.45	.35	.08	.05	.06	.06	.05
AC-FT	5.8	27	13	542	177	337	883	13	7.7	6.7	7.0	7.8

CAL YR 1981 TOTAL 164.20 MEAN .45 MAX 23 MIN 0 AC-FT 326
WTR YR 1982 TOTAL 1022.89 MEAN 2.80 MAX 87 MIN .01 AC-FT 2030

NOTE.--No gage-height record Mar. 16 to Apr. 5, Apr. 13 to May 21, Aug. 27-29.

TEMLADERO SLOUGH BASIN

11152600 GABILAN CREEK NEAR SALINAS, CA

LOCATION.--Lat 36°45'21", long 121°36'34", in La Natividad Grant, Monterey County, Hydrologic Unit 18060011, on left bank at downstream side of county road bridge, 0.3 mi (0.5 km) downstream from small left-bank tributary, and 6.2 mi (10.0 km) northeast of Salinas.

DRAINAGE AREA.--36.7 mi² (95.1 km²).

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.--Records fair except those for periods of no gage height record, Dec. 17 to Jan. 7, Feb. 9, 10, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--12 years, 3.90 ft³/s (0.110 m³/s), 2,830 acre-ft/yr (3.49 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 800 ft³/s (22.7 m³/s) Apr. 1, 1974, gage height, 11.13 ft (3.392 m), from rating curve extended above 260 ft³/s (7.36 m³/s) on basis of slope-area measurement of maximum flow; no flow for most of each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 60 ft³/s (1.70 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 5	Unknown	*Unknown	Unknown	Mar. 31	2115	139	3.07
Jan. 21	0100	86	2.44	Apr. 3	1415	117	2.76
Feb. 16	0830	196	5.55	Apr. 11	0015	98	2.75

Minimum, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	11	5.0	21	92	18	5.0	3.3	.51	0
2	0	0	0	19	4.9	31	97	18	5.5	2.5	.50	0
3	0	0	0	2.5	4.1	22	101	16	5.4	1.9	.69	0
4	0	0	0	100	2.7	17	97	15	4.9	1.7	.40	0
5	0	0	0	190	1.7	15	94	14	5.4	1.8	.28	0
6	0	0	0	60	1.3	13	87	13	5.0	1.8	.27	0
7	0	0	0	29	.84	12	78	15	5.0	1.7	.16	0
8	0	0	0	16	.87	11	69	15	3.8	1.5	.17	0
9	0	0	0	9.4	.91	10	61	12	3.5	1.6	.50	0
10	0	0	0	5.5	1.0	15	63	13	3.9	1.3	.48	0
11	0	0	0	4.9	.68	17	77	12	3.7	1.7	.18	0
12	0	.03	0	3.7	.51	13	61	11	4.1	1.1	.31	0
13	0	.13	0	2.6	.87	11	55	10	3.8	.93	.41	0
14	0	0	0	1.5	3.1	18	53	9.3	3.8	1.3	.21	0
15	0	0	0	.75	.46	18	50	9.2	3.3	2.2	.07	0
16	0	0	0	.19	147	30	46	9.4	3.1	1.3	.07	0
17	0	.15	.04	.46	103	42	41	9.0	3.0	1.1	0	0
18	0	0	.07	.09	80	42	38	8.9	3.2	1.1	.08	0
19	0	0	.10	4.4	63	43	35	8.6	3.3	.99	.04	0
20	0	0	2.0	35	50	33	32	7.7	3.6	.66	0	0
21	0	0	3.5	54	35	28	28	8.0	3.4	.60	0	0
22	0	0	1.8	21	27	25	26	8.0	3.6	.65	0	0
23	0	0	1.4	12	22	24	24	7.8	3.4	.80	0	0
24	0	0	1.4	8.0	19	22	23	8.0	3.0	.92	0	0
25	0	0	1.5	7.1	16	19	23	7.9	2.5	1.0	0	.34
26	0	0	1.6	12	14	18	23	7.6	2.5	.88	0	.02
27	0	.12	4.5	10	13	16	21	7.2	2.4	.68	0	0
28	.01	0	1.8	17	12	21	19	6.6	2.3	.57	0	0
29	0	0	11	14	---	53	21	6.3	3.7	.67	0	0
30	0	0	6.0	11	---	64	22	5.6	4.0	.71	0	0
31	0	---	2.0	7.8	---	76	---	5.3	---	.70	0	---
TOTAL	.01	.43	38.71	669.89	675.48	800	1557	322.4	113.1	39.66	5.33	.36
MEAN	.0003	.014	1.25	21.6	24.1	25.8	51.9	10.4	3.77	1.28	.17	.012
MAX	.01	.15	11	190	147	76	101	18	5.5	3.3	.69	.34
MIN	0	0	0	.09	.51	10	19	5.3	2.3	.57	0	0
AC-FT	.02	.9	77	1330	1340	1590	3090	639	224	79	11	.7

CAL YR 1981 TOTAL 347.03 MEAN .95 MAX 125 MIN 0 AC-FT 688
WTR YR 1982 TOTAL 4222.37 MEAN 11.6 MAX 190 MIN 0 AC-FT 8380

11152650 RECLAMATION DITCH NEAR SALINAS, CA

LOCATION.--Lat 36°42'18", long 121°42'14", in Rincon Del Zanjon Grant, Monterey County, Hydrologic Unit 18060011, on right bank at upstream side of San Jon Road bridge, and 3.4 mi (5.5 km) northwest of Salinas.

DRAINAGE AREA.--53.2 mi² (138 km²).

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.

AVERAGE DISCHARGE.--12 years, 14.8 ft³/s (0.419 m³/s), 10,720 acre-ft/yr (13.2 hr³/yr).

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 473 ft³/s (13.4 m³/s) Apr. 2, 1974; no flow Dec. 4, 10, 11, 1978.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	1.8	6.8	43	12	37	273	20	5.9	9.8	5.5	6.1
2	5.1	.67	3.9	76	11	38	286	18	7.0	7.7	5.7	6.6
3	8.6	4.2	3.6	54	10	25	240	16	6.8	5.9	4.1	7.2
4	3.4	5.2	2.2	119	9.5	15	197	17	9.2	3.2	5.9	6.8
5	1.1	4.4	2.1	327	8.0	12	148	17	9.1	2.0	6.8	4.3
6	3.5	4.6	1.3	275	6.7	12	112	17	6.9	4.2	6.1	2.4
7	13	2.4	1.1	190	5.2	11	86	15	5.1	10	5.7	3.2
8	7.4	.78	2.6	121	3.9	10	76	13	6.6	7.8	6.5	5.8
9	3.2	.35	3.4	72	3.1	18	67	13	7.8	5.4	6.7	6.0
10	3.6	3.3	3.5	45	2.9	22	75	11	7.2	5.4	7.5	6.3
11	2.3	3.7	2.8	30	2.4	13	114	14	9.4	5.6	8.3	6.7
12	.30	28	2.9	25	2.4	10	103	12	7.5	4.8	7.0	4.8
13	2.8	152	1.1	22	7.6	18	81	14	5.8	6.0	3.7	3.5
14	3.5	147	.80	14	14	14	71	13	6.7	6.9	3.4	6.1
15	3.7	87	2.1	8.5	60	46	66	13	6.8	6.6	6.9	7.1
16	2.2	48	3.1	6.4	166	68	59	9.2	9.2	8.2	9.0	6.4
17	1.9	88	1.8	5.4	196	70	50	7.9	6.7	6.2	10	4.9
18	1.0	63	2.6	5.0	148	75	45	11	6.8	5.3	6.0	9.4
19	.65	22	3.7	17	102	63	41	12	6.7	4.3	5.4	9.8
20	2.9	13	36	63	69	44	39	9.9	5.9	6.9	8.0	7.7
21	3.6	9.3	45	143	46	36	36	9.1	3.6	7.4	9.3	5.0
22	4.0	12	22	128	33	12	33	8.5	6.2	6.8	10	6.5
23	3.6	4.6	6.2	83	24	30	31	7.1	6.0	5.6	11	8.8
24	2.9	32	4.9	52	21	24	29	6.3	5.7	5.3	9.1	9.5
25	1.2	11	2.1	34	16	22	29	7.5	5.7	3.8	6.0	9.8
26	.29	16	1.7	28	15	22	25	7.9	5.4	4.4	7.4	9.1
27	3.1	84	4.5	23	14	21	24	7.9	6.0	6.4	7.0	6.8
28	93	73	2.1	35	26	35	24	7.7	5.3	5.7	6.3	4.2
29	35	33	39	31	---	76	23	7.3	11	5.7	4.3	7.5
30	10	9.7	86	21	---	114	21	5.8	10	4.0	2.6	8.0
31	5.6	---	56	15	---	139	---	5.1	---	6.9	5.2	---
TOTAL	236.64	964.00	356.90	2111.3	1034.7	1152	2504	353.2	208.0	184.2	206.4	196.3
MEAN	7.63	32.1	11.5	68.1	37.0	37.2	83.5	11.4	6.93	5.94	6.66	6.54
MAX	93	152	86	327	196	139	286	20	11	10	11	9.8
MIN	.29	.35	.80	5.0	2.4	10	21	5.1	3.6	2.0	2.6	2.4
AC-FT	469	1910	708	4190	2050	2280	4970	701	413	365	409	389
CAL YR 1981	TOTAL	3886.11	MEAN 10.6	MAX 152	MIN .29	AC-FT	7710					
WTR YR 1982	TOTAL	9507.64	MEAN 26.0	MAX 327	MIN .29	AC-FT	18860					

PAJARO RIVER BASIN

11152900 CEDAR CREEK NEAR BELL STATION, CA

LOCATION.--Lat 37°03'00", long 121°19'35", in San Luis Gonzaga Grant, Santa Clara County, Hydrologic Unit 18060002, 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 mi² (33.2 km²).

PERIOD OF RECORD.--October 1961 to September 1982 (discontinued).

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

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

AVERAGE DISCHARGE.--21 years, 4.40 ft³/s (0.125 m³/s), 3,190 acre-ft/yr (3.93 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,490 ft³/s (98.8 m³/s) Jan. 31, 1963, gage height, 6.85 ft (2.088 m), from rating curve extended above 560 ft³/s (15.9 m³/s) on basis of slope-area measurement at gage height 4.66 ft (1.420 m); no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s (4.25 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Nov. 13	2330	175	4.96	2.72	0.829	Feb. 16	0315	812	23.0	4.23	1.289
Jan. 4	2400	*1,150	32.6	4.74	1.445	Mar. 31	1200	415	11.8	3.43	1.045
Jan. 20	1430	204	5.78	2.82	.860	Apr. 11	0400	411	11.6	3.42	1.042

Minimum, no flow Oct. 1, 2, 6, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.03	1.2	25	3.9	6.7	119	3.6	.81	.22	.09	.02
2	0	.03	.94	52	3.4	16	54	3.4	.72	.22	.10	.02
3	.01	.03	.77	18	3.1	10	97	3.3	.72	.20	.10	.02
4	.01	.03	.71	377	2.7	6.4	61	3.1	.69	.17	.10	.01
5	.01	.04	.62	277	2.3	5.1	37	3.1	.67	.16	.09	.01
6	0	.06	.57	42	2.1	4.3	26	2.5	.62	.16	.09	.01
7	.01	.04	.53	20	1.9	3.9	19	2.5	.62	.15	.08	.01
8	.02	.04	.50	12	1.8	3.7	15	2.5	.53	.15	.08	.04
9	.02	.04	.47	8.7	1.6	3.4	12	2.5	.53	.15	.08	.05
10	.02	.04	.45	6.8	1.6	4.3	81	2.5	.50	.15	.08	.05
11	.03	.04	.43	5.5	1.4	9.2	252	2.4	.45	.17	.07	.05
12	.03	.22	.41	4.5	1.3	9.0	79	2.3	.45	.18	.06	.04
13	.04	17	.39	3.7	2.0	5.9	41	2.3	.45	.18	.06	.04
14	.04	21	.37	3.4	17	8.4	29	2.2	.43	.17	.06	.02
15	.05	1.1	.35	3.0	230	7.7	21	2.1	.38	.17	.06	.02
16	.05	.91	.33	2.7	289	13	17	1.9	.37	.14	.05	.02
17	.05	8.0	.32	2.5	53	33	14	1.8	.38	.14	.05	.03
18	.04	3.0	.31	2.3	26	23	11	1.7	.38	.13	.04	.03
19	.01	1.2	.30	3.0	16	20	9.4	1.6	.36	.12	.04	.03
20	0	.78	.29	101	11	14	8.3	1.5	.31	.12	.04	.05
21	.01	.69	30	81	8.8	11	7.2	1.4	.27	.10	.03	.02
22	.01	.64	10	34	7.0	8.8	6.5	1.4	.27	.12	.03	.01
23	.01	.71	6.0	16	5.7	7.3	5.8	1.3	.27	.12	.03	.02
24	.02	2.4	3.5	11	4.9	6.2	5.3	1.1	.26	.12	.04	.08
25	.02	2.3	2.0	8.0	4.3	5.4	4.8	1.1	.22	.13	.07	.07
26	.01	1.5	1.4	8.6	3.9	6.0	4.6	.97	.22	.13	.04	.05
27	.02	6.2	1.1	7.1	3.6	5.1	4.4	.97	.22	.13	.03	.05
28	.18	5.7	.85	7.6	3.4	7.8	4.1	.97	.22	.11	.03	.04
29	.07	2.9	21	7.0	---	44	3.9	.97	.28	.11	.03	.04
30	.04	1.6	41	5.4	---	35	3.6	.90	.26	.11	.02	.05
31	.03	---	12	4.6	---	221	---	.84	---	.10	.02	---
TOTAL	.86	78.27	139.11	1160.4	712.7	564.6	1052.9	60.72	12.86	4.53	1.79	1.00
MEAN	.028	2.61	4.49	37.4	25.5	18.2	35.1	1.96	.43	.15	.058	.033
MAX	.18	21	41	377	289	221	252	3.6	.81	.22	.10	.08
MIN	0	.03	.29	2.3	1.3	3.4	3.6	.84	.22	.10	.02	.01
AC-FT	1.7	155	276	2300	1410	1120	2090	120	26	9.0	3.6	2.0

CAL YR 1981 TOTAL 593.39 MEAN 1.63 MAX 78 MIN 0 AC-FT 1180
WTR YR 1982 TOTAL 3789.74 MEAN 10.4 MAX 377 MIN 0 AC-FT 7520

11153000 PACHECO CREEK NEAR DUNNEVILLE, CA

LOCATION.--Lat 36°58'48", long 121°22'45", in Ausaymas y San Felipe Grant, Santa Clara County, Hydrologic Unit 18060002, 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 mi² (378 km²).

PERIOD OF RECORD.--October 1939 to September 1982 (discontinued). 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) National Geodetic Vertical Datum of 1929. 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 hm³). Small diversions above station for irrigation.

AVERAGE DISCHARGE.--43 years, 34.5 ft³/s (0.977 m³/s), 25,000 acre-ft/yr (30.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft³/s (357 m³/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 ft³/s (153 m³/s) on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,060 ft³/s (200 m³/s) Feb. 16, gage height, 15.57 ft (4.746 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.07	0	5.7	162	90	85	1570	13	2.0	7.6	5.8	7.1
2	0	0	4.0	357	81	175	622	12	2.0	7.5	7.5	7.1
3	0	0	2.9	155	77	171	696	12	2.2	7.4	8.4	7.6
4	0	0	2.4	1580	73	120	548	11	2.1	7.4	8.6	7.2
5	0	0	2.1	2090	69	100	330	9.5	2.2	7.3	8.7	6.9
6	0	0	1.8	476	65	86	241	8.7	5.0	7.6	8.7	6.7
7	0	0	1.5	182	63	79	187	8.1	11	7.3	7.9	6.6
8	0	0	1.7	106	61	74	154	7.9	12	7.2	7.7	6.8
9	0	0	1.7	76	59	69	133	7.0	12	7.0	8.5	6.8
10	0	0	.70	61	57	76	300	6.5	10	6.4	8.6	6.6
11	0	0	.29	51	55	95	2730	6.1	7.8	6.3	8.3	6.6
12	0	0	.28	42	53	138	864	5.9	7.8	6.0	8.9	6.7
13	0	.03	.15	35	54	108	356	5.7	7.9	5.8	8.5	6.7
14	0	.29	.04	29	77	114	228	5.5	8.6	5.9	7.2	6.6
15	0	0	0	25	1890	152	166	5.0	9.0	5.4	6.6	6.7
16	0	0	0	23	3480	163	126	4.6	9.4	5.3	6.3	6.8
17	0	0	0	21	650	288	100	4.1	9.7	5.5	6.3	6.7
18	0	0	0	19	323	257	81	3.8	9.5	5.3	6.3	7.0
19	0	0	0	21	219	220	66	3.3	9.4	5.3	7.0	7.0
20	0	0	24	645	167	166	54	3.0	10	5.6	6.5	5.9
21	0	0	173	973	139	139	45	2.8	11	5.3	5.9	5.7
22	0	0	68	307	121	118	38	2.5	10	5.2	5.9	5.4
23	0	0	32	181	107	103	33	2.4	10	5.2	6.2	5.8
24	0	0	18	142	94	91	28	2.2	9.8	5.4	7.2	7.2
25	0	0	12	121	84	83	25	2.2	9.3	5.0	6.8	7.4
26	0	0	8.4	118	79	89	22	2.2	8.6	4.9	6.4	7.0
27	0	0	6.4	115	75	81	20	2.1	8.4	4.9	6.6	6.4
28	0	0	4.8	113	71	91	18	2.1	8.4	4.8	7.0	5.9
29	0	.15	90	119	---	289	17	2.2	8.4	4.9	7.2	5.8
30	0	8.3	342	105	---	370	15	2.3	7.9	4.9	7.2	5.6
31	0	---	142	97	---	1580	---	2.3	---	6.2	7.1	---
TOTAL	.07	8.77	945.86	8547	8433	5770	9813	168.0	241.4	185.8	225.8	198.3
MEAN	.002	.29	30.5	276	301	186	327	5.42	8.05	5.99	7.28	6.61
MAX	.07	8.3	342	2090	3480	1580	2730	13	12	7.6	8.9	7.6
MIN	0	0	0	19	53	69	15	2.1	2.0	4.8	5.8	5.4
AC-FT	.1	17	1880	16950	16730	11440	19460	333	479	369	448	393
CAL YR 1981	TOTAL	5211.13	MEAN 14.3	MAX 920	MIN 0	AC-FT 10340						
WTR YR 1982	TOTAL	34537.00	MEAN 94.6	MAX 3480	MIN 0	AC-FT 68500						

PAJARO RIVER BASIN

11153040 PACHECO CREEK AT DUNNEVILLE, CA

LOCATION.--Lat 36°57'36", long 121°25'01", in San Felipe Grant, San Benito County, Hydrologic Unit 18060002, on right bank at upstream side of San Felipe road bridge, 1.5 mi (2.4 km) north of the town of Dunneville.

DRAINAGE AREA.--154 mi² (399 km²).

PERIOD OF RECORD.--October 1981 to September 1982.

GAGE.--Water-stage recorder. Datum of gage is 170.9 ft (52.089 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by Pacheco Lake 15 mi (24 km) upstream, capacity, 6,150 acre-ft (7.58 hm³). Small diversions above station for irrigation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,090 ft³/s (201 m³/s) Feb. 16, gage height, 14.57 ft (4.441 m); no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	97	75	59	1440	53	0		0	
2			0	224	73	105	594	50	0		0	
3			0	111	54	135	622	47	0		0	
4			0	610	46	105	552	44	0		0	
5			0	2250	43	81	366	41	0		0	
6			0	575	31	68	272	39	0		0	
7			0	240	28	57	210	37	0		0	
8			0	144	25	48	166	35	10		0	
9			0	106	24	43	137	33	25		0	
10			0	77	21	45	227	31	20		0	
11			0	58	18	56	2280	30	.18		0	
12			0	44	13	105	857	29	0		0	
13			0	33	11	79	449	29	0		0	
14			0	26	29	66	326	27	0		.10	
15			0	21	1260	66	254	26	0		0	
16			0	15	3300	82	211	26	0		0	
17			0	2.4	667	167	182	25	0		0	
18			0	.24	361	244	160	24	0		0	
19			0	2.7	244	205	142	23	0		0	
20			0	497	182	152	128	23	0		0	
21			85	773	145	121	114	20	0		0	
22			43	323	121	100	103	20	0		0	
23			17	269	103	82	94	20	0		0	
24			7.1	197	88	67	87	14	0		0	
25			1.1	118	75	57	79	6.7	0		0	
26			0	115	68	58	73	.17	0		0	
27			0	116	63	54	68	0	0		0	
28			0	100	59	57	63	0	0		0	
29			16	110	---	211	60	0	0		0	
30			244	95	---	381	57	0	0		0	
31			98	82	---	1190	---	0	---		0	
TOTAL	0	0	511.2	7431.34	7227	4346	10373	752.87	55.18	0	.10	0
MEAN	0	0	16.5	240	258	140	346	24.3	1.84	0	.003	0
MAX	0	0	244	2250	3300	1190	2280	53	25	0	.10	0
MIN	0	0	0	.24	11	43	57	0	0	0	0	0
AC-FT	0	0	1010	14740	14330	8620	20570	1490	109	0	.2	0

WTR YR 1982 TOTAL 30696.69 MEAN 84.1 MAX 3300 MIN 0 AC-FT 60890

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, Hydrologic Unit 18060002, on left bank upstream of private road bridge 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.--9.63 mi² (24.94 km²).

PERIOD OF RECORD.--October 1971 to September 1982 (discontinued).

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

REMARKS.--Records good. Small diversion above station by pumping.

AVERAGE DISCHARGE.--11 years, 9.58 ft³/s (0.271 m³/s), 6,940 acre-ft/yr (8.56 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 980 ft³/s (27.8 m³/s) Jan. 4, 1982, gage height, 6.86 ft (2.091 m), from rating curve extended above 180 ft³/s (5.10 m³/s) on basis of slope-area measurement at gage height 5.56 ft (1.695 m); maximum gage height, 7.50 ft (2.286 m) Jan. 16, 1978; no flow many days in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s (5.66 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 13	1700	939 26.6	6.71 2.045	Mar. 31	1000	856 24.2	6.41 1.954
Nov. 17	0115	209 5.92	3.84 1.170	Apr. 3	0530	370 10.5	4.48 1.366
Jan. 4	2300	*980 27.8	6.86 2.091	Apr. 11	0315	755 21.4	6.02 1.835

Minimum, no flow several days during October and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.10	6.3	41	22	34	183	19	4.9	2.5	.62	.20
2	0	.10	5.6	53	19	74	127	18	4.9	2.4	.64	.20
3	0	.12	4.9	43	18	46	239	16	4.6	2.2	.72	.15
4	0	.14	4.9	441	17	39	145	16	4.6	2.0	.72	.14
5	0	.17	4.7	397	15	34	103	15	4.4	2.0	.63	.13
6	0	.19	4.4	119	14	31	79	14	4.3	1.9	.57	.10
7	0	.19	4.1	72	14	29	65	14	4.2	1.8	.49	.07
8	0	.19	4.0	56	13	27	55	14	3.8	1.8	.44	.03
9	.03	.27	4.1	49	12	24	49	13	3.7	1.7	.50	.04
10	.06	.26	4.2	41	11	24	145	12	3.6	1.6	.53	.10
11	.08	.30	3.8	35	11	26	395	11	3.6	1.5	.53	.08
12	.10	.55	3.7	30	9.9	24	195	10	3.5	1.5	.52	0
13	.12	213	3.6	26	9.7	21	137	9.9	3.4	1.4	.48	0
14	.06	44	3.4	23	12	21	108	9.7	3.2	1.3	.40	.11
15	.06	29	3.4	20	51	19	86	8.9	3.0	1.3	.41	.19
16	.06	20	3.4	18	98	43	71	8.4	2.9	1.3	.41	.29
17	.05	89	3.1	16	56	48	59	8.3	2.9	1.3	.41	.31
18	.04	39	3.1	15	44	34	52	7.8	2.8	1.2	.41	.30
19	.03	19	3.3	19	37	30	47	7.3	2.8	1.2	.41	.28
20	.03	14	81	76	33	28	44	7.2	2.8	1.2	.42	.20
21	.05	11	39	52	30	26	42	6.9	2.7	1.1	.42	.14
22	.07	9.3	25	38	27	23	39	6.7	2.6	1.0	.42	.11
23	.06	8.1	19	33	23	22	36	6.3	2.5	1.0	.42	.19
24	.06	16	15	31	20	20	34	6.0	2.5	1.0	.42	.53
25	.09	11	13	29	18	18	33	5.7	2.4	1.0	.42	.60
26	.11	9.7	12	30	17	19	30	5.8	2.3	1.0	.43	.55
27	.10	9.1	10	26	15	18	24	5.5	2.3	.99	.36	.36
28	1.6	8.0	9.0	33	14	20	23	5.4	2.3	.92	.34	.30
29	.61	7.4	49	29	---	52	21	5.3	2.7	.81	.32	.28
30	.18	6.9	42	26	---	57	20	4.9	2.7	.76	.30	.26
31	.12	---	34	23	---	443	---	5.0	---	.61	.26	---
TOTAL	3.77	566.08	426.0	1940	680.6	1374	2686	303.0	98.9	43.29	14.37	6.24
MEAN	.12	18.9	13.7	62.6	24.3	44.3	89.5	9.77	3.30	1.40	.46	.21
MAX	1.6	213	81	441	98	443	395	19	4.9	2.5	.72	.60
MIN	0	.10	3.1	15	9.7	18	20	4.9	2.3	.61	.26	0
AC-FT	7.5	1120	845	3850	1350	2730	5330	601	196	86	29	12

CAL YR 1981 TOTAL 2471.36 MEAN 6.77 MAX 213 MIN 0 AC-FT 4900
WTR YR 1982 TOTAL 8142.25 MEAN 22.3 MAX 443 MIN 0 AC-FT 16150

PAJARO RIVER BASIN

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, Hydrologic Unit 18060002, at left end of dam on Llagas Creek, and 2.5 mi (4.0 km) west of Morgan Hill. DRAINAGE AREA, 19.3 mi² (50.0 km²). 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 National Geodetic Vertical Datum of 1929 (levels by South Santa Clara Valley Water Conservation District).

Reservoir is formed by earthfill and rockfill dam completed in 1955. Capacity, 8,090 acre-ft (9.97 hm³) between elevations 465 ft (141.7 m), elevation of outlet gates, and 525 ft (160.0 m), crest of spillway. Reservoir is used for flood control and water released down Llagas Creek for irrigation. Record of contents furnished by Santa Clara Valley Water District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 8,520 acre-ft (10.5 hm³) Feb. 19, 1980, elevation, 526.5 ft (160.47 m); maximum elevation, 527.4 ft (160.75 m) Feb. 24, 1969; no contents at times in 1957, 1960-62, 1973, 1977.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 8,430 acre-ft (10.4 hm³) Mar. 31, elevation, 526.2 ft (160.40 m); minimum observed, 1,090 acre-ft (1.34 hm³) Nov. 13, elevation 485.0 ft (147.83 m).

11154020 UVAS RESERVOIR.--Lat 37°04'02", long 121°41'25", in Las Uvas Grant, Santa Clara County, Hydrologic Unit 18060002, at center of dam on Uvas Creek, and 4.8 mi (7.7 km) southwest of Morgan Hill. DRAINAGE AREA, 30.4 mi² (78.7 km²). 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 National Geodetic Vertical Datum of 1929 (levels by South Santa Clara Valley Water Conservation District).

Reservoir is formed by earthfill and rockfill dam completed in 1957. Capacity, 10,000 acre-ft (12.3 hm³) between elevations 410 ft (125.0 m), hydraulic gate valves, and 487.5 ft (148.59 m), crest of spillway. Water released down Uvas Creek for irrigation; at times diverted into Llagas Creek 3.6 mi (5.8 km) below Chesbro Reservoir for ground-water recharge by percolation. Record of contents furnished by Santa Clara Valley Water District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 11,030 acre-ft (13.6 hm³) Mar. 16, 1967, elevation, 490.5 ft (149.50 m); no contents at times in 1961, 1976, and 1977.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 10,540 acre-ft (13.0 hm³) Feb. 16, elevation, 489.7 ft (149.26 m); minimum observed, 1,410 acre-ft (1.74 hm³) Nov. 13, elevation 440.5 ft (134.27 m).

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY
STORAGE ABOVE SPILLWAY CREST), AT 2400, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Chesbro Reservoir	Uvas Reservoir
Sept. 30, 1981..	1,310	2,220
Oct. 31.....	1,180	1,650
Nov. 30.....	2,420	3,900
Dec. 31.....	3,290	7,620
Jan. 31, 1982...	6,720	9,980
Feb. 28.....	6,900	9,980
Mar. 31.....	8,090	9,980
Apr. 30.....	8,090	9,980
May 31.....	8,090	9,980
June 30.....	8,090	9,810
July 31.....	7,290	8,760
Aug. 31.....	6,120	7,430
Sept 30.....	5,730	5,670

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, Hydrologic Unit 18060002, 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 mi² (54.4 km²).

PERIOD OF RECORD.--July 1961 to September 30, 1982 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 486.47 ft (148.276 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--21 years, 28.3 ft³/s (0.801 m³/s), 20,500 acre-ft/yr (25.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,580 ft³/s (186 m³/s) Oct. 13, 1962, gage height, 13.18 ft (4.017 m); no flow at times in 1961, 1964, 1976-77.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft³/s (22.7 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Nov. 13	1730	3,040	86.1	9.68	2.950	Jan. 20	1200	817	23.1	6.17	1.881
Nov. 16	2130	1,190	33.7	6.92	2.109	Feb. 16	0145	2,330	66.0	8.76	2.670
Dec. 20	0430	2,090	59.2	8.41	2.563	Mar. 31	1015	2,490	70.5	8.97	2.734
Dec. 29	1715	1,270	36.0	7.08	2.158	Apr. 3	0530	2,290	64.9	8.70	2.652
Jan. 4	1915	*5,200	147	11.99	3.655	Apr. 11	0330	3,490	98.9	10.22	3.115

Minimum daily, 0.29 ft³/s (0.008 m³/s) Oct. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	1.1	14	193	53	94	583	33	11	9.2	2.3	1.2
2	.34	1.0	13	191	48	273	418	31	10	8.6	2.4	1.1
3	.29	1.1	11	118	43	121	1260	29	10	8.0	2.7	1.1
4	.47	1.0	10	2660	40	87	486	28	10	7.4	2.7	1.1
5	.48	1.1	9.4	1870	37	71	305	27	9.7	7.2	2.3	1.1
6	.51	1.1	8.8	428	35	62	218	26	9.5	7.2	2.0	.83
7	.74	1.0	8.3	227	33	55	168	25	9.1	6.6	1.7	.82
8	.62	.90	8.3	161	32	49	138	24	8.7	6.5	1.6	.75
9	.61	1.1	8.7	124	30	45	115	23	8.3	6.0	1.8	.81
10	.71	1.1	9.8	101	29	48	596	22	8.0	5.8	1.9	.62
11	.57	1.2	8.1	84	28	54	1780	22	7.9	5.5	1.9	.68
12	.67	3.0	8.2	68	26	47	599	20	7.8	5.5	1.9	1.0
13	.75	714	7.8	57	27	41	333	21	7.5	5.0	1.7	.86
14	.62	85	7.3	50	55	41	246	20	7.2	4.8	1.5	.83
15	.62	71	7.1	45	634	38	194	20	6.8	4.8	1.5	1.1
16	.68	152	6.8	41	989	84	159	19	6.6	4.8	1.5	1.1
17	.52	112	6.3	38	251	123	133	19	6.5	4.8	1.5	1.1
18	.67	28	6.3	36	149	83	110	18	6.4	4.5	1.5	1.0
19	.63	17	6.7	51	104	69	94	17	6.3	4.4	1.5	1.1
20	.53	14	852	329	84	61	82	16	6.2	4.4	1.5	.93
21	.60	13	153	181	75	54	72	16	6.1	4.1	1.5	.90
22	.58	14	69	99	64	48	63	15	5.9	3.7	1.5	.85
23	.51	70	45	78	55	43	56	14	5.7	3.6	1.5	.97
24	.55	65	36	71	50	40	51	14	5.5	3.6	1.5	2.1
25	.61	27	31	63	45	38	46	13	5.4	3.6	1.5	2.1
26	1.0	28	27	78	41	39	43	13	5.2	3.6	1.5	2.0
27	14	32	23	65	39	37	40	12	5.1	3.5	1.4	1.4
28	10	23	19	96	37	45	37	12	5.0	3.3	1.3	1.3
29	3.0	18	331	83	---	295	35	11	6.2	3.0	1.3	1.2
30	1.6	15	189	68	---	217	34	11	9.8	2.7	1.1	1.2
31	1.3	---	141	60	---	1640	---	11	---	2.2	1.2	---
TOTAL	45.08	1512.70	2081.9	7814	3133	4042	8494	602	223.4	157.9	52.7	33.15
MEAN	1.45	50.4	67.2	252	112	130	283	19.4	7.45	5.09	1.70	1.11
MAX	14	714	852	2660	989	1640	1780	33	11	9.2	2.7	2.1
MIN	.29	.90	6.3	36	26	37	34	11	5.0	2.2	1.1	.62
AC-FT	89	3000	4130	15500	6210	8020	16850	1190	443	313	105	66

CAL YR 1981 TOTAL 7827.79 MEAN 21.4 MAX 852 MIN .19 AC-FT 15530
WTR YR 1982 TOTAL 28191.83 MEAN 77.2 MAX 2660 MIN .29 AC-FT 55920

PAJARO RIVER BASIN

11154100 BODFISH CREEK NEAR GILROY, CA

LOCATION.--Lat 37°00'15", long 121°39'58", in Las Animas Grant, Santa Clara County, Hydrologic Unit 18060002, 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 mi² (19.17 km²).

PERIOD OF RECORD.--October 1959 to September 1982 (discontinued).

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.--23 years, 3.83 ft³/s (0.108 m³/s), 2,770 acre-ft/yr (3.42 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,240 ft³/s (35.1 m³/s) Jan. 31, 1963, gage height, 8.25 ft (2.515 m), from rating curve extended above 580 ft³/s (16.4 m³/s); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s (4.25 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 20	1000	227 6.43	5.16 1.573	Mar. 31	1630	201 5.69	4.98 1.518
Dec. 29	1630	252 7.14	5.32 1.622	Apr. 3	0745	251 7.11	5.31 1.618
Jan. 4	1800	*1,180 33.4	8.86 2.701	Apr. 11	1145	261 7.39	5.37 1.637
Feb. 17	0300	620 17.6	7.06 2.152				

Minimum, no flow several days during October.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.07	1.0	36	16	35	85	6.8	3.2	2.6	.82	.48
2	0	.07	.89	30	15	82	82	6.3	3.1	2.4	.86	.41
3	0	.09	.72	17	14	55	140	6.1	3.1	2.2	.93	.39
4	0	.10	.60	462	13	42	86	5.8	3.0	2.1	.97	.39
5	0	.09	.53	173	12	34	47	5.7	3.0	2.0	.86	.39
6	0	.07	.47	50	11	25	31	5.5	2.8	1.9	.78	.38
7	0	.07	.45	32	10	20	25	5.2	2.8	1.9	.67	.37
8	0	.07	.43	23	9.7	16	20	5.0	2.8	1.8	.59	.38
9	.02	.06	.44	15	9.2	14	17	4.8	2.8	1.7	.64	.38
10	.05	.07	.55	12	8.5	12	70	4.6	2.8	1.6	.68	.39
11	.06	.07	.53	9.5	8.1	11	156	4.5	2.6	1.6	.70	.38
12	.07	.66	.51	7.4	7.7	10	98	4.3	2.5	1.5	.69	.35
13	.09	12	.54	6.6	7.4	9.5	62	4.3	2.7	1.4	.65	.38
14	.05	4.9	.51	6.2	10	8.9	45	4.3	2.6	1.4	.56	.38
15	.04	1.8	.45	6.7	30	8.4	36	4.2	2.5	1.4	.56	.38
16	.04	1.3	.45	7.1	199	16	30	4.2	2.5	1.4	.56	.42
17	.04	13	.45	7.4	181	21	26	4.1	2.6	1.3	.56	.41
18	.03	2.4	.47	13	45	15	23	4.0	2.7	1.3	.56	.37
19	.02	1.1	.56	24	39	13	20	4.0	2.7	1.3	.56	.35
20	.02	.75	91	57	35	12	17	4.0	2.7	1.2	.57	.34
21	.04	1.2	19	37	31	11	15	3.8	2.7	1.2	.57	.33
22	.05	2.3	8.4	28	29	10	13	4.6	2.9	1.1	.57	.32
23	.04	2.0	5.4	25	26	9.5	12	4.2	2.9	1.1	.57	.37
24	.04	15	3.9	23	24	8.7	11	4.1	2.9	1.1	.57	.69
25	.06	3.7	3.1	22	20	8.1	9.8	3.9	2.7	1.0	.57	.78
26	.08	3.9	2.6	23	18	8.4	9.0	4.0	2.6	1.0	.54	.53
27	.07	5.0	2.3	20	17	8.2	8.3	4.1	2.7	1.0	.51	.35
28	1.2	3.1	2.0	25	16	12	7.7	3.7	3.0	.95	.51	.32
29	.29	1.9	71	22	---	20	7.2	3.7	3.4	.87	.50	.31
30	.14	1.4	45	19	---	40	7.1	3.5	3.2	.80	.50	.31
31	.09	---	26	17	---	175	---	3.2	---	.80	.49	---
TOTAL	2.63	78.24	290.25	1255.9	861.6	770.7	1216.1	140.5	84.5	44.92	19.67	12.03
MEAN	.085	2.61	9.36	40.5	30.8	24.9	40.5	4.53	2.82	1.45	.63	.40
MAX	1.2	15	91	462	199	175	156	6.8	3.4	2.6	.97	.78
MIN	0	.06	.43	6.2	7.4	8.1	7.1	3.2	2.5	.80	.49	.31
AC-FT	5.2	155	576	2490	1710	1530	2410	279	168	89	39	24

CAL YR 1981 TOTAL 869.57 MEAN 2.38 MAX 91 MIN 0 AC-FT 1720
WTR YR 1982 TOTAL 4777.04 MEAN 13.1 MAX 462 MIN 0 AC-FT 9480

11154200 UVAS CREEK NEAR GILROY, CA

LOCATION.--Lat 36°59'32", long 121°34'21", in Las Animas Grant, Santa Clara County, Hydrologic Unit 18060002, 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 mi² (184.4 km²).

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 fair. Flow regulated by Uvas Reservoir (station 11154020) 10 mi (16 km) upstream. Diversion above station for irrigation.

AVERAGE DISCHARGE.--23 years, 38.3 ft³/s (1.085 m³/s), 27,890 acre-ft/yr (34.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,490 ft³/s (269 m³/s) Feb. 1, 1963, gage height, 17.6 ft (5.383 m), from rating curve extended above 3,300 ft³/s (93.5 m³/s); no flow for many days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,370 ft³/s (237 m³/s) Jan. 5, gage height, 20.21 ft (6.160 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.18	263	110	191	983	75	11	.93	5.4	0
2		0	0	267	98	347	540	69	9.8	.53	5.6	0
3		0	0	150	92	315	1100	63	8.6	.40	1.8	0
4		0	0	2460	87	241	766	59	8.8	.30	3.0	0
5		0	0	4060	72	213	470	56	8.7	.28	3.1	0
6		0	0	1040	61	192	347	54	7.0	.20	2.7	0
7		0	0	617	56	181	282	52	4.0	.18	2.3	0
8		0	0	425	52	175	240	50	2.7	.29	2.1	0
9		0	0	319	47	164	209	48	1.7	.22	2.5	0
10		0	0	251	45	164	257	46	1.3	.13	.29	0
11		0	0	205	43	186	1520	44	1.1	.06	0	0
12		0	0	175	40	172	917	42	.88	.05	0	0
13		0	0	142	42	156	539	38	.61	.03	0	0
14		0	0	120	75	156	400	39	.54	0	0	0
15		0	0	105	853	148	325	37	.30	.01	0	0
16		0	0	93	1860	197	272	35	.08	0	0	0
17		9.5	0	84	684	290	233	32	0	0	0	0
18		5.4	0	77	487	263	202	29	0	0	0	0
19		.14	0	92	395	227	178	27	0	0	0	0
20		0	412	537	345	209	172	25	0	0	0	0
21		0	211	567	312	192	159	23	.03	0	0	0
22		0	84	323	278	180	143	22	.06	0	0	0
23		0	50	235	245	168	131	22	.09	0	0	0
24		36	34	189	226	161	120	20	.13	0	0	0
25		18	25	163	206	156	111	16	.12	0	0	0
26		9.9	20	176	196	158	104	15	.12	0	0	.41
27		15	17	163	181	152	96	13	.12	0	0	.90
28		9.7	12	173	164	167	90	12	.13	0	0	1.2
29		4.6	214	169	---	367	84	10	.22	.31	0	.98
30		1.6	431	137	---	420	79	11	.42	8.1	0	1.1
31		---	155	121	---	1300	---	12	---	5.4	0	---
TOTAL	0	109.84	1665.18	13898	7352	7608	11069	1096	68.55	17.42	28.79	4.59
MEAN	0	3.66	53.7	448	263	245	369	35.4	2.29	.56	.93	.15
MAX	0	36	431	4060	1860	1300	1520	75	11	8.1	5.6	1.2
MIN	0	0	0	77	40	148	79	10	0	0	0	0
AC-FT	0	218	3300	27570	14580	15090	21960	2170	136	35	57	9.1
CAL YR 1981	TOTAL	6812.37	MEAN	18.7	MAX	610	MIN	0	AC-FT	13510		
WTR YR 1982	TOTAL	42917.37	MEAN	118	MAX	4060	MIN	0	AC-FT	85130		

PAJARO RIVER BASIN

11156500 SAN BENITO RIVER NEAR WILLOW CREEK SCHOOL, CA

LOCATION.--Lat 36°36'34", long 121°12'07", in SESEK sec.21, T.15 S., R.7 E., San Benito County, Hydrologic Unit 18060002, 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 mi² (645 km²).

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) National Geodetic Vertical Datum of 1929. 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 good. Flow regulated by Hernandez Reservoir 40 mi (64 km) upstream beginning in December 1961, capacity, 18,700 acre-ft (23.1 hm³). Small diversion above station for irrigation.

AVERAGE DISCHARGE.--43 years, 25.0 ft³/s (0.708 m³/s), 18,110 acre-ft/yr (22.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,210 ft³/s (232 m³/s) Apr. 3, 1958, gage height, 8.35 ft (2.545 m), site and datum then in use, from rating curve extended above 600 ft³/s (17.0 m³/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, 838 ft³/s (23.7 m³/s) Apr. 11, gage height, 7.36 ft (2.243 m); minimum daily, 0.22 ft³/s (0.006 m³/s) Oct. 20, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.27	2.6	16	5.3	10	7.7	192	8.1	22	38	60	63
2	.26	2.1	19	13	8.8	10	106	7.8	23	39	63	63
3	.29	1.8	17	10	8.4	12	72	6.6	25	39	62	61
4	.28	1.6	17	16	8.2	9.2	55	6.1	27	38	61	61
5	.26	1.6	16	39	7.4	8.0	48	5.7	32	38	62	61
6	.27	2.8	15	30	7.3	7.3	46	5.6	33	42	62	60
7	.29	2.3	14	17	7.2	6.8	44	5.8	33	43	62	60
8	.27	1.9	11	14	6.8	6.8	40	5.9	31	43	60	59
9	.24	1.7	10	13	6.3	6.9	37	6.7	32	43	60	58
10	.27	1.4	10	12	5.8	8.5	44	7.0	32	42	61	58
11	.25	1.3	9.9	10	6.0	9.7	292	6.6	32	41	61	59
12	.24	2.5	9.2	9.7	6.1	10	142	6.3	32	40	61	58
13	.26	13	8.1	9.5	6.2	8.8	70	8.6	31	40	60	59
14	.25	28	7.4	9.2	7.2	12	48	18	31	39	60	59
15	.23	15	6.6	8.3	13	14	39	20	30	39	60	59
16	.25	8.1	5.7	8.3	48	17	32	20	29	39	60	61
17	.24	9.8	4.6	7.8	30	33	27	20	29	45	60	61
18	.23	10	4.1	7.7	17	58	24	21	30	55	60	61
19	.23	9.4	4.2	8.5	13	55	21	22	33	59	61	53
20	.22	8.6	4.0	23	10	37	19	21	31	61	62	46
21	.22	8.5	4.9	43	9.0	28	17	21	29	60	62	45
22	.23	8.0	4.6	23	8.1	23	15	23	29	59	61	44
23	.23	7.4	4.2	18	7.5	20	14	23	29	60	60	42
24	.23	7.1	4.0	17	7.0	17	13	23	28	63	61	47
25	.24	7.6	3.7	21	6.7	16	13	23	29	67	60	49
26	.23	10	3.6	19	6.5	17	12	23	29	62	61	50
27	.23	24	3.4	19	6.5	16	11	21	29	62	63	43
28	.43	36	3.2	16	6.3	16	8.0	21	31	62	62	43
29	4.1	21	4.8	14	---	24	7.4	21	34	62	62	44
30	4.7	17	9.0	12	---	34	8.0	21	39	61	62	43
31	3.3	---	5.6	11	---	59	---	21	---	59	62	---
TOTAL	19.24	272.1	259.8	484.3	290.3	607.7	1516.4	469.8	904	1540	1894	1630
MEAN	.62	9.07	8.38	15.6	10.4	19.6	50.5	15.2	30.1	49.7	61.1	54.3
MAX	4.7	36	19	43	48	59	292	23	39	67	63	63
MIN	.22	1.3	3.2	5.3	5.8	6.8	7.4	5.6	22	38	60	42
AC-FT	38	540	515	961	576	1210	3010	932	1790	3050	3760	3230
CAL YR 1981	TOTAL	5473.72	MEAN	15.0	MAX	59	MIN	.22	AC-FT	10860		
WTR YR 1982	TOTAL	9887.64	MEAN	27.1	MAX	292	MIN	.22	AC-FT	19610		

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, Hydrologic Unit 18060002, 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 mi² (534 km²).

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).--43 years, 14.4 ft³/s (0.408 m³/s), 10,430 acre-ft/yr (12.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,060 ft³/s (228 m³/s) Apr. 4, 1941, gage height, 7.75 ft (2.362 m), from rating curve extended above 3,500 ft³/s (99.1 m³/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.--Peak discharges above base of 450 ft³/s (12.7 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 16	0915	*2,940 83.3	8.25 2.515
Mar. 31	1930	1,780 50.4	7.43 2.265
Apr. 11	1915	835 23.6	6.40 1.951

Minimum daily, 2.40 ft³/s (0.068 m³/s) Oct. 25, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	3.0	2.9	2.9	32	28	626	22	12	14	17	10
2	8.7	3.0	2.9	2.9	29	43	335	21	12	14	17	10
3	8.7	3.0	2.9	10	29	53	153	21	9.2	14	16	10
4	6.6	3.0	2.9	11	29	39	128	20	10	15	16	10
5	5.1	3.0	2.9	220	29	31	89	20	15	15	16	11
6	6.4	3.0	2.9	96	28	29	73	19	15	15	16	10
7	6.4	3.0	2.9	50	28	29	68	19	15	15	16	11
8	6.3	3.0	2.9	33	28	29	57	18	14	15	16	10
9	6.2	3.0	2.9	24	27	29	50	18	15	15	16	10
10	6.2	3.0	2.9	18	27	29	54	17	14	15	12	10
11	6.1	3.0	2.9	17	27	34	407	17	14	16	6.6	10
12	6.1	3.2	2.9	17	27	43	230	16	14	16	9.0	10
13	6.1	3.3	2.9	17	26	35	106	16	13	16	12	11
14	6.1	3.1	2.9	16	26	35	80	16	13	16	12	11
15	5.9	3.0	2.9	16	70	47	66	15	12	16	12	11
16	5.7	2.9	2.9	16	1120	53	55	15	13	16	12	10
17	5.5	3.0	2.9	16	234	63	49	15	13	16	12	10
18	5.5	2.9	2.9	16	96	74	44	15	13	16	12	10
19	5.4	2.9	2.9	15	63	147	40	14	13	16	12	10
20	5.3	2.9	2.9	23	48	88	36	14	13	16	12	11
21	4.4	2.9	2.9	143	39	70	32	14	14	16	11	10
22	3.2	2.9	2.9	99	31	60	30	14	14	17	11	10
23	2.9	2.9	2.9	70	29	52	29	13	14	17	11	11
24	2.5	2.9	2.9	72	29	46	29	13	13	17	10	10
25	2.4	2.9	2.9	74	29	42	29	13	14	17	10	11
26	2.7	2.9	2.9	62	29	45	29	13	13	17	10	10
27	2.7	2.9	2.8	61	29	43	28	13	13	17	10	10
28	2.7	2.9	2.9	50	28	44	25	13	14	17	10	10
29	2.4	2.9	3.0	57	---	160	24	12	14	17	10	10
30	2.9	2.9	2.9	46	---	247	23	12	14	17	11	10
31	3.0	---	2.9	37	---	492	---	12	---	17	10	---
TOTAL	158.7	89.2	89.9	1407.8	2266	2259	3024	490	399.2	493	383.6	308
MEAN	5.12	2.97	2.90	45.4	80.9	72.9	101	15.8	13.3	15.9	12.4	10.3
MAX	8.7	3.3	3.0	220	1120	492	626	22	15	17	17	11
MIN	2.4	2.9	2.8	2.9	26	28	23	12	9.2	14	6.6	10
AC-FT	315	177	178	2790	4490	4480	6000	972	792	978	761	611
CAL YR 1981	TOTAL	1977.9	MEAN	5.42	MAX	43	MIN	1.9	AC-FT	3920		
WTR YR 1982	TOTAL	11368.4	MEAN	31.1	MAX	1120	MIN	2.4	AC-FT	22550		

PAJARO RIVER BASIN

11158500 SAN BENITO RIVER NEAR HOLLISTER, CA

LOCATION.--Lat 36°47'71", long 121°22'11", in SW¼ sec.24, T.13 S., R.5 E., San Benito County, Hydrologic Unit 18060002, 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 mi² (1,518 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 359.3 ft (109.51 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Flow regulated by Hernandez Reservoir 67 mi (108 km) upstream beginning in December 1961, capacity, 18,700 acre-ft (23.1 hm³). Several small diversions above station for irrigation.

AVERAGE DISCHARGE.--33 years, 30.3 ft³/s (0.858 m³/s), 21,950 acre-ft/yr (27.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,600 ft³/s (329 m³/s) Apr. 3, 1958, gage height, 16.30 ft (4.968 m), from rating curve extended above 1,200 ft³/s (34.0 m³/s) on basis of flood-routing study; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,320 ft³/s (65.7 m³/s) Feb. 16, gage height, 10.74 ft (3.274 m), from rating curve extended above 180 ft³/s (5.10 m³/s); minimum daily, no flow several days during October.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.28	13	9.6	13	14	891	19	8.4	26	25	36
2	0	.27	12	14	13	22	602	17	6.9	24	30	36
3	0	.27	8.3	9.9	12	32	400	16	4.1	24	32	35
4	.01	.32	6.3	27	14	22	392	14	6.2	25	33	34
5	.01	.35	5.4	307	12	14	269	12	11	25	34	31
6	0	.38	5.0	199	12	13	170	11	12	24	34	30
7	.01	.36	4.7	75	12	11	139	10	13	23	34	30
8	.01	.36	4.4	34	12	11	130	9.7	15	24	31	29
9	.01	.36	4.2	21	11	11	116	9.0	14	23	33	29
10	.01	.36	4.0	17	11	12	112	9.5	13	24	31	29
11	.03	.37	3.9	15	11	13	515	9.3	14	23	29	30
12	.03	.51	3.7	13	11	16	667	8.8	14	22	42	30
13	.04	1.9	3.8	11	11	12	260	8.4	14	21	45	30
14	.04	3.6	3.8	10	11	15	192	8.5	15	22	46	30
15	.04	17	5.1	9.3	39	67	131	7.9	15	21	45	31
16	.02	14	5.7	8.6	1080	62	104	6.0	14	21	43	32
17	.01	10	5.1	8.8	358	139	85	5.1	14	22	42	34
18	.01	11	4.6	9.0	174	162	68	4.3	15	22	42	32
19	0	11	4.3	9.4	97	242	60	4.1	15	24	40	30
20	0	9.4	4.4	20	63	135	49	4.4	21	24	42	26
21	0	8.7	4.6	162	41	89	39	6.7	23	23	39	22
22	0	8.2	4.7	112	29	60	32	7.9	24	23	37	22
23	0	7.2	4.8	51	23	49	29	9.1	23	24	38	21
24	0	6.4	4.4	43	19	39	32	9.6	24	24	39	27
25	0	6.0	4.2	46	17	34	37	9.0	23	28	41	29
26	.01	6.3	4.2	35	14	32	35	9.5	22	30	40	31
27	.02	7.3	4.1	32	13	32	31	9.6	21	29	39	29
28	.32	16	3.6	24	13	34	26	8.2	21	27	38	27
29	.35	22	5.2	26	---	198	23	8.8	25	25	38	26
30	.38	15	18	21	---	347	20	9.0	29	23	38	25
31	.32	---	13	15	---	579	---	8.4	---	25	36	---
TOTAL	1.68	185.19	182.5	1394.6	2146	2518	5656	289.8	489.6	745	1156	883
MEAN	.054	6.17	5.89	45.0	76.6	81.2	189	9.35	16.3	24.0	37.3	29.4
MAX	.38	22	18	307	1080	579	891	19	29	30	46	36
MIN	0	.27	3.6	8.6	11	11	20	4.1	4.1	21	25	21
AC-FT	3.3	367	362	2770	4260	4990	11220	575	971	1480	2290	1750

CAL YR 1981 TOTAL 3755.67 MEAN 10.3 MAX 92 AC-FT 7450
WTR YR 1982 TOTAL 15647.37 MEAN 42.9 MAX 1080 AC-FT 31040

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, Hydrologic Unit 18060002, 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 mi² (1,572 km²).

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 hm³). Some small diversions above station for irrigation.

AVERAGE DISCHARGE.--12 years, 25.1 ft³/s (0.711 m³/s), 18,180 acre-ft/yr (22.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,030 ft³/s (227 m³/s) Feb. 11, 1973, gage height, 9.18 ft (2.798 m), from rating curve extended above 2,400 ft³/s (68.0 m³/s); no flow many days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,700 ft³/s (48.1 m³/s) Feb. 16, gage height, 9.00 ft (2.743 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	7.9	2.5	2.3	5.8	879	5.3	0	7.1	8.9	16
2	0	0	6.0	8.3	1.8	7.0	717	4.8	0	6.6	13	17
3	0	0	3.4	3.9	1.5	18	379	4.3	0	6.4	15	16
4	0	0	.74	27	2.2	8.5	267	4.0	0	6.6	14	15
5	0	0	0	199	1.4	6.4	179	3.5	2.5	6.4	15	13
6	0	0	0	164	1.2	5.6	145	3.0	3.1	6.4	13	12
7	0	0	0	72	1.1	4.9	135	2.8	3.4	6.0	15	12
8	0	0	0	34	1.1	4.4	111	2.7	3.8	6.0	9.6	12
9	0	0	0	15	.92	4.4	92	2.4	3.7	6.0	11	13
10	0	0	0	9.5	.86	4.7	88	2.5	3.5	6.0	14	13
11	0	0	0	6.8	.86	5.3	355	2.5	3.7	6.0	11	12
12	0	3.8	0	4.4	.60	7.9	507	2.3	3.7	6.0	9.0	11
13	0	7.7	0	3.0	1.0	4.2	100	2.2	3.9	5.6	8.4	12
14	0	1.6	0	1.4	1.1	4.7	58	2.1	3.9	5.8	9.9	13
15	0	0	0	.12	12	68	33	2.0	4.1	5.6	11	14
16	0	.18	0	0	808	60	26	1.6	3.8	5.6	12	15
17	0	1.7	0	0	464	139	23	1.4	3.7	5.7	11	16
18	0	0	0	0	210	145	19	1.2	4.0	5.7	11	17
19	0	.68	0	2.0	110	211	15	.90	4.3	6.4	12	16
20	0	.22	.09	20	57	126	13	.50	5.4	6.3	15	14
21	0	0	0	122	25	81	11	.35	6.1	6.2	15	11
22	0	0	0	96	13	52	9.4	.20	6.3	6.1	13	9.4
23	0	0	0	49	9.8	31	7.8	.06	6.0	6.3	15	9.4
24	0	0	0	33	8.0	22	8.5	.02	6.4	6.3	15	15
25	0	0	0	39	7.3	17	9.8	.01	6.1	7.1	15	18
26	0	0	0	27	6.2	17	8.5	0	6.0	7.6	18	18
27	0	1.7	0	22	5.5	18	8.1	0	5.6	7.8	17	16
28	1.2	2.9	0	16	5.1	18	7.2	0	5.6	7.2	17	14
29	0	15	1.4	15	---	138	6.2	0	6.4	8.9	17	13
30	0	10	9.2	9.4	---	446	5.8	0	7.7	7.6	17	12
31	0	---	7.0	4.1	---	394	---	0	---	5.9	16	---
TOTAL	1.2	45.48	35.73	1005.42	1758.84	2074.8	4223.3	52.64	122.7	199.2	413.8	414.8
MEAN	.039	1.52	1.15	32.4	62.8	66.9	141	1.70	4.09	6.43	13.3	13.8
MAX	1.2	15	9.2	199	808	446	879	5.3	7.7	8.9	18	18
MIN	0	0	0	0	.60	4.2	5.8	0	0	5.6	8.4	9.4
AC-FT	2.4	90	71	1990	3490	4120	8380	104	243	395	821	823
CAL YR 1981	TOTAL	1348.58	MEAN	3.69	MAX	65	MIN	0	AC-FT	2670		
WTR YR 1982	TOTAL	10347.91	MEAN	28.4	MAX	879	MIN	0	AC-FT	20530		

PAJARO RIVER BASIN

11159000 PAJARO RIVER AT CHITTENDEN, CA
(National stream-quality accounting network station)

LOCATION.--Lat 36°54'01", long 121°35'48", in Salsipuedes Grant, Santa Cruz County, Hydrologic Unit 18060002, 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 mi² (3,072 km²).

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) National Geodetic Vertical Datum of 1929. Prior to May 13, 1949, nonrecording gage on former bridge 100 ft (30 m) downstream at same datum except that water-stage recorder, also 100 ft (30 m) downstream and at same datum, was used Dec. 20, 1946, to June 11, 1947, June 21 to Sept. 23, 1947, and Dec. 19, 1947, to May 6, 1948. May 7, 1948, to Aug. 19, 1975, at downstream side of right bank pier of bridge at same datum.

REMARKS.--Records fair. Flow regulated by Hernandez Reservoir, capacity, 18,700 acre-ft (23.1 hm³), Pacheco Lake, capacity, 6,150 acre-ft (7.58 hm³), Chesbro Reservoir (station 11153480), Uvas Reservoir (station 11154020), and San Felipe Lake. Many diversions above station for irrigation.

AVERAGE DISCHARGE.--43 years, 146 ft³/s (4.135 m³/s), 105,800 acre-ft/yr (130 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,000 ft³/s (680 m³/s) Dec. 24, 1955, gage height, 32.46 ft (9.894 m), from rating curve extended above 8,300 ft³/s (235 m³/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, 12,100 ft³/s (343 m³/s) Jan. 5, gage height, 25.51 ft (7.775 m); minimum daily, 1.2 ft³/s (0.034 m³/s) Oct. 16, 17, 19-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	2.1	6.5	448	257	222	7120	191	47	22	19	14
2	2.2	1.8	5.8	569	233	361	5270	182	45	22	16	13
3	3.0	1.6	5.3	477	219	515	4650	173	44	21	14	13
4	2.6	1.6	5.1	1790	204	373	4790	166	42	21	15	13
5	2.5	2.2	4.9	10600	185	310	2990	156	41	21	16	12
6	2.5	3.0	4.7	7180	169	268	2070	149	40	20	17	12
7	3.3	2.8	4.5	2090	159	239	1500	144	39	20	17	12
8	3.0	2.2	4.5	1500	151	226	1180	141	38	20	19	11
9	2.2	1.9	4.6	1200	143	204	935	133	37	19	19	11
10	2.0	1.7	4.7	1000	137	197	975	129	36	19	18	10
11	1.8	1.6	4.5	729	131	219	4920	124	35	19	17	10
12	1.8	2.3	4.4	574	125	223	6310	116	34	18	20	10
13	1.7	1.5	4.4	440	123	218	3510	113	33	18	19	9.7
14	1.5	1.27	4.2	383	143	216	2400	106	32	18	18	9.2
15	1.3	50	4.0	300	1130	223	1790	103	31	18	18	9.9
16	1.2	13	4.0	250	6800	304	1350	99	30	17	17	11
17	1.2	31	4.0	215	5270	661	1060	93	30	17	16	11
18	1.3	33	3.9	185	2970	741	845	90	29	17	18	9.8
19	1.2	12	3.9	160	1790	739	685	84	28	17	17	8.4
20	1.2	7.3	264	800	1260	606	569	78	28	16	15	7.8
21	1.2	5.9	421	1700	935	482	474	74	27	16	17	8.6
22	1.3	7.0	137	1250	709	405	401	72	27	17	17	8.5
23	1.6	6.1	74	950	544	343	342	68	26	16	18	8.4
24	2.1	18	54	760	425	295	305	64	25	17	14	12
25	2.1	12	41	610	338	260	285	62	25	18	15	13
26	1.7	15	34	522	284	248	267	59	24	16	16	15
27	1.4	18	27	432	246	235	248	58	24	16	14	9.7
28	3.1	20	20	399	216	255	230	58	23	17	14	7.8
29	14	12	80	373	---	720	216	56	23	18	16	7.1
30	4.8	8.0	814	325	---	1870	202	55	23	21	14	7.3
31	2.8	---	349	284	---	2890	---	49	---	20	14	---
TOTAL	75.9	435.1	2402.9	38495	25296	15068	57889	3245	966	572	514	315.2
MEAN	2.45	14.5	77.5	1242	903	486	1930	105	32.2	18.5	16.6	10.5
MAX	14	127	814	10600	6800	2890	7120	191	47	22	20	15
MIN	1.2	1.6	3.9	160	123	197	202	49	23	16	14	7.1
AC-FT	151	863	4770	76350	50170	29890	114800	6440	1920	1130	1020	625

CAL YR 1981 TOTAL 17430.8 MEAN 47.8 MAX 1760 MIN 1.2 AC-FT 34570
WTR YR 1982 TOTAL 145274.1 MEAN 398 MAX 10600 MIN 1.2 AC-FT 288200

11159000 PAJARO RIVER AT CHITTENDEN, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1952 to current year.

BIOLOGICAL DATA: Water years 1978-81.

SPECIFIC CONDUCTANCE: Water years 1978-81.

WATER TEMPERATURES: Water years 1978-81.

SEDIMENT RECORDS: Water years 1978 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1978 to September 1981.

WATER TEMPERATURES: May 1978 to September 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW+ INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 MP-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)
NOV 17...	1200	23	1200	8.0	15.0	56	8.0	5100	>10000	304	64
JAN 26...	1400	506	468	7.9	11.0	31	10.0	--	990	191	41
MAR 08...	1300	213	632	7.7	13.5	16	9.8	203	228	236	56
MAY 18...	1130	92	977	7.8	16.5	22	8.9	--	K190	372	112
JUL 13...	1230	16	1430	7.6	19.0	29	7.5	780	2000	483	93
SEP 14...	1300	11	1420	7.7	17.0	38	7.4	950	--	463	73

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
NOV 17...	51	43	130	47	3.3	10	240	200	130	.3
JAN 26...	37	24	33	27	1.1	2.6	150	66	26	.2
MAR 08...	45	30	42	28	1.2	2.4	180	89	37	.3
MAY 18...	68	49	65	27	1.5	2.2	260	140	65	.2
JUL 13...	83	67	120	35	2.4	4.4	390	190	120	.3
SEP 14...	80	64	150	41	3.1	5.0	390	150	150	.3

DATE	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
NOV 17...	15	766	718	1.0	2.4	.41	2.3	.65	.64	.64
JAN 26...	16	292	295	.40	1.7	.17	1.1	.12	.11	.10
MAR 08...	17	391	377	.53	1.9	.14	.82	.10	.10	.07
MAY 18...	19	570	565	.78	2.5	.11	1.4	.14	.19	.08
JUL 13...	23	896	840	1.2	7.9	.30	2.4	.29	.26	.21
SEP 14...	28	977	869	1.3	4.8	.73	3.2	.32	.33	.32

> Actual value is known to be greater than the value shown.

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

PAJARO RIVER BASIN

11159000 PAJARO RIVER AT CHITTENDEN, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)
NOV 17...	1200	5	4	100	100	<1	<1	10	<10	3
JAN 26...	1400	3	1	100	100	<1	<1	20	<10	2
MAY 18...	1130	3	2	200	98	<1	<3	10	<10	1
SEP 14...	1300	4	3	--	130	<1	<1	10	<10	2

DATE	TIME	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
NOV 17...		<3	18	6	3800	160	12	1	320	160	.1
JAN 26...		1	12	3	4100	120	8	2	100	20	.1
MAY 18...		1	10	1	2000	<9	1	1	220	140	.1
SEP 14...		1	16	4	3900	42	7	1	430	260	.1

DATE	TIME	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 17...		<.1	18	9	1	1	<1	<1	60	5
JAN 26...		<.1	18	5	0	<1	<1	<1	20	10
MAY 18...		<.1	14	5	1	1	<1	<1	20	<12
SEP 14...		<.1	40	8	2	1	<1	<1	20	23

< Actual value is known to be less than the value shown.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM
JAN 26...	1340	506	11.5	129	176	69	--	--	--
MAR 08...	1400	224	14.5	30	18	82	--	--	--
MAY 18...	1200	92	16.5	53	13	96	99	100	--
JUL 13...	1330	18	19.5	82	4.0	81	90	96	100
SEP 14...	1320	11	17.0	75	2.2	99	100	--	--

11159200 CORRALITOS CREEK AT FREEDOM, CA

LOCATION.--Lat 36°56'22", long 121°46'10", in Los Corralitos Grant, Santa Cruz County, Hydrologic Unit 18060002, 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 mi² (72.0 km²).

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

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

REMARKS.--Records fair. No regulation; Watsonville Water Works can divert up to 8.0 ft³/s (0.23 m³/s) daily above station for municipal supply, domestic use, and irrigation.

AVERAGE DISCHARGE.--26 years, 15.1 ft³/s (0.428 m³/s), 10,940 acre-ft/yr (13.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,610 ft³/s (159 m³/s) Jan. 4, 1982, gage height, 16.66 ft (5.078 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 ft³/s (103 m³/s), on basis of contracted-opening measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft³/s (17.0 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 20	0830	875 24.8	7.47 2.277	Feb. 16	0330	2,310 65.4	10.90 3.322
Dec. 29	2015	647 18.3	6.78 2.067	Apr. 3	0800	653 18.5	6.80 2.073
Jan. 4	2245	*5,610 159	16.66 5.078	Apr. 10	2300	1,060 30.0	8.04 2.451

Minimum, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	2.4	33	31	82	209	36	7.5	2.1	.54	.32
2	0	2.1	1.3	18	27	88	168	35	7.3	1.9	.56	.32
3	0	.97	.90	8.3	26	67	407	33	6.8	1.8	.60	.32
4	0	0	.66	2290	26	60	202	31	6.5	1.6	.58	.29
5	0	0	.49	1460	24	55	142	29	6.3	1.4	.57	.29
6	0	0	.41	264	24	52	114	28	5.9	1.4	.56	.31
7	0	0	.36	129	24	51	101	26	5.7	1.2	.56	.31
8	0	0	.37	100	22	50	93	25	5.5	1.1	.57	.29
9	0	0	.26	82	22	49	85	24	5.3	1.1	.53	.29
10	0	0	1.1	67	22	55	271	22	4.9	.98	.51	.29
11	0	0	1.2	57	22	60	652	21	4.8	.92	.48	.27
12	0	8.9	.48	48	21	55	302	20	4.5	.85	.54	.27
13	0	143	1.5	41	22	51	185	19	4.1	.83	.50	.27
14	0	55	1.1	36	90	51	158	18	4.1	.78	.46	.28
15	0	19	1.0	31	701	49	128	16	3.7	.78	.42	.29
16	0	16	.86	27	1000	68	108	15	3.5	.74	.41	.29
17	0	107	.29	24	344	75	95	14	3.3	.70	.39	.30
18	0	15	.31	21	157	70	86	13	3.4	.67	.41	.27
19	0	7.3	.77	26	108	63	79	12	3.3	.64	.41	.22
20	0	4.4	337	33	84	57	72	11	2.9	.64	.41	.22
21	0	4.0	29	41	72	52	66	11	2.9	.60	.37	.23
22	0	7.6	2.3	32	65	47	62	11	2.8	.62	.36	.23
23	0	5.5	.58	29	59	43	58	10	2.7	.62	.36	.29
24	0	61	.14	27	55	40	54	9.7	2.5	.61	.36	.48
25	0	11	.06	26	52	37	51	9.6	2.3	.61	.38	.64
26	0	9.9	.01	39	49	36	48	9.5	2.1	.68	.36	.66
27	0	11	0	33	47	34	45	9.1	2.0	.62	.35	.44
28	9.0	8.5	0	50	46	41	43	8.8	1.9	.62	.34	.31
29	3.6	5.3	181	43	---	101	40	8.4	2.4	.56	.33	.25
30	0	3.5	62	37	---	99	38	8.2	2.8	.56	.31	.26
31	0	---	28	33	---	218	---	7.8	---	.54	.32	---
TOTAL	12.6	505.97	655.85	5185.3	3242	1956	4162	551.1	123.7	28.77	13.85	9.50
MEAN	.41	16.9	21.2	167	116	63.1	139	17.8	4.12	.93	.45	.32
MAX	9.0	143	337	2290	1000	218	652	36	7.5	2.1	.60	.66
MIN	0	0	0	8.3	21	34	38	7.8	1.9	.54	.31	.22
AC-FT	25	1000	1300	10290	6430	3880	8260	1090	245	57	27	19
CAL YR 1981	TOTAL	2936.95	MEAN	8.05	MAX	337	MIN	0	AC-FT	5830		
WTR YR 1982	TOTAL	16446.64	MEAN	45.1	MAX	2290	MIN	0	AC-FT	32620		

APTOS CREEK BASIN

11159690 APTOS CREEK NEAR APTOS, CA

LOCATION.--Lat 37°00'06", long 121°54'18", in Aptos Grant, Santa Cruz County, Hydrologic Unit 18060001, on right bank under county road bridge, 0.4 mi (0.6 km) downstream from small right-bank tributary, and 1.7 mi (2.7 km) north of Aptos.

DRAINAGE AREA.--10.2 mi² (26.4 km²).

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

AVERAGE DISCHARGE.--11 years, 8.94 ft³/s (0.253 m³/s), 6,480 acre-ft/yr (7.99 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,980 ft³/s (113 m³/s) Jan. 4, 1982, gage height, 12.1 ft (3.688 m), from rating curve extended above 340 ft³/s (9.63 m³/s); minimum daily, 0.36 ft³/s (0.010 m³/s) July 30 to Aug. 2, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft³/s (2.83 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 17	0200	133 3.77	2.28 0.695	Feb. 15	2215	1,030 29.2	5.29 1.612
Dec. 20	0815	153 4.33	2.38 .725	Mar. 31	1815	Unknown	Unknown
Dec. 29	1900	487 13.3	3.66 1.116	Apr. 3	Unknown	Unknown	Unknown
Jan. 4	1515	*3,980 113	12.10 3.688	Apr. 10	2200	848 24.0	4.77 1.454
Jan. 28	1545	107 3.03	2.13 .649				

Minimum daily, 0.41 ft³/s (0.012 m³/s) Nov. 2, 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.69	.46	4.3	62	15	39	165	13	6.6	4.7	3.4	2.4
2	.68	.41	3.9	32	14	42	175	12	6.2	4.5	3.4	2.4
3	.64	.41	3.7	21	14	31	380	12	5.9	4.5	2.7	2.4
4	.69	.43	3.4	1670	13	26	300	11	5.7	4.3	2.7	2.3
5	.69	.52	3.2	372	11	24	80	11	5.6	4.3	2.7	2.3
6	.64	.61	3.0	80	11	23	53	10	5.5	4.1	2.9	2.3
7	1.0	.68	3.0	52	10	22	44	10	5.4	4.1	3.0	2.2
8	.97	.69	3.0	36	9.7	22	38	9.7	5.4	4.1	2.9	2.0
9	.87	.69	2.9	29	9.3	23	33	11	5.3	3.9	2.9	2.0
10	.80	.69	2.9	24	9.0	25	46	9.4	5.3	3.9	2.9	2.0
11	.88	.69	2.7	21	8.6	32	510	9.1	5.3	3.9	2.9	2.0
12	.88	2.2	2.7	19	8.3	25	160	8.8	5.2	3.9	2.9	1.9
13	.83	14	2.7	17	13	24	110	8.6	5.2	3.7	2.9	1.9
14	.78	7.4	2.7	15	120	24	71	8.2	5.2	3.8	2.8	1.9
15	.78	5.0	2.7	14	760	23	53	8.2	5.1	3.9	2.7	2.0
16	.78	4.6	2.7	13	210	29	47	8.3	5.1	3.9	2.7	2.0
17	.70	39	2.6	12	90	42	41	8.7	5.2	3.9	2.7	2.0
18	.69	7.0	2.6	11	72	49	35	8.8	5.2	3.7	2.7	2.0
19	.69	4.5	2.7	18	58	41	30	8.2	5.2	3.7	2.7	2.0
20	.67	4.1	2.7	40	42	36	28	7.9	5.2	3.7	2.7	2.0
21	.61	4.1	21	37	34	30	26	8.0	5.2	3.7	2.6	2.0
22	.65	5.9	11	24	29	27	24	8.1	5.2	3.7	2.6	2.0
23	.69	4.9	8.5	25	25	25	21	8.3	5.1	3.7	2.6	2.2
24	.69	19	7.3	30	22	24	19	7.0	4.9	3.7	2.6	2.6
25	.69	7.6	6.4	37	20	24	18	5.9	4.9	3.5	2.6	3.0
26	.69	6.4	5.7	63	19	23	16	6.9	4.9	3.5	2.6	2.6
27	.81	6.7	5.7	48	18	23	15	7.0	4.9	3.5	2.6	2.2
28	2.6	7.3	4.9	49	17	25	14	7.1	4.7	3.5	2.4	2.0
29	1.1	5.7	132	21	---	29	14	7.7	5.1	3.5	2.4	2.0
30	.61	4.7	70	18	---	31	13	8.0	5.1	3.5	2.4	2.0
31	.47	---	43	16	---	480	---	6.9	---	3.5	2.4	---
TOTAL	24.96	166.38	375.6	2926	1681.9	1343	2579	274.8	158.8	119.8	85.0	64.6
MEAN	.81	5.55	12.1	94.4	60.1	43.3	86.0	8.86	5.29	3.86	2.74	2.15
MAX	2.6	39	132	1670	760	480	510	13	6.6	4.7	3.4	3.0
MIN	.47	.41	2.6	11	8.3	22	13	5.9	4.7	3.5	2.4	1.9
AC-FT	50	330	745	5800	3340	2660	5120	545	315	238	169	128

CAL YR 1981 TOTAL 1455.25 MEAN 3.99 MAX 133 MIN .41 AC-FT 2890
WTR YR 1982 TOTAL 9799.84 MEAN 26.8 MAX 1670 MIN .41 AC-FT 19440

NOTE.--No gage-height record Jan. 6-20, Jan. 29 to Apr. 20, Apr. 27 to May 8, May 31 to June 16.

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, Hydrologic Unit 18060001, 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 mi² (104.1 km²).

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) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--31 years, 42.2 ft³/s (1.195 m³/s), 30,570 acre-ft/yr (37.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,800 ft³/s (447 m³/s) Dec. 23, 1955, gage height, 22.33 ft (6.806 m), from rating curve extended above 2,900 ft³/s (82.1 m³/s) on basis of slope-area measurement of maximum flow; no flow on several days during August and September 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 13	1915	1,040 29.4	6.72 2.048	Feb. 16	0215	3,580 101	11.17 3.405
Nov. 17	0245	1,510 42.8	7.59 2.313	Mar. 31	1015	1,760 49.8	8.12 2.475
Dec. 29	1830	1,160 32.9	6.79 2.070	Apr. 3	0745	1,660 47.0	7.91 2.411
Jan. 4	Unknown	*9,700 275	21.85 6.660	Apr. 10	2300	4,440 126	12.33 3.758

Minimum daily, 0.65 ft³/s (0.018 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.65	1.7	15	242	32	168	647	44	18	16	6.1	5.1
2	.82	1.1	12	182	29	329	507	41	18	15	5.9	5.0
3	1.2	.96	10	122	27	176	882	39	18	14	6.0	4.7
4	1.1	.96	8.4	4300	25	155	477	37	17	13	5.9	4.2
5	1.3	.96	7.1	1200	23	135	397	35	18	13	5.8	3.8
6	1.4	.96	6.3	600	22	122	421	33	17	12	5.7	4.1
7	1.9	.96	5.5	340	22	115	386	32	18	12	5.6	4.7
8	1.3	1.0	5.2	188	22	112	353	31	18	11	5.5	4.6
9	.84	1.0	4.6	144	22	107	326	30	18	11	5.4	4.6
10	1.3	1.1	6.7	98	22	125	1150	28	18	11	5.4	4.5
11	1.4	1.1	5.1	88	22	165	1370	27	18	10	5.4	4.1
12	1.1	70	4.9	78	22	145	489	26	18	10	5.3	3.9
13	1.1	160	5.8	73	24	130	315	25	17	10	5.4	4.0
14	1.2	120	5.8	65	59	119	295	25	18	10	5.7	4.3
15	1.0	62	5.8	61	301	110	243	23	18	9.8	5.6	5.1
16	.88	55	5.8	57	1190	165	210	22	18	9.7	5.7	5.4
17	1.0	387	5.8	56	413	330	181	21	18	9.6	6.0	4.9
18	.87	52	5.4	56	282	210	154	21	18	9.3	5.2	4.8
19	.71	24	6.0	56	245	175	137	21	19	9.2	5.5	4.4
20	.67	15	490	111	207	161	116	20	18	9.0	5.7	4.3
21	.92	13	180	68	184	142	96	20	18	8.4	5.3	4.0
22	.99	29	85	44	157	125	86	20	18	8.2	4.8	3.9
23	.98	19	61	37	128	121	75	19	17	8.0	5.1	4.8
24	.93	156	47	36	106	106	70	19	17	8.1	5.3	7.9
25	1.1	45	35	33	82	103	65	19	16	7.8	5.6	9.6
26	1.3	39	30	55	81	110	60	20	15	7.7	5.4	7.9
27	1.7	63	30	39	78	98	57	20	14	7.3	5.4	5.8
28	14	43	25	68	77	110	53	19	14	6.9	5.2	5.1
29	7.7	27	380	51	---	296	50	18	17	6.8	5.0	4.9
30	4.8	19	250	40	---	214	47	18	21	6.6	4.9	4.9
31	2.7	---	196	36	---	1100	---	18	---	6.3	4.5	---
TOTAL	58.86	1409.80	1940.2	8624	3904	5779	9715	791	525	306.7	169.3	149.3
MEAN	1.90	47.0	62.6	278	139	186	324	25.5	17.5	9.89	5.46	4.98
MAX	14	387	490	4300	1190	1100	1370	44	21	16	6.1	9.6
MIN	.65	.96	4.6	33	22	98	47	18	14	6.3	4.5	3.8
AC-FT	117	2800	3850	17110	7740	11460	19270	1570	1040	608	336	296

CAL YR 1981 TOTAL 7902.41 MEAN 21.7 MAX 490 MIN .50 AC-FT 15670
WTR YR 1982 TOTAL 33372.16 MEAN 91.4 MAX 4300 MIN .65 AC-FT 66190

NOTE: No gage-height record Oct. 29, 30, Nov. 7-13, Jan. 4-8, Mar. 4-17. Stage-discharge relation indefinite Oct. 1, 2.

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, Hydrologic Unit 18060001, 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 mi² (15.98 km²).

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 fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--14 years, 6.89 ft³/s (0.195 m³/s), 4,990 acre-ft/yr (6.15 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,050 ft³/s (29.7 m³/s) Jan. 4, 1982, gage height, 11.48 ft (3.499 m), from rating curve extended above 230 ft³/s (6.51 m³/s) on basis of computation of flow through culvert at gage height 8.48 ft (2.585 m); minimum daily, 0.08 ft³/s (0.002 m³/s) Aug. 2, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 70 ft³/s (1.98 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 13	1800	153 4.33	4.25 1.295	Mar. 31	0915	579 16.4	8.03 2.448
Dec. 29	1515	162 4.59	4.34 1.323	Apr. 3	0430	231 6.54	5.04 1.536
Jan. 4	2315	*1,050 29.7	11.48 3.499	Apr. 11	0315	472 13.4	7.17 2.185
Feb. 16	0200	385 10.9	6.44 1.963				

Minimum daily, 0.08 ft³/s (0.008 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.28	.58	3.8	18	16	17	112	6.3	3.5	3.2	1.5	1.3
2	.31	.56	3.4	17	16	20	112	6.0	3.4	3.0	1.5	1.3
3	.44	.58	3.0	15	15	16	178	5.7	3.4	2.7	1.5	1.3
4	.40	.62	2.6	505	15	14	98	5.9	3.3	2.7	1.4	1.3
5	.36	.69	2.2	280	14	13	69	5.9	3.2	2.6	1.4	1.3
6	.35	.73	1.9	65	13	12	56	5.7	3.2	2.4	1.4	1.3
7	.59	.73	1.8	38	13	11	48	5.5	3.6	2.4	1.4	1.3
8	.43	.71	1.7	29	13	11	42	5.6	3.8	2.4	1.4	1.3
9	.40	.70	1.9	24	13	11	38	5.5	3.5	2.3	1.4	1.3
10	.52	.73	2.1	22	13	11	103	5.1	3.4	2.2	1.4	1.2
11	.49	.73	1.7	21	12	14	268	4.9	3.7	2.2	1.4	1.1
12	.47	1.4	2.1	19	12	12	115	4.8	3.5	2.2	1.4	1.1
13	.43	29	1.8	18	14	11	73	4.7	3.6	2.0	1.4	1.2
14	.43	9.1	1.7	17	21	12	59	4.6	3.5	1.9	1.4	1.2
15	.43	7.0	1.5	17	114	11	48	4.3	3.6	1.9	1.4	1.4
16	.40	6.9	1.5	16	176	16	41	4.1	3.7	1.9	1.4	1.4
17	.39	13	1.4	15	45	29	35	4.3	3.6	2.0	1.4	1.3
18	.39	4.6	1.4	15	30	33	31	4.1	3.5	1.8	1.4	1.2
19	.38	3.2	2.5	16	24	28	27	4.1	3.4	1.8	1.4	1.2
20	.38	2.1	25	26	21	23	25	3.8	3.4	1.8	1.4	1.2
21	.40	3.3	12	26	20	19	22	4.1	3.3	1.6	1.4	1.1
22	.39	4.7	8.5	21	18	17	20	4.1	3.3	1.6	1.4	1.0
23	.35	5.2	7.0	19	15	16	16	3.9	3.2	1.6	1.4	1.1
24	.37	11	5.9	19	14	15	13	3.8	3.0	1.6	1.4	1.6
25	.43	7.2	5.3	18	13	14	11	3.9	2.9	1.5	1.4	1.9
26	.48	6.8	4.9	19	13	14	10	4.0	2.8	1.5	1.4	1.4
27	.64	7.1	6.3	18	13	13	8.3	3.8	2.7	1.6	1.4	1.3
28	3.7	6.1	5.3	20	12	14	7.6	3.7	2.8	1.6	1.4	1.2
29	1.3	5.0	48	19	---	23	6.7	3.7	3.8	1.6	1.4	1.2
30	.71	4.3	22	18	---	34	6.3	3.7	3.3	1.5	1.3	1.1
31	.62	---	16	17	---	282	---	3.5	---	1.5	1.3	---
TOTAL	17.66	144.36	206.2	1407	728	786	1698.9	143.1	100.9	62.6	43.5	38.1
MEAN	.57	4.81	6.65	45.4	26.0	25.4	56.6	4.62	3.36	2.02	1.40	1.27
MAX	3.7	29	48	505	176	282	268	6.3	3.8	3.2	1.5	1.9
MIN	.28	.56	1.4	15	12	11	6.3	3.5	2.7	1.5	1.3	1.0
AC-FT	35	286	409	2790	1440	1560	3370	284	200	124	86	76

CAL YR 1981	TOTAL	935.31	MEAN	2.56	MAX	55	MIN	.28	AC-FT	1860
WTR YR 1982	TOTAL	5376.32	MEAN	14.7	MAX	505	MIN	.28	AC-FT	10660

LOCATION.--Lat 37°07'40", long 122°06'57", in NW¼NW¼ sec.29, T.9 S., R.2 W., Santa Cruz County, Hydrologic Unit 18060001, on left bank on downstream side of private road bridge, in town of Boulder Creek, and 0.3 mi (0.5 km) upstream from mouth.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,480 ft³/s (127 m³/s) Jan. 4, 1982, gage height, 13.30 ft (4.054 m), from rating curve extended above 600 ft³/s (49.9 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.12 ft³/s (0.003 m³/s) Sept. 23, 24, 1981.

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 13	1930	453 12.8	4.08 1.244	Mar. 17	1630	166 4.70	2.56 0.780
Dec. 20	0430	281 7.96	3.25 0.991	Mar. 31	1000	1,260 35.7	6.80 2.073
Dec. 29	1645	460 13.0	4.11 1.253	Apr. 3	0500	738 20.9	5.19 1.582
Jan. 4	2315	*4,480 127	13.30 4.054	Apr. 11	0300	1,410 39.9	7.20 2.195
Feb. 16	0215	808 22.9	5.43 1.655				

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.18	1.4	6.5	88	26	70	468	37	10	4.9	3.1	1.3
2	.34	1.3	5.6	91	23	85	437	33	8.9	5.4	3.0	1.3
3	.14	1.2	4.8	65	21	62	620	32	8.8	4.8	2.8	1.3
4	.15	1.2	4.4	1840	19	49	405	28	7.9	5.1	2.6	1.3
5	.17	1.2	3.9	711	17	42	284	25	7.6	5.7	2.7	1.3
6	.18	1.3	3.7	136	15	37	221	27	8.2	5.5	2.8	1.2
7	.21	1.3	3.6	91	15	34	174	28	7.3	4.5	2.5	1.2
8	.21	1.3	3.6	71	13	32	141	22	8.6	4.7	2.4	1.2
9	.21	1.3	3.8	58	13	29	131	21	9.1	4.8	1.7	1.3
10	.22	1.3	4.4	47	12	41	457	21	8.3	4.5	1.7	1.1
11	.30	1.4	3.6	38	11	74	898	21	6.7	5.0	1.7	1.0
12	.33	3.2	4.2	32	10	50	494	18	6.1	5.7	1.7	.95
13	.36	121	4.6	27	17	41	363	14	5.9	4.2	1.7	2.2
14	.29	46	3.8	23	37	39	289	15	6.5	4.8	1.7	3.6
15	.28	26	3.6	21	264	35	226	16	7.2	5.2	1.7	3.7
16	.29	29	3.4	18	359	60	173	13	6.4	3.9	1.6	4.4
17	.32	80	3.2	16	119	123	130	14	5.8	3.9	1.5	4.3
18	.32	16	3.2	14	87	110	95	13	5.9	4.5	1.5	3.8
19	.32	7.5	6.9	24	70	88	68	13	6.0	3.7	1.5	3.5
20	.36	5.3	155	61	59	75	55	13	6.3	3.6	1.5	3.3
21	.36	5.4	65	63	51	65	47	11	5.9	3.4	1.5	2.9
22	.36	8.7	36	42	43	59	40	11	6.0	3.3	1.5	2.7
23	.36	6.7	22	35	37	52	33	11	5.7	2.9	1.5	2.4
24	.36	26	15	31	33	46	28	10	5.6	2.9	1.4	2.7
25	.50	12	12	27	30	42	27	9.6	5.6	4.7	1.4	2.9
26	.55	11	9.9	35	27	42	33	9.9	5.7	3.7	1.4	2.5
27	.83	34	14	29	25	36	32	9.1	5.4	3.6	1.4	2.0
28	15	18	9.6	52	23	41	29	8.3	5.1	4.4	1.4	1.8
29	4.1	11	164	41	---	69	33	8.9	5.8	4.4	1.4	1.6
30	2.0	7.9	107	34	---	98	38	10	5.2	4.2	1.3	1.4
31	1.6	---	72	30	---	838	---	13	---	3.0	1.3	---
TOTAL	31.20	488.9	762.3	3891	1476	2564	6469	535.8	203.5	134.9	56.9	66.15
MEAN	1.01	16.3	24.6	126	52.7	82.7	216	17.3	6.78	4.35	1.84	2.21
MAX	15	121	164	1840	359	838	898	37	10	5.7	3.1	4.4
MIN	.14	1.2	3.2	14	10	29	27	8.3	5.1	2.9	1.3	.95
AC-FT	62	970	1510	7720	2930	5090	12830	1060	404	268	113	131
CAL YR 1981	TOTAL	2915.08	MEAN	7.99	MAX	164	MIN	.12	AC-FT	5780		
WTR YR 1982	TOTAL	16679.65	MEAN	45.7	MAX	1840	MIN	.14	AC-FT	33080		

LOCATION.--Lat 37°07'36", long 122°07'18", in NW¼NE¼ sec.30, T.9 S., R.2 W., Santa Cruz County, Hydrologic Unit 18060001, on right bank under bridge on State Highway 9 in town of Boulder Creek, 750 ft (229 m) upstream from mouth.

PERIOD OF RECORD.--October 1976 to current year.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,880 ft³/s (53.2 m³/s) Jan. 4, 1982, gage-height, 9.50 ft (2.896 m), from rating curve extended above 330 ft³/s (9.35 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.35 ft³/s (0.010 m³/s) Oct. 16, 17, 1977.

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 13	1645	517 14.6	3.49 1.064	Feb. 16	0100	1,090 30.9	5.48 1.670
Dec. 20	0215	660 18.7	3.97 1.210	Mar. 31	0800	1,160 32.9	5.75 1.753
Dec. 29	1500	678 19.2	4.03 1.228	Apr. 3	0400	745 21.1	4.31 1.314
Jan. 4	2245	*1,880 53.2	9.50 2.896	Apr. 11	0230	855 24.2	4.64 1.414

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.72	1.2	8.4	96	40	50	217	30	11	5.8	2.8	1.9
2	.61	1.5	7.3	90	38	80	291	29	10	5.6	2.7	1.9
3	.68	1.5	6.5	62	36	58	458	28	9.8	5.2	2.6	1.9
4	.67	1.5	6.0	913	33	47	193	27	9.8	5.2	2.5	1.9
5	.61	1.3	5.6	646	30	41	130	26	9.8	5.3	2.5	1.9
6	.74	.93	5.2	239	28	35	101	24	9.8	4.9	2.5	1.9
7	1.7	.93	4.7	152	27	32	86	24	9.8	4.6	2.8	1.7
8	1.0	.93	4.7	96	26	30	75	22	9.8	4.7	2.5	1.7
9	.74	1.2	6.8	73	25	28	67	22	9.4	4.6	2.4	1.8
10	.87	1.4	7.0	62	24	46	267	22	8.8	4.6	2.5	1.7
11	.93	1.5	5.3	54	23	69	549	21	8.5	4.6	2.6	1.6
12	.84	6.0	7.4	49	22	50	199	20	8.5	4.2	2.4	1.6
13	1.7	141	7.1	44	32	39	132	20	7.8	4.1	2.4	1.6
14	1.1	27	6.3	40	73	35	110	19	7.2	3.9	2.4	1.6
15	.97	17	6.1	38	395	33	91	19	7.2	3.8	2.3	1.6
16	1.0	25	5.7	34	426	72	80	18	6.9	3.8	2.2	1.6
17	.79	64	5.5	31	120	120	73	17	6.6	3.9	2.2	1.6
18	.75	12	5.5	29	84	105	66	17	6.8	3.9	2.2	1.6
19	.96	6.8	18	40	69	70	61	17	6.9	3.8	2.2	1.6
20	.85	5.0	328	97	56	57	57	16	6.9	3.8	2.2	1.5
21	.76	9.7	87	90	48	50	54	15	6.8	3.8	2.1	1.5
22	.76	10	49	56	42	46	50	15	6.3	3.4	2.0	1.5
23	.76	18	25	46	37	43	46	14	6.1	3.3	2.0	1.6
24	.76	44	18	41	33	40	43	14	6.2	3.3	2.0	2.3
25	.82	15	14	38	30	38	41	12	6.2	3.3	2.0	2.7
26	.88	13	13	56	27	39	39	12	6.1	3.3	2.0	2.0
27	4.1	29	14	44	25	34	37	12	5.8	3.3	2.0	1.8
28	17	17	11	73	23	46	35	11	5.6	3.3	2.0	1.7
29	5.0	12	246	56	---	103	33	12	6.3	3.1	2.0	1.6
30	2.0	10	110	47	---	139	32	11	6.2	2.9	2.0	1.5
31	1.4	---	87	43	---	584	---	11	---	2.9	1.9	---
TOTAL	52.47	495.39	1131.1	3475	1872	2259	3713	577	232.9	126.2	70.9	52.4
MEAN	1.69	16.5	36.5	112	66.9	72.9	124	18.6	7.76	4.07	2.29	1.75
MAX	17	141	328	913	426	584	549	30	11	5.8	2.8	2.7
MIN	.61	.93	4.7	29	22	28	32	11	5.6	2.9	1.9	1.5
AC-FT	104	983	2240	6890	3710	4480	7360	1140	462	250	141	104
CAL YR 1981	TOTAL	14077.53	MEAN	11.2	MAX	328	MIN	.61	AC-FT	8090		
WTR YR 1982	TOTAL	14057.36	MEAN	38.5	MAX	913	MIN	.61	AC-FT	27880		

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, Hydrologic Unit 18060001, 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 mi² (28.7 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 390 ft (119 m), from topographic map. Prior to Jan. 14, 1978, at datum 0.12 ft (0.037 m) higher.

REMARKS.--Records fair. No known regulation; only small diversion above station for individual use.

AVERAGE DISCHARGE.--25 years, 11.4 ft³/s (0.323 m³/s), 8,260 acre-ft/yr (10.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,620 ft³/s (131 m³/s) Jan. 14, 1978, gage height, 8.52 ft (2.597 m), from rating curve extended above 1,200 ft³/s (34.0 m³/s) on basis of slope-area measurement at gage-height 7.70 ft (2.347 m), maximum gage height, 8.86 ft (2.701 m) Jan. 4, 1982; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 450 ft³/s (12.7 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Jan. 4	Unknown	*3,670	104	8.86	2.701	Apr. 3	0500	614	17.4	4.10	1.250
Feb. 16	0030	1,010	28.6	4.82	1.469	Apr. 10	2215	1,620	45.9	5.76	1.756
Mar. 31	0915	871	24.7	4.57	1.393						

Minimum daily, 0.17 ft³/s (0.005 m³/s) Oct. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.17	.56	4.6	49	21	18	164	14	5.7	3.3	3.2	1.2
2	.17	.53	4.1	41	19	16	172	13	5.5	3.3	3.3	1.2
3	.26	.51	3.8	27	18	13	328	13	5.4	3.3	3.0	1.1
4	.26	.54	3.3	1690	16	11	122	12	5.3	3.3	1.7	1.1
5	.26	.56	3.1	600	15	8.2	78	11	5.2	3.3	1.7	1.1
6	.26	.56	2.9	80	14	7.0	60	11	5.1	3.3	1.6	1.1
7	.35	.56	2.7	47	14	6.4	48	11	5.1	3.2	1.6	1.1
8	.34	.56	2.5	38	13	6.0	41	10	5.0	3.2	1.6	1.1
9	.26	.56	2.8	29	13	6.1	35	9.8	5.0	3.1	1.6	1.0
10	.30	.59	3.2	24	12	7.2	328	9.6	4.8	3.0	1.5	1.0
11	.37	.61	2.7	20	11	8.0	495	9.3	4.7	3.0	1.5	1.0
12	.31	2.1	3.0	17	11	9.2	168	9.0	4.6	3.0	1.5	.98
13	.50	.68	3.4	15	14	7.0	97	8.8	4.5	3.0	1.5	1.0
14	.40	.18	2.5	13	34	6.5	74	8.6	4.4	2.9	1.5	1.1
15	.35	.15	2.4	12	404	6.9	57	8.3	4.3	2.8	1.5	1.2
16	.33	.13	2.3	12	348	8.0	48	8.1	4.2	2.8	1.4	1.3
17	.32	.62	2.3	12	86	10	42	7.9	4.1	2.8	1.4	1.4
18	.32	7.6	2.4	10	66	18	37	7.6	4.0	3.1	1.4	1.6
19	.33	4.7	7.0	21	36	27	33	7.5	3.9	3.5	1.4	1.5
20	.32	3.6	115	72	28	41	30	7.4	3.9	3.3	1.5	1.5
21	.33	4.2	26	52	23	35	27	7.2	3.9	3.6	1.4	1.5
22	.33	5.0	14	27	19	30	24	7.0	3.8	3.8	1.4	1.5
23	.32	5.9	10	21	16	26	22	6.9	3.7	3.7	1.4	1.6
24	.41	.13	8.1	20	14	23	21	6.7	3.7	3.6	1.3	1.7
25	.47	5.0	6.9	18	13	21	19	6.6	3.6	3.6	1.3	1.9
26	.44	6.4	6.3	28	12	23	17	6.5	3.5	3.6	1.3	1.7
27	.64	.16	7.9	21	11	19	16	6.3	3.5	3.6	1.3	1.5
28	5.8	.11	6.1	44	10	21	16	6.1	3.4	3.6	1.3	1.4
29	1.2	7.4	101	32	---	51	16	6.0	3.4	3.5	1.2	1.3
30	.67	5.5	50	26	---	47	15	5.9	3.4	3.5	1.2	1.1
31	.58	---	45	23	---	459	---	5.8	---	3.4	1.2	---
TOTAL	17.37	279.54	457.3	3141	1311	995.5	2650	267.9	130.6	102.0	49.7	38.78
MEAN	.56	9.32	14.8	101	46.8	32.1	88.3	8.64	4.35	3.29	1.60	1.29
MAX	5.8	.68	115	1690	404	459	495	14	5.7	3.8	3.3	1.9
MIN	.17	.51	2.3	10	10	6.0	15	5.8	3.4	2.8	1.2	.98
AC-FT	34	554	907	6230	2600	1970	5260	531	259	202	99	77

CAL YR 1981 TOTAL 1936.81 MEAN 5.31 MAX 130 MIN .14 AC-FT 3840
WTR YR 1982 TOTAL 9440.69 MEAN 25.9 MAX 1690 MIN .17 AC-FT 18730

NOTE.--No gage-height record Dec. 8-17, Feb. 18 to Mar. 19, May 11 to July 6, Sept. 17-30.

SAN LORENZO RIVER BASIN

11160500 SAN LORENZO RIVER AT BIG TREES, CA

LOCATION.--Lat 37°02'40", long 122°04'17", in Zayante Grant, Santa Cruz County, Hydrologic Unit 18060001, 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 mi² (275 km²).

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) Santa Cruz County datum. Prior to Oct. 6, 1972, at site 1.3 mi (2.1 km) downstream at different datum.

REMARKS.--Records good. Flow regulated by Loch Tomond Reservoir since 1961, capacity, 8,400 acre-ft (10.4 hm³). Many small diversions above station for domestic supply.

AVERAGE DISCHARGE.--46 years, 135 ft³/s (3.820 m³/s), 97,810 acre-ft/yr (121 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,400 ft³/s (861 m³/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 ft³/s (312 m³/s) on basis of slope-area measurement of maximum flow, maximum gage height, 28.85 ft (8.793 m) Jan. 5, 1982; minimum, 0.8 ft³/s (0.023 m³/s), regulated, June 25, 1939; minimum daily, 5.6 ft³/s (0.16 m³/s) July 27, 28, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,800 ft³/s (51 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 20	0545	1,950 55.2	9.01 2.746	Mar. 31	1115	8,670 246	17.16 5.230
Dec. 29	1715	3,250 92.0	11.21 3.417	Apr. 3	0615	4,140 117	12.82 3.908
Jan. 5	0045	*29,700 841	28.85 8.793	Apr. 10	2300	8,410 238	16.94 5.163
Feb. 16	0215	8,720 247	17.20 5.243				

Minimum daily, 10 ft³/s (0.28 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	16	60	518	301	598	1600	221	83	47	36	28
2	11	16	54	491	290	631	1550	212	79	47	37	28
3	11	15	50	348	264	506	2790	199	79	46	37	28
4	11	15	46	14700	255	441	1320	185	77	46	35	27
5	11	15	43	7580	231	386	1020	181	71	45	39	27
6	11	15	41	1460	217	344	877	174	73	45	38	27
7	13	15	39	986	207	323	748	168	77	44	38	27
8	13	16	38	773	200	320	671	170	72	44	39	27
9	12	16	39	613	182	300	614	154	73	44	36	26
10	12	17	48	556	174	348	2020	150	65	43	36	26
11	12	17	39	493	161	483	4170	154	71	43	34	26
12	12	42	44	444	158	403	1350	142	67	43	34	26
13	13	583	50	403	235	361	1090	145	64	43	34	26
14	13	295	42	355	395	361	957	133	61	41	36	26
15	12	138	40	326	2450	329	798	121	61	44	34	26
16	12	139	39	293	3510	496	672	118	58	42	34	26
17	12	432	37	268	879	936	619	113	56	43	33	25
18	12	105	37	252	673	821	556	109	55	43	32	25
19	12	64	59	307	576	602	510	113	54	43	32	25
20	13	50	998	637	510	526	477	105	54	42	32	25
21	12	54	378	600	457	465	431	102	53	41	32	25
22	12	74	238	430	401	418	404	103	52	39	31	24
23	12	74	162	355	352	381	365	105	52	39	31	25
24	12	186	128	323	319	356	347	105	51	50	30	28
25	14	94	107	300	304	340	322	96	50	41	30	31
26	14	95	93	401	305	354	309	93	50	45	30	29
27	16	185	100	319	310	317	282	91	49	47	29	25
28	89	122	87	538	303	354	267	85	49	42	29	23
29	37	86	1030	428	---	561	252	93	48	38	29	22
30	21	70	620	361	---	605	236	90	48	36	29	22
31	17	---	435	328	---	4300	---	87	---	37	28	---
TOTAL	494	3061	5221	36186	14619	17966	27624	4117	1852	1333	1034	781
MEAN	15.9	102	168	1167	522	580	921	133	61.7	43.0	33.4	26.0
MAX	89	583	1030	14700	3510	4300	4170	221	83	50	39	31
MIN	10	15	37	252	158	300	236	85	48	36	28	22
AC-FT	980	6070	10360	71770	29000	35640	54790	8170	3670	2640	2050	1550

CAL YR 1981	TOTAL	25133.5	MEAN	68.9	MAX	1490	MIN	9.0	AC-FT	49850
WTR YR 1982	TOTAL	114288.0	MEAN	313	MAX	14700	MIN	10	AC-FT	226700

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: May 1966 to February 1979.

SEDIMENT RECORDS: October 1972 to September 1982 (discontinued).

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 10,700 mg/L Jan. 4, 1982; minimum daily mean, 1 mg/L on several days in 1972-74, 1975, 1980, 1981.

SEDIMENT DISCHARGE: Maximum daily, 609,000 tons (552,000 metric tons) Jan. 4, 1982; minimum daily, 0.03 ton (0.03 metric ton) several days in 1981.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 10,700 mg/L Jan. 4; minimum daily mean, 2 mg/L several days.

SEDIMENT DISCHARGE: Maximum daily, 609,000 tons (552,000 metric tons) Jan. 4; minimum daily, 0.05 ton (0.05 metric ton) Oct. 1.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE-DAILY

[illegible]

SAN LORENZO RIVER BASIN

11160500 SAN LORENZO RIVER AT BIG TREES, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	10	2	.05	16	6	.26	60	6	.97
2	11	2	.06	16	7	.30	54	5	.73
3	11	2	.06	15	6	.24	50	4	.54
4	11	2	.06	15	4	.16	46	4	.50
5	11	2	.06	15	2	.08	43	3	.35
6	11	2	.06	15	2	.08	41	3	.33
7	13	3	.12	15	3	.12	39	4	.42
8	13	2	.07	16	3	.13	38	5	.51
9	12	2	.06	16	3	.13	39	4	.47
10	12	2	.06	17	3	.14	48	8	1.1
11	12	2	.06	17	3	.14	39	5	.53
12	12	2	.06	42	13	2.0	44	6	.69
13	13	2	.07	583	2290	7360	50	7	1.0
14	13	2	.07	295	672	1230	42	4	.45
15	12	3	.10	138	77	30	40	4	.43
16	12	3	.10	139	137	104	39	3	.32
17	12	3	.10	432	869	1720	37	3	.30
18	12	3	.10	105	52	15	37	2	.20
19	12	3	.10	64	10	1.7	59	33	8.3
20	13	3	.11	50	6	.81	998	2210	8020
21	12	3	.10	54	22	3.8	378	236	264
22	12	3	.10	74	38	8.1	238	38	24
23	12	4	.13	74	25	6.8	162	20	8.7
24	12	5	.16	186	49	29	128	16	5.5
25	14	5	.19	94	4	1.0	107	12	3.5
26	14	5	.19	95	13	3.5	93	6	1.5
27	16	7	.32	185	43	22	100	10	2.8
28	89	72	20	122	19	6.3	87	7	1.6
29	37	37	4.2	86	10	2.3	1030	2710	17200
30	21	16	.91	70	8	1.5	620	1790	3850
31	17	8	.37	---	---	---	435	347	558
TOTAL	494	---	28.20	3061	---	10549.59	5221	---	29957.74

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	518	285	442	301	380	309	598	2340	4070
2	491	373	521	290	430	337	631	1340	2390
3	348	88	88	264	430	307	506	280	383
4	14700	10700	609000	255	420	289	441	190	226
5	7580	9550	325000	231	410	256	386	125	130
6	1460	1700	6700	217	400	234	344	110	102
7	986	1030	2740	207	390	218	323	135	118
8	773	650	1360	200	380	205	320	155	134
9	613	350	579	182	370	182	300	155	126
10	556	235	353	174	360	169	348	774	943
11	493	180	240	161	355	154	483	2030	2730
12	444	150	180	158	350	149	403	700	762
13	403	140	152	235	741	546	361	350	341
14	355	120	115	395	998	1520	361	220	214
15	326	115	101	2450	5530	48400	329	100	89
16	293	115	91	3510	9100	122000	496	1510	2150
17	268	120	87	879	2900	6880	936	3820	10200
18	252	125	85	673	1600	2910	821	2490	5690
19	307	392	468	576	980	1520	602	1620	2630
20	637	1770	3170	510	550	757	526	1050	1490
21	600	1000	1620	457	210	259	465	510	640
22	430	700	813	401	80	87	418	200	226
23	355	540	518	352	65	62	381	120	123
24	323	420	366	319	65	56	356	100	96
25	300	400	324	304	64	53	340	90	83
26	401	1010	1150	305	67	55	354	75	72
27	319	550	474	310	70	59	317	65	56
28	538	1380	2060	303	70	57	354	209	213
29	428	790	913	---	---	---	561	2280	4380
30	361	540	526	---	---	---	605	1160	2300
31	328	400	354	---	---	---	4300	5550	78300
TOTAL	36186	---	960590	14619	---	188030	17966	---	121407

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	47	10	1.3	36	5	.49	28	11	.83
2	47	9	1.1	37	5	.50	28	10	.76
3	46	9	1.1	37	5	.50	28	9	.68
4	46	9	1.1	35	5	.47	27	9	.66
5	45	8	.97	39	6	.63	27	10	.73
6	45	8	.97	38	7	.72	27	10	.73
7	44	7	.83	38	7	.72	27	10	.73
8	44	7	.83	39	8	.84	27	9	.66
9	44	8	.95	36	8	.88	26	9	.63
10	43	9	1.0	36	8	.78	26	8	.56
11	43	9	1.0	34	9	.83	26	8	.56
12	43	9	1.0	34	10	.92	26	7	.49
13	43	10	1.2	34	11	1.0	26	6	.42
14	41	10	1.1	36	13	1.3	26	5	.35
15	44	9	1.1	34	12	1.1	26	4	.28
16	42	8	.91	34	11	1.0	26	4	.28
17	43	6	.70	33	10	.89	25	5	.34
18	43	9	1.0	32	9	.78	25	5	.34
19	43	11	1.3	32	9	.78	25	5	.34
20	42	13	1.5	32	10	.86	25	6	.41
21	41	9	1.0	32	10	.86	25	7	.47
22	39	6	.63	31	10	.84	24	6	.39
23	39	6	.63	31	11	.92	25	9	.61
24	50	6	.81	30	11	.89	28	13	1.0
25	41	6	.66	30	12	.97	31	11	.97
26	45	6	.73	30	13	1.1	29	9	.72
27	47	6	.76	29	14	1.1	25	8	.54
28	42	6	.68	29	15	1.2	23	7	.43
29	38	6	.62	29	14	1.1	22	6	.36
30	36	6	.58	29	13	1.0	22	4	.24
31	37	5	.50	28	12	.91	---	---	---
TOTAL	1333	---	28.56	1034	---	26.78	781	---	16.51

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SAN LORENZO RIVER BASIN

11160500 SAN LORENZO RIVER AT BIG TREES, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1981	494.00	28.20	28	56
NOVEMBER ...	3061.00	10549.59	1900	12400
DECEMBER ...	5221.00	29957.74	4420	34400
JANUARY 1982	36186.00	960590.00	32200	993000
FEBRUARY ...	14619.00	188030.00	14800	203000
MARCH	17966.00	121407.00	18400	140000
APRIL	27624.00	221413.00	31400	253000
MAY	4117.00	325.50	1980	2310
JUNE	1852.00	141.10	323	464
JULY	1333.00	28.56	107	136
AUGUST	1034.00	26.78	45	72
SEPTEMBER ..	781.00	16.51	14	31
TOTAL	114288.00	1532513.98	105617	1638869

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
		MAY								
28...	1515	4	20	78	100	--	--	--	--	--
28...	1520	--	--	1	44	92	98	100	--	--
28...	1525	--	--	4	38	78	93	98	100	--
28...	1530	--	--	3	29	69	89	96	99	100
28...	1535	12	46	90	98	99	100	--	--	--

11161800 SAN VICENTE CREEK NEAR DAVENPORT, CA

LOCATION.--Lat 37°03'19", long 122°10'52", on east boundary of San Vicente Grant, Santa Cruz County, Hydrologic Unit 18060001, 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 mi² (15.72 km²).

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 fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--13 years, 8.70 ft³/s (0.246 m³/s), 6,300 acre-ft/yr (7.77 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,280 ft³/s (64.6 m³/s) Jan. 4, 1982, gage height, 8.90 ft (2.713 m); no flow Sept. 9-18, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft³/s (2.83 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Dec. 29	1645	147	4.16	4.32	1.317
Jan. 4	1600	*2,280	64.6	8.90	2.713
Feb. 16	0115	469	13.3	5.44	1.658

Minimum daily, 0.77 ft³/s (0.022 m³/s) several days during October.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.77	.90	3.4	35	17	25	100	19	7.8	5.7	4.7	2.9
2	.77	.86	3.0	24	15	26	140	17	7.8	5.7	4.7	2.8
3	.93	.83	2.8	18	14	19	200	16	7.6	5.6	4.7	2.6
4	.86	.80	2.6	854	14	17	80	15	7.4	5.6	4.7	2.6
5	.86	.84	2.4	229	13	15	45	15	7.4	5.6	4.6	2.6
6	.86	.86	2.2	68	13	15	34	14	7.3	5.5	4.5	2.6
7	1.3	.86	2.2	49	13	14	30	14	7.2	5.5	4.5	2.4
8	1.0	.87	2.1	39	12	14	27	13	7.1	5.5	4.3	2.3
9	.86	.87	2.2	34	12	14	24	13	7.0	5.4	4.3	2.3
10	1.0	.89	2.4	25	12	16	150	12	6.9	5.4	4.3	2.3
11	.99	1.4	2.2	21	12	20	720	12	6.9	5.4	4.2	2.3
12	.94	3.7	2.5	19	11	16	300	12	6.9	5.4	4.2	2.2
13	.94	16	2.6	16	12	15	170	11	6.8	5.4	4.2	2.1
14	.87	8.4	2.6	14	28	15	125	11	6.7	5.3	4.2	2.1
15	.86	5.0	2.4	12	153	14	90	10	6.6	5.3	4.2	2.1
16	.86	4.5	2.3	12	201	16	75	10	6.5	5.3	4.1	2.2
17	.86	11	2.3	12	81	29	63	9.8	6.5	5.3	4.0	2.2
18	.86	4.2	2.3	11	55	31	59	9.6	6.4	5.3	3.9	2.2
19	.86	2.8	4.0	13	32	26	51	9.5	6.3	5.2	3.8	2.1
20	.86	2.3	4.6	21	27	22	46	9.3	6.2	5.2	3.7	2.1
21	.83	2.9	17	23	23	19	40	9.1	6.2	5.2	3.5	2.1
22	.77	3.6	11	18	20	17	37	8.9	6.1	5.2	3.1	2.1
23	.77	4.1	8.6	16	18	16	34	8.7	6.0	5.2	3.1	2.1
24	.77	11	7.2	15	17	15	32	8.5	6.0	5.2	3.1	2.0
25	.77	5.4	6.3	14	16	15	30	8.4	6.0	5.1	3.1	2.1
26	.82	5.0	5.9	21	15	15	28	8.4	5.9	5.1	3.1	2.2
27	1.0	7.7	6.8	18	15	14	26	8.4	5.9	5.1	3.0	2.2
28	3.6	5.8	5.7	27	14	15	25	8.3	5.8	5.1	2.9	2.2
29	2.2	4.5	45	25	---	19	23	8.2	5.8	5.0	2.9	2.2
30	1.3	3.9	35	21	---	20	21	8.1	5.7	4.9	2.9	2.1
31	.96	---	30	18	---	560	---	8.0	---	4.7	2.9	---
TOTAL	31.90	121.78	273.0	1742	885	1104	2825	345.2	198.7	164.4	119.4	68.3
MEAN	1.03	4.06	8.81	56.2	31.6	35.6	94.2	11.1	6.62	5.30	3.85	2.28
MAX	3.6	16	46	854	201	560	720	19	7.8	5.7	4.7	2.9
MIN	.77	.80	2.1	11	11	14	21	8.0	5.7	4.7	2.9	2.0
AC-FT	63	242	541	3460	1760	2190	5600	685	394	326	237	135
CAL YR 1981 TOTAL	1359.75			3.73	54	.62	2700					
WTR YR 1982 TOTAL	7878.68			21.6	854	.77	15630					

PESCADERO CREEK BASIN

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, Hydrologic Unit 18050006, on left bank at downstream side of highway bridge, 3.0 mi (4.8 km) east of Pescadero, and 5.3 mi (8.5 km) upstream from mouth.

DRAINAGE AREA.--45.9 mi² (118.9 km²).

PERIOD OF RECORD.--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) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for periods of no gage height record, which are poor. 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.--31 years, 41.3 ft³/s (1.170 m³/s), 29,920 acre-ft/yr (36.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,420 ft³/s (267 m³/s) Dec. 23, 1955, gage height, 21.27 ft (6.483 m), from rating curve extended above 2,700 ft³/s (76.5 m³/s) on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft³/s (19.8 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 29	1830	1,320 37.4	8.03 2.448	Mar. 31	1145	4,320 122	14.20 4.328
Jan. 4	Unknown	*9,400 266	20.92 6.376	Apr. 3	0715	1,570 44.5	9.14 2.786
Feb. 16	Unknown	4,240 120	14.06 4.285	Apr. 11	0530	4,140 117	13.90 4.237

Minimum daily, 0.64 ft³/s (0.018 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.64	2.3	21	188	95	160	875	74	24	14	5.9	7.1
2	1.0	1.8	17	180	90	200	577	71	24	14	5.4	7.1
3	1.2	1.6	15	126	85	160	1200	68	23	13	5.5	7.1
4	1.3	1.6	14	3500	80	140	657	63	22	12	5.7	7.1
5	1.3	1.6	13	1000	76	120	411	60	21	12	5.4	7.1
6	1.3	1.6	12	560	70	115	318	57	20	11	5.4	6.8
7	1.7	1.6	12	330	66	105	245	56	21	11	5.4	6.8
8	2.2	1.6	11	240	63	102	202	54	20	11	5.2	6.7
9	2.6	1.7	12	181	59	97	172	53	18	11	5.2	6.5
10	2.3	1.8	14	147	55	115	298	51	15	11	5.4	6.4
11	2.2	1.8	11	126	52	150	1840	50	17	10	5.7	6.0
12	2.1	3.6	10	110	50	128	744	49	16	10	5.7	6.2
13	2.1	63	12	97	95	117	479	46	17	10	5.8	6.6
14	1.9	116	12	87	250	110	345	45	17	9.9	5.9	5.3
15	1.7	28	11	78	600	105	280	43	15	9.6	5.8	4.8
16	1.7	34	11	70	1150	134	230	41	14	9.4	6.2	5.0
17	1.6	97	11	74	450	242	200	40	14	9.3	6.1	5.2
18	1.5	41	10	61	290	248	175	39	14	9.0	7.8	5.1
19	1.3	27	12	67	220	183	155	39	14	8.6	8.4	4.8
20	1.3	21	299	208	178	149	145	36	13	8.0	8.6	4.4
21	1.2	18	121	324	148	134	130	35	13	7.9	8.9	4.1
22	1.2	31	68	195	134	123	120	34	13	7.4	9.1	4.0
23	1.3	24	49	146	120	110	116	33	13	7.3	9.1	3.9
24	1.3	66	39	110	105	100	108	31	13	7.1	9.1	4.5
25	1.6	43	33	97	99	93	102	28	13	7.1	9.1	6.2
26	1.9	37	29	135	98	86	96	27	12	7.0	9.1	6.9
27	2.5	55	41	105	98	84	91	27	12	6.8	9.1	5.1
28	25	45	36	173	125	99	86	26	11	6.7	8.9	4.6
29	15	33	354	135	---	190	83	25	14	6.2	7.8	5.1
30	6.2	27	306	115	---	224	77	25	17	6.2	7.7	5.8
31	3.3	---	136	105	---	2250	---	24	---	5.9	7.1	---
TOTAL	93.44	828.6	1752	9070	5001	6373	10557	1350	490	289.4	215.5	172.3
MEAN	3.01	27.6	56.5	293	179	206	352	43.5	16.3	9.34	6.95	5.74
MAX	25	116	354	3500	1150	2250	1840	74	24	14	9.1	7.1
MIN	.64	1.6	10	61	50	84	77	24	11	5.9	5.2	3.9
AC-FT	185	1640	3480	17990	9920	12640	20940	2680	972	574	427	342

CAL YR 1981 TOTAL 7233.65 MEAN 19.8 MAX 400 MIN .34 AC-FT 14350
WTR YR 1982 TOTAL 36192.24 MEAN 99.2 MAX 3500 MIN .64 AC-FT 71790

NOTE.--No gage height record Dec. 1-10, Jan. 24 to Feb. 19, Feb. 23 to Mar. 25, Apr. 13-22.

11162570 SAN GREGORIO CREEK AT SAN GREGORIO, CA

LOCATION.--Lat 37°19'33", long 122°23'08", in San Gregorio Grant, San Mateo County, Hydrologic Unit 18050006, 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 mi² (131.8 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 11.40 ft (3.475 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--13 years, 38.8 ft³/s (1.099 m³/s), 28,110 acre-ft/yr (34.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,910 ft³/s (224 m³/s) Jan. 4, 1982, gage height, 21.28 ft (6.486 m); no flow many days in 1972 and 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 20	0445	1,610 45.6	9.58 2.920	Mar. 31	1130	2,260 64.0	11.18 3.408
Dec. 29	1710	4,050 115	14.87 4.532	Apr. 3	0530	1,300 36.8	8.80 2.682
Jan. 4	2000	*7,910 224	21.28 6.486	Apr. 11	0330	1,310 37.1	8.78 2.676
Feb. 16	0415	3,780 107	14.37 4.380				

Minimum daily, 0.03 ft³/s (<0.001 m³/s) Oct. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	1.1	15	346	88	118	776	53	25	20	7.1	4.7
2	.05	.96	13	376	78	108	656	52	25	19	6.9	3.7
3	.03	.96	13	229	70	86	858	50	24	17	6.9	3.7
4	.04	.96	11	4120	63	74	500	49	23	16	7.4	3.4
5	.40	.94	11	1800	56	66	346	47	22	16	6.9	3.8
6	.07	.90	10	466	51	60	273	45	23	15	6.6	3.4
7	.35	.95	10	262	47	56	201	44	23	14	6.4	3.1
8	1.8	.92	9.7	182	44	55	165	43	22	14	6.3	3.1
9	1.4	.96	10	143	41	51	144	41	21	13	6.0	3.4
10	1.2	.96	12	120	39	52	311	38	21	12	7.1	3.8
11	1.5	.93	9.8	101	37	67	1250	39	20	12	6.6	3.6
12	1.5	3.4	11	88	35	53	362	41	20	11	6.5	3.2
13	1.2	61	11	79	48	48	250	40	21	11	6.4	2.9
14	1.1	49	11	70	284	59	221	39	20	10	7.0	2.7
15	1.2	18	11	73	1620	49	164	38	20	9.7	7.9	3.1
16	1.1	19	12	57	1630	95	138	36	19	9.2	7.4	3.8
17	.81	44	12	53	377	197	120	36	19	9.0	6.6	3.9
18	.14	27	11	50	185	135	111	35	19	8.6	6.9	3.7
19	.31	18	27	80	150	112	101	34	19	8.4	6.8	3.4
20	.25	16	889	420	130	93	93	33	20	7.9	7.2	2.8
21	.84	16	272	290	110	80	89	34	20	7.4	6.3	2.8
22	.91	29	142	142	94	71	89	35	19	7.2	6.8	3.0
23	.93	23	97	110	83	64	83	33	19	6.8	6.0	3.2
24	.92	66	77	93	76	58	78	32	19	7.1	5.6	5.8
25	1.0	40	66	81	70	55	74	30	19	7.7	6.5	8.1
26	1.1	67	60	153	65	66	68	29	18	7.8	6.8	8.0
27	1.3	165	144	102	63	55	63	29	18	7.7	6.8	5.2
28	9.7	56	97	234	59	69	61	28	18	7.5	6.6	4.8
29	5.2	27	1220	156	---	145	58	26	20	7.2	7.0	4.1
30	2.4	20	652	119	---	157	55	26	19	7.1	6.4	3.3
31	1.5	---	326	102	---	1500	---	26	---	7.1	5.4	---
TOTAL	40.41	774.94	4272.5	10697	5693	3954	7758	1161	615	333.4	207.1	117.5
MEAN	1.30	25.8	138	345	203	128	259	37.5	20.5	10.8	6.68	3.92
MAX	9.7	165	1220	4120	1630	1500	1250	53	25	20	7.9	8.1
MIN	.03	.90	9.7	50	35	48	55	26	18	6.8	5.4	2.7
AC-FT	80	1540	8470	21220	11290	7840	15390	2300	1220	661	411	233
CAL YR 1981 TOTAL		9574.73		MEAN 26.2	MAX 1220	MIN .01	AC-FT 18990					
WTR YR 1982 TOTAL		35623.85		MEAN 97.6	MAX 4120	MIN .03	AC-FT 70660					

PILARCITOS CREEK BASIN

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, Hydrologic Unit 18050006, 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 mi² (70.4 km²).

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

GAGE.---Water-stage recorder. Datum of gage is 23.59 ft (7.190 m) National Geodetic Vertical Datum of 1929.

REMARKS.---Records poor. Flow partly regulated by storage in Pilarcitos Lake 10 mi (16 km) upstream, capacity, 3,100 acre-ft (3.82 hm³). Water is diverted to City of San Francisco Water System; small diversions for irrigation above station by pumping.

AVERAGE DISCHARGE (unadjusted).---16 years, 13.8 ft³/s (0.391 m³/s), 10,000 acre-ft/yr (12.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.---Maximum discharge, 4,750 ft³/s (135 m³/s) Jan. 4, 1982, gage height, 13.08 ft (3.987 m); no flow at times in most years.

EXTREMES FOR CURRENT YEAR.---Peak discharges above base of 200 ft³/s (5.66 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 20	0745	448 12.7	6.14 1.871	Feb. 16	0330	1,150 32.5	10.46 3.188
Dec. 29	1515	814 23.1	8.49 2.588	Mar. 31	Unknown	Unknown	Unknown
Jan. 4	2145	*4,750 135	13.08 3.987	Apr. 11	Unknown	660 18.7	7.56 2.304

Minimum, no flow many days during October.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	2.3	7.5	67	48	55	450	23	7.5	5.9	2.1	1.4
2	0	.99	6.5	78	42	47	350	22	7.4	5.5	2.1	1.2
3	0	.64	6.6	72	37	40	440	22	7.2	5.4	2.1	1.1
4	0	.58	6.3	2150	33	35	310	21	6.8	4.9	2.2	1.1
5	0	.73	5.7	900	30	31	200	20	6.8	4.7	2.0	1.1
6	0	.63	5.4	190	27	29	145	20	7.0	4.4	2.0	1.0
7	0	.49	4.9	135	25	27	120	19	6.8	4.2	1.9	.95
8	0	.79	4.1	90	23	26	90	18	6.6	4.0	1.9	.95
9	0	.67	4.4	72	22	25	77	18	6.4	3.8	1.8	1.0
10	0	2.4	4.3	61	21	24	185	17	6.2	3.6	2.1	1.1
11	0	1.1	3.9	53	20	31	430	17	6.0	3.5	2.0	1.1
12	0	9.8	4.4	45	19	25	190	18	6.0	3.3	2.0	.96
13	0	32	4.6	39	18	23	115	18	6.3	3.2	2.0	.86
14	0	14	5.2	36	17	27	90	17	6.0	3.1	2.2	.92
15	0	7.1	5.0	32	570	24	74	16	5.9	2.9	2.3	.96
16	0	6.8	4.7	30	860	47	63	16	5.8	2.8	2.2	1.1
17	0	11	4.3	28	125	90	53	15	5.7	2.7	2.0	1.2
18	0	5.6	5.1	26	82	64	47	14	5.7	2.5	2.1	1.1
19	0	4.6	25	25	63	48	45	13	5.7	2.4	2.0	.98
20	0	4.0	288	175	54	41	41	13	6.0	2.3	2.2	.85
21	0	9.0	78	130	47	36	39	12	5.9	2.2	1.9	.74
22	0	12	34	65	40	31	38	11	5.8	2.2	2.0	.80
23	0	9.7	23	55	36	28	36	11	5.6	2.1	1.8	1.2
24	0	17	18	46	33	25	33	10	5.6	2.1	1.7	1.6
25	0	9.6	15	43	30	24	31	9.6	5.6	2.3	2.0	1.9
26	0	14	15	78	29	28	29	9.0	5.4	2.3	2.0	1.6
27	1.2	30	23	54	28	24	28	8.6	5.4	2.3	2.0	1.3
28	16	16	17	120	27	35	26	8.2	5.6	2.2	2.0	1.1
29	7.3	11	307	78	---	47	25	7.8	6.0	2.1	2.1	.93
30	4.5	8.6	237	60	---	63	24	7.7	5.7	2.1	1.9	.70
31	3.0	---	96	53	---	780	---	7.6	---	2.1	1.7	---
TOTAL	32.0	243.12	1268.9	5086	2406	1880	3824	459.5	184.4	99.1	62.3	32.80
MEAN	1.03	8.10	40.9	164	85.9	60.6	127	14.8	6.15	3.20	2.01	1.09
MAX	16	32	307	2150	860	780	450	23	7.5	5.9	2.3	1.9
MIN	0	.49	3.9	25	17	23	24	7.6	5.4	2.1	1.7	.70
AC-FT	63	482	2520	10090	4770	3730	7580	911	366	197	124	65

CAL YR 1981 TOTAL 2725.29 MEAN 7.47 MAX 307 MIN 0 AC-FT 5410
 WTH YR 1982 TOTAL 15578.12 MEAN 42.7 MAX 2150 MIN 0 AC-FT 30900

11162720 COLMA CREEK AT SOUTH SAN FRANCISCO, CA

LOCATION.--Lat 37°39'14", long 122°25'31", in Buri Buri Grant, San Mateo County, Hydrologic Unit 18050004, on left bank in Orange Memorial Park, 1.0 mi (1.6 km) southwest of South San Francisco Post Office.

DRAINAGE AREA.--10.8 mi² (28.0 km²).

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) National Geodetic Vertical Datum of 1929. 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 Mountain, 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.--19 years, 7.20 ft³/s (0.204 m³/s), 5,220 acre-ft/yr (6.44 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,880 ft³/s (81.6 m³/s) Jan. 16, 1973, gage height, 11.80 ft (3.597 m); no flow Oct. 5, 26, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 900 ft³/s (25.5 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 13	1215	1,120 31.7	7.85 2.393	Jan. 4	2315	*2,550 72.2	11.63 3.545
Nov. 26	0415	1,160 32.9	7.97 2.429	Feb. 15	1015	1,340 37.9	8.51 2.594
Dec. 29	1415	1,060 30.0	7.67 2.338	Mar. 31	0700	1,240 35.1	8.20 2.499

Minimum daily, 0.56 ft³/s (0.016 m³/s) several days during November.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	.78	1.4	26	3.1	72	94	1.3	1.4	2.8	2.9	.78
2	9.1	.78	1.3	31	3.3	66	76	1.4	1.7	2.8	2.6	.79
3	1.7	.78	1.3	31	3.6	5.5	40	1.3	1.6	2.8	3.1	.79
4	1.1	.56	1.3	820	3.5	3.1	9.7	1.3	1.7	2.8	3.2	.78
5	.78	.56	1.3	243	3.1	3.7	14	1.3	1.3	2.3	2.3	.78
6	.78	.56	1.3	27	3.1	2.0	3.4	1.4	1.3	2.3	2.4	.78
7	24	.56	1.2	15	3.1	2.5	4.5	1.3	1.4	2.3	2.0	.79
8	1.1	.56	1.1	9.1	3.1	3.9	3.4	1.3	1.5	2.3	2.0	.81
9	1.1	.57	9.9	6.2	3.1	3.0	3.1	1.3	1.4	2.2	1.8	.83
10	5.3	.56	1.3	5.7	3.1	22	151	1.3	1.7	2.0	1.7	.83
11	1.1	.56	1.3	5.2	3.0	14	75	1.3	1.9	2.3	1.3	.78
12	1.0	75	16	4.6	2.8	2.2	15	1.2	1.4	2.3	1.1	.78
13	1.0	160	3.1	4.3	23	2.0	5.4	1.1	1.3	2.3	1.1	.78
14	1.1	4.5	1.8	4.3	96	25	6.3	1.1	1.4	2.3	1.1	.78
15	.78	2.9	2.8	3.8	256	2.9	3.5	1.1	1.5	3.0	1.1	.78
16	.78	22	1.3	3.4	76	59	3.1	1.1	1.4	2.8	1.1	1.1
17	.78	5.7	1.3	3.8	21	58	3.0	1.1	1.3	2.5	1.1	5.8
18	.78	1.3	18	19	7.4	12	2.6	1.1	1.4	2.1	.92	3.8
19	.94	1.4	141	32	5.5	4.1	2.3	1.1	1.7	2.2	1.0	2.8
20	1.1	1.5	62	45	4.5	3.6	1.7	1.1	1.8	2.6	1.1	2.5
21	1.1	53	22	5.3	3.4	3.2	1.7	1.1	1.7	2.3	.95	2.3
22	1.1	17	3.5	3.2	3.1	2.9	1.8	.94	1.7	2.3	.78	2.3
23	1.1	17	2.4	3.2	3.1	2.3	2.0	.78	1.7	2.3	.78	12
24	1.1	1.8	2.2	3.1	2.8	2.3	2.0	.91	1.7	2.4	.78	12
25	1.5	1.4	2.0	4.3	2.8	6.6	2.0	1.4	2.1	3.3	1.0	17
26	1.1	42	11	25	2.8	9.5	2.0	1.4	2.0	3.2	.89	1.7
27	50	59	4.5	3.1	3.9	2.0	2.0	1.3	2.0	3.2	1.1	1.7
28	88	3.3	2.0	47	3.1	31	2.0	1.4	2.0	2.9	1.1	1.3
29	2.7	1.7	185	3.4	---	48	1.7	1.3	14	2.4	1.1	1.3
30	1.3	1.7	22	3.1	---	76	1.7	1.4	2.9	2.2	1.1	1.3
31	.98	---	41	3.1	---	289	---	1.3	---	2.7	.78	---
TOTAL	206.00	479.03	567.6	1443.2	552.3	839.3	536.4	37.73	61.9	78.2	45.28	80.76
MEAN	6.65	16.0	18.3	46.6	19.7	27.1	17.9	1.22	2.06	2.52	1.46	2.69
MAX	88	160	185	820	256	289	151	1.4	14	3.3	3.2	17
MIN	.78	.56	1.1	3.1	2.8	2.0	1.7	.78	1.3	2.0	.78	.78
AC-FT	409	950	1130	2860	1100	1660	1060	75	123	155	90	160
a	1.26	3.54	1.46	6.20	1.85	4.41	1.68	0	.26	.08	.12	.69
b	--	4.93	3.90	6.22	--	6.40	3.44	.01	.24	.06	.03	.74

CAL YR 1981 TOTAL 2706.81 MEAN 7.42 MAX 203 MIN .40 AC-FT 5370 a 14.97
WTR YR 1982 TOTAL 4927.70 MEAN 13.5 MAX 820 MIN .56 AC-FT 9770 a 21.55

a Precipitation, in inches, at San Bruno Mt. gage.
b Precipitation, in inches, at Skyline College gage.

COLMA CREEK BASIN

11162720 COLMA CREEK AT SOUTH SAN FRANCISCO, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966-77, 1981 to September 1982 (discontinued).

WATER TEMPERATURES: Water years 1970-76.

SEDIMENT RECORDS: Water years 1966-76, 1981 to September 1982 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1969 to September 1976.

SEDIMENT RECORDS: October 1965 to March 1976 (seasonal record only for water years 1972-76).

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
NOV								
13...	0910	103	15.0	252	70	--	--	--
13...	0930	52	15.0	145	20	--	--	--
13...	1015	177	15.0	311	149	--	--	--
13...	1050	186	15.0	368	185	--	--	--
13...	1115	149	15.0	239	96	--	--	--
13...	1145	719	15.0	1200	2330	--	--	--
13...	1215	976	15.0	2200	5800	--	--	--
13...	1300	536	15.0	819	1190	26	34	41
13...	1345	327	15.0	792	699	--	--	--
13...	1430	174	15.0	491	231	--	--	--
DEC								
29...	0925	784	12.0	957	2030	--	--	--
29...	0945	790	12.0	1190	2540	--	--	--
29...	1000	650	12.0	1000	1760	--	--	--
29...	1015	608	12.0	986	1620	--	--	--
29...	1045	348	12.0	769	723	--	--	--
29...	1115	556	12.0	662	994	--	--	--
29...	1145	774	12.0	738	1540	--	--	--
29...	1215	880	12.0	1010	2400	--	--	--
29...	1245	456	12.0	796	980	--	--	--
29...	1315	330	12.0	599	534	--	--	--
29...	1345	351	12.0	480	455	--	--	--
29...	1415	1060	12.0	2150	6150	--	--	--
29...	1430	657	12.0	1330	2360	--	--	--
29...	1445	354	13.0	1050	1000	--	--	--
30...	1100	33	13.5	313	28	--	--	--
JAN								
08...	1445	9.1	--	2930	72	--	--	--
MAR								
01...	1045	422	13.0	1060	1210	--	--	--
01...	1100	409	13.0	878	970	--	--	--
01...	1145	296	--	542	433	--	--	--
01...	1220	119	--	505	162	--	--	--
01...	1330	32	--	291	25	--	--	--
01...	1430	14	16.0	195	7.4	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
NOV							
13...	--	--	49	--	--	--	--
13...	--	--	58	--	--	--	--
13...	--	--	49	--	--	--	--
13...	--	--	53	--	--	--	--
13...	--	--	61	74	90	99	100
13...	--	--	59	--	--	--	--
13...	--	--	68	--	--	--	--
13...	48	56	65	74	91	99	100
13...	--	--	64	--	--	--	--
13...	--	--	55	--	--	--	--
DEC							
29...	--	--	56	--	--	--	--
29...	--	--	52	--	--	--	--
29...	--	--	50	--	--	--	--
29...	--	--	50	--	--	--	--
29...	--	--	37	--	--	--	--
29...	--	--	48	--	--	--	--
29...	--	--	49	--	--	--	--
29...	--	--	55	--	--	--	--
29...	--	--	46	--	--	--	--
29...	--	--	39	--	--	--	--
29...	--	--	38	--	--	--	--
29...	--	--	48	--	--	--	--
29...	--	--	54	--	--	--	--
29...	--	--	57	--	--	--	--
30...	--	--	33	--	--	--	--
JAN							
08...	--	--	71	--	--	--	--
MAR							
01...	--	--	24	--	--	--	--
01...	--	--	32	--	--	--	--
01...	--	--	39	--	--	--	--
01...	--	--	40	--	--	--	--
01...	--	--	84	--	--	--	--
01...	--	--	93	--	--	--	--

11162800 REDWOOD CREEK AT REDWOOD CITY, CA

LOCATION.--Lat 37°26'58", long 122°13'57", in Pulgas Grant, San Mateo County, Hydrologic Unit 18050004, 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 mi² (4.71 km²).

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) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Low flow at times affected by return flow from urban irrigation.

AVERAGE DISCHARGE.--23 years, 1.11 ft³/s (0.031 m³/s), 804 acre-ft/yr (991,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 644 ft³/s (18.2 m³/s) Jan. 31, 1963, gage height, 9.36 ft (2.853 m), from rating curve extended above 180 ft³/s (5.10 m³/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.--Peak discharges above base of 130 ft³/s (3.68 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 29	1300	252 7.14	5.71 1.740	Feb. 15	Unknown	171 4.84	4.77 1.454
Jan. 4	1600	*379 10.7	6.95 2.118	Mar. 31	0745	186 5.27	4.96 1.512

Minimum, no flow Oct. 4, Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.05	.57	9.9	1.3	7.3	20	.72	.26	.14	.05	.12
2	.03	.04	.51	10	1.2	4.2	12	.68	.32	.13	.06	.11
3	.05	.05	.48	6.9	1.2	1.9	19	.63	.35	.10	.05	.12
4	0	.05	.46	172	1.1	1.4	6.5	.60	.26	.09	.05	.17
5	.01	.03	.43	29	1.1	1.2	4.7	.60	.23	.09	.05	.15
6	.01	.03	.42	4.6	1.0	1.1	4.0	.60	.24	.08	.09	.17
7	.27	.02	.42	3.3	1.0	1.1	3.9	.58	.23	.07	.07	.16
8	.01	.03	.41	2.5	1.0	1.1	3.2	.61	.24	.06	.04	.17
9	.02	.03	.93	2.0	1.0	1.0	2.8	.57	.24	.12	.05	.18
10	.02	.03	.53	1.8	.99	1.2	17	.51	.24	.16	.05	.22
11	.03	.05	.41	1.6	.98	2.3	25	.50	.26	.17	.04	.19
12	.01	2.1	.87	1.5	1.1	1.1	4.6	.50	.20	.15	.04	.21
13	.02	35	.50	1.3	3.2	1.0	2.8	.50	.19	.07	.07	.21
14	.02	2.3	.42	1.3	10	2.1	3.3	.46	.20	.03	.05	.21
15	.02	1.6	.42	1.2	40	1.1	2.1	.46	.24	.03	.05	.23
16	.02	3.9	.39	1.1	26	5.6	1.7	.39	.19	.02	.04	.26
17	.02	3.9	.37	1.1	4.0	19	1.6	.39	.19	.03	.04	.08
18	.04	.73	.71	1.2	2.5	6.1	1.4	.39	.19	.02	.04	.06
19	.06	.52	9.0	3.6	2.0	2.5	1.3	.39	.24	.02	.05	.06
20	.03	.42	26	17	1.7	1.8	1.2	.32	.17	.02	.05	.05
21	.04	2.1	3.1	6.5	1.6	1.5	1.1	.32	.17	.03	.06	.05
22	.04	.94	1.4	2.3	1.4	1.4	1.1	.32	.19	.01	.07	.05
23	.07	2.5	1.0	1.8	1.3	1.2	1.0	.26	.13	.01	.08	.33
24	.02	1.9	.86	1.6	1.2	1.2	.92	.26	.12	.02	.10	.15
25	.02	.74	.77	1.5	1.2	1.5	.88	.26	.12	.02	.10	1.3
26	.03	1.7	.73	3.1	1.1	2.1	.85	.26	.12	.02	.10	.06
27	.47	5.9	.92	1.6	1.1	1.2	.84	.26	.11	.02	.10	.03
28	6.7	1.6	.66	8.9	1.1	4.3	.83	.24	.11	.03	.16	.02
29	.82	.85	58	2.5	---	29	.78	.24	.14	.02	.14	.01
30	.13	.68	7.4	1.7	---	18	.74	3.4	.15	.04	.13	0
31	.07	---	5.2	1.5	---	72	---	.25	---	.03	.14	---
TOTAL	9.11	69.79	124.29	305.9	112.37	197.5	147.14	16.47	6.04	1.85	2.21	5.13
MEAN	.29	2.33	4.01	9.87	4.01	6.37	4.90	.53	.20	.060	.071	.17
MAX	6.7	35	58	172	40	72	25	3.4	.35	.17	.16	1.3
MIN	0	.02	.37	1.1	.98	1.0	.74	.24	.11	.01	.04	0
AC-FT	18	138	247	607	223	392	292	33	12	3.7	4.4	10

CAL YR 1981 TOTAL 410.36 MEAN 1.12 MAX 58 MIN 0 AC-FT 814
WTR YR 1982 TOTAL 997.80 MEAN 2.73 MAX 172 MIN 0 AC-FT 1980

SAN FRANCISQUITO CREEK BASIN

11164500 SAN FRANCISQUITO CREEK AT STANFORD UNIVERSITY, CA

LOCATION.--Lat 37°25'24", long 122°11'18", in San Francisquito Grant, Santa Clara County, Hydrologic Unit 18050003, 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 mi² (96.9 km²).

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) National Geodetic Vertical Datum of 1929. Recording rain gage at Oak Grove Avenue in Menlo Park 1.9 mi (3.1 km) north of gage.

REMARKS.--Records good. Flow regulated by Searsville Lake 5 mi (8 km) upstream, capacity, 952 acre-ft (1.17 hm³). Diversions of about 800 acre-ft (986,000 m³) 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.--43 years, 18.9 ft³/s (0.535 m³/s), 13,690 acre-ft/yr (16.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,560 ft³/s (157 m³/s) Dec. 22, 1955, gage height, 13.60 ft (4.145 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft³/s (19.8 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 20	0330	904 25.6	4.42 1.347	Feb. 16	0245	3,760 106	9.82 2.993
Dec. 29	1645	2,580 73.1	7.76 2.365	Mar. 31	1000	2,440 69.1	7.49 2.283
Jan. 4	2245	*5,220 148	12.42 3.786	Apr. 11	0345	1,200 34.0	5.10 1.554

Minimum daily, 0.09 ft³/s (0.003 m³/s) Oct. 4.

REVISIONS.--The maximum discharge for the 1980 water year has been revised to 3,300 ft³/s (93.5 m³/s) Jan. 13, 1980, gage height, 9.00 ft (2.743 m), superseding the figures published in the report for 1980.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.24	.36	4.7	164	38	94	570	26	4.8	3.5	2.8	.97
2	.44	.46	4.0	216	30	96	360	23	4.9	3.5	2.4	.87
3	.24	.74	3.5	105	30	67	605	21	4.9	3.3	2.1	.72
4	.09	.78	3.0	2380	28	51	303	20	20	3.1	1.9	.78
5	.19	.83	2.8	1280	25	43	198	18	13	3.0	1.6	.80
6	.22	.38	2.7	244	23	38	159	18	7.1	3.1	1.6	.86
7	.78	.59	2.6	120	22	35	126	18	5.4	2.8	1.5	.84
8	.29	.70	2.6	90	21	32	103	16	4.8	2.3	1.5	.64
9	.40	.87	3.0	71	21	28	86	16	4.0	2.2	1.3	.86
10	.37	.93	4.4	63	19	27	199	11	2.5	2.4	.99	1.1
11	.44	.61	3.5	49	17	39	757	3.1	2.3	2.1	1.1	1.0
12	.53	4.2	3.8	38	16	29	291	2.7	2.3	1.9	1.1	.88
13	.66	93	4.3	31	23	24	172	2.6	2.1	1.9	.89	.95
14	.66	26	3.5	25	105	29	154	2.3	2.0	1.8	.94	.58
15	.87	3.1	3.1	28	1190	24	127	3.9	2.3	1.7	1.3	.85
16	.46	3.3	2.7	29	1530	79	101	6.1	3.3	1.6	.79	1.5
17	.48	31	2.6	26	282	181	85	6.7	3.3	1.6	.77	.93
18	.40	4.5	3.2	24	164	187	74	6.7	3.1	1.6	.79	.83
19	.25	1.7	9.8	35	118	95	66	8.0	2.8	1.6	.89	.79
20	.39	1.2	525	299	95	67	60	6.8	2.9	1.5	1.0	.80
21	.49	3.0	114	269	80	54	45	6.8	3.1	1.5	1.0	.70
22	.63	6.8	41	97	67	46	46	6.5	3.0	1.9	.93	.67
23	.72	2.8	22	61	58	41	45	6.5	2.9	1.9	.91	.92
24	.70	42	15	50	49	38	41	6.1	3.1	1.8	.87	1.7
25	.79	6.6	11	42	44	37	39	5.6	3.1	1.6	1.7	3.4
26	.73	6.2	8.8	72	40	49	36	5.5	3.0	1.8	1.5	1.3
27	.85	30	17	54	38	42	32	5.2	3.6	3.3	.87	1.1
28	12	24	15	149	35	74	30	5.1	3.2	3.0	.91	.84
29	3.7	9.4	754	98	---	327	27	5.0	5.7	3.0	.89	1.1
30	1.1	6.2	337	64	---	251	26	5.1	3.5	2.9	.85	.97
31	.53	---	117	48	---	1460	---	4.9	---	3.0	.83	---
TOTAL	30.64	312.25	2046.6	6321	4208	3684	4963	298.2	132.0	72.2	38.52	30.25
MEAN	.99	10.4	66.0	204	150	119	165	9.62	4.40	2.33	1.24	1.01
MAX	12	93	754	2380	1530	1460	757	26	20	3.5	2.8	3.4
MIN	.09	.36	2.6	24	16	24	26	2.3	2.0	1.5	.77	.58
AC-FT	61	619	4060	12540	8350	7310	9840	591	262	143	76	60
a	1.87	3.94	2.64	6.39	2.40	5.73	1.68	0	.11	.01	.01	.80
CAL YR 1981 TOTAL	4203.60											
WTR YR 1982 TOTAL	22136.66											
MEAN 11.5												
MAX 754												
MIN .02												
AC-FT 8340												
MIN .09												
AC-FT 43910												

a Precipitation, in inches.

11166000 MATADERO CREEK AT PALO ALTO, CA

LOCATION.--Lat 37°25'18", long 122°08'04", in Rincon de San Francisquito Grant, Santa Clara County, Hydrologic Unit 18050003, 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.--7.26 mi² (18.80 km²).

PERIOD OF RECORD.--July 1952 to current year.

REVISED RECORDS.--WDR CA-80-2: 1971-74, 1971-75(P), 1978, 1978-79(P).

GAGE.--Water-stage recorder. Datum of gage is 22.07 ft (6.727 m) National Geodetic Vertical Datum of 1929. 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.--30 years, 2.09 ft³/s (0.059 m³/s) 1,510 acre-ft/yr (1.86 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,200 ft³/s (34.0 m³/s) Feb. 27, 1973, gage height, 5.57 ft (1.698 m), from rating curve extended above 600 ft³/s (17.0 m³/s) on basis of step-backwater computations at gage heights 7.63 ft (2.326 m) and 8.00 ft (2.438 m) and slope-conveyance computations at 5.97 ft (1.789 m) and 6.87 ft (2.094 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.--Peak discharges above base of 200 ft³/s (5.66 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 28	0245	229 6.49	2.00 0.610	Jan. 4	2245	628 17.8	3.66 1.116
Nov. 13	1445	331 9.37	2.34 0.713	Feb. 15	2045	352 9.97	2.42 0.738
Dec. 29	1330	276 7.82	2.14 0.652	Mar. 31	0845	*691 19.6	3.89 1.186

Minimum, no flow Oct. 4, 5, 11, 12, 21.

REVISIONS.--Peak discharges and annual maximum (*) for water years 1973-74 and 1978 have been revised as shown in the following table. These figures supersede those published in the reports for 1973-74, 1978 and 1980.

Water Year	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
1973	Jan. 16	0830	691 19.6	3.89 1.186
	Jan. 18	0900	567 16.1	3.40 1.036
	Feb. 6	1030	600 17.0	3.55 1.082
	Feb. 27	1500	*1,200 34.0	5.57 1.698
1974	Jan. 3	1630	*713 20.2	3.97 1.210
1978	Jan. 14	1800	652 18.5	3.75 1.143
	Jan. 16	1100	*683 19.3	3.86 1.176

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.07	.26	.23	12	2.5	15	52	3.3	.84	.50	.12	.08
2	.26	.11	.24	20	2.1	8.8	19	1.9	.94	.44	.12	.08
3	.18	.03	.20	13	2.0	3.4	31	1.9	.91	.38	.13	.11
4	0	.03	.20	327	1.9	2.5	18	1.8	.74	.31	.16	.11
5	0	.08	.13	77	1.7	2.3	9.5	1.7	.69	.26	.12	.08
6	.06	.20	.19	11	1.6	2.1	7.5	1.7	.65	.27	.14	.08
7	1.1	.04	.23	6.3	1.6	2.1	6.0	1.5	.48	.28	.11	.06
8	.02	.05	.17	4.8	1.6	1.9	5.2	1.3	.46	.26	.11	.09
9	.01	.04	.65	4.0	1.6	2.0	4.7	1.2	.48	.22	.11	.09
10	.02	.05	.41	3.4	1.6	4.4	22	1.2	.48	.20	.11	.07
11	0	.05	.13	2.9	1.5	4.9	49	1.2	.45	.22	.09	.08
12	0	8.3	.88	2.6	1.8	2.0	17	1.3	.44	.14	.11	.09
13	.05	.92	.45	2.4	2.7	1.6	7.6	1.3	.41	.26	.13	.07
14	.02	5.8	.24	2.4	13	3.6	7.1	1.2	.40	.19	.13	.08
15	.02	1.8	.10	2.4	104	1.7	5.2	1.1	.43	.31	.12	.07
16	.04	2.9	.11	1.8	78	15	4.4	1.1	.46	.14	.11	.32
17	.01	4.7	.11	1.7	10	47	3.9	.93	.48	.17	.10	.15
18	.02	.52	.76	2.1	5.9	15	3.8	1.0	.33	.17	.09	.08
19	.06	.30	2.2	12	4.1	5.4	3.5	.95	.35	.14	.08	.09
20	.02	.29	17	47	3.8	3.7	3.2	.79	.55	.19	.11	.07
21	0	8.6	4.9	25	3.0	3.0	3.1	.76	.35	.17	.09	.13
22	.02	1.9	1.4	6.2	2.6	2.5	2.9	.80	.40	.21	.06	.20
23	.02	1.9	.80	3.9	2.3	2.3	2.7	.71	.47	.18	.08	2.3
24	.08	2.5	1.1	3.1	2.1	2.3	2.6	.60	.44	.19	.07	1.5
25	.04	.82	.47	2.7	2.1	3.6	2.5	.66	.33	.19	.16	8.8
26	.01	4.8	.41	5.6	2.1	6.1	2.5	.68	.36	.18	.11	.32
27	3.0	6.0	.64	2.7	2.0	2.3	2.4	.76	.29	.19	.10	.15
28	31	1.7	.39	18	2.1	8.3	2.6	.60	.29	.18	.12	.08
29	2.5	.70	68	4.8	---	45	2.7	.69	14	.11	.16	.07
30	.06	.52	11	3.4	---	31	2.1	.78	.84	.10	.10	.12
31	.03	---	4.3	2.9	---	293	---	.74	---	.13	.09	---
TOTAL	38.72	146.99	118.04	634.1	261.3	543.8	305.7	36.15	28.74	6.88	3.44	15.62
MEAN	1.25	4.90	3.81	20.5	9.33	17.5	10.2	1.17	.96	.22	.11	.52
MAX	31	92	68	327	104	293	52	3.3	14	.50	.16	8.8
MIN	0	.03	.10	1.7	1.5	1.6	2.1	.60	.29	.10	.06	.06
AC-FT	77	292	234	1260	518	1080	606	72	57	14	6.8	31

CAL YR 1981 TOTAL 679.18 MEAN 1.86 MAX 92 MIN 0 AC-FT 1350
WTR YR 1982 TOTAL 2139.48 MEAN 5.86 MAX 327 MIN 0 AC-FT 4240

STEVENS CREEK BASIN

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, Hydrologic Unit 18050003, at center of dam on Stevens Creek, 2.0 mi (3.2 km) southwest of Monte Vista.

DRAINAGE AREA.--17.3 mi² (44.8 km²).

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 National Geodetic Vertical Datum of 1929 (levels by Santa Clara Valley Water District).

REMARKS.--Reservoir is formed by earthfill dam completed in 1936. Capacity, 3,600 acre-ft (4.44 hm³) 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 FOR PERIOD OF RECORD.--Maximum contents observed, 4,100 acre-ft (5.06 hm³) 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 FOR CURRENT YEAR.--Maximum contents observed, 2,360 acre-ft (2.91 hm³) Jan. 5, elevation, 519.8 ft (158.44 m); no minimum observed.

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY
STORAGE ABOVE SPILLWAY CREST), AT 2400, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Contents
Sept. 30, 1981.....	--
Oct. 31.....	--
Nov. 30.....	720
Dec. 31.....	1,150
Jan. 31, 1982.....	1,140
Feb. 28.....	1,050
Mar. 31.....	1,220
Apr. 30.....	1,140
May 31.....	1,180
June 30.....	1,170
July 31.....	1,110
Aug. 31.....	908
Sept. 30.....	693

RESERVOIRS IN GUADALUPE RIVER BASIN, CA

- 11166670 ALMADEN RESERVOIR.--Lat 37°09'54", long 121°49'39", in San Vicente Grant, Santa Clara County, Hydrologic Unit 18050003, 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, 12.0 mi² (31.1 km²), revised. 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 National Geodetic Vertical Datum of 1929 (levels by Santa Clara Valley Water District).
- Reservoir is formed by earthfill dam completed in 1936. Capacity, 1,780 acre-ft (2.19 hm³) 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 ft³/s (2.83 m³/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 hm³) 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, 1,810 acre-ft (2.23 hm³) Feb. 16, elevation, 607.6 ft (185.20 m); no minimum observed.
- 11166740 CALERO RESERVOIR.--Lat 37°11'00", long 121°47'28", in San Vicente Grant, Santa Clara County, Hydrologic Unit 18050003, 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, 6.93 mi² (17.95 km²) revised. 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 National Geodetic Vertical Datum of 1929 (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 hm³) 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 ft³/s (2.83 m³/s) diverted from Almaden Reservoir to Calero Reservoir at times. For WATER-QUALITY RECORDS, see following page. Record of contents furnished by Santa Clara Valley Water District.
- EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 10,520 acre-ft (13.0 hm³) Apr. 7, 1967, elevation, 485.21 ft (147.892 m); no contents at times in each year except 1942-45, 1963-78.
- EXTREMES FOR CURRENT YEAR: Maximum contents observed, 10,140 acre-ft (12.5 hm³) Apr. 3, elevation, 484.0 ft (147.52 m); no minimum observed.
- 11167370 GUADALUPE RESERVOIR.--Lat 37°11'57", long 121°52'42", in Los Capitancillos Grant, Santa Clara County, Hydrologic Unit 18050003, 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, 5.99 mi² (15.51 km²), revised. 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 National Geodetic Vertical Datum of 1929 (levels by Santa Clara Valley Water District).
- Reservoir is formed by earthfill dam completed in 1936. Capacity, 3,740 acre-ft (4.61 hm³) 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 3,790 acre-ft (4.67 hm³) Feb. 19, 1980, elevation, 617.8 ft (188.32 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, 1974-78.
- EXTREMES FOR CURRENT YEAR: Maximum contents observed, 3,780 acre-ft (4.66 hm³) Apr. 13, elevation, 617.9 ft (188.33 m); minimum observed, 305 acre-ft (376,000 m³) Nov. 13, elevation, 544.3 ft (165.90 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, Hydrologic Unit 18050003, at center of Austrian Dam on Los Gatos Creek, and 7.3 mi (11.7 km) southeast of Los Gatos. DRAINAGE AREA, 9.78 mi² (25.33 km²), revised. 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 National Geodetic Vertical Datum of 1929 (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 hm³) 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 m³). 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 hm³) 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, 6,250 acre-ft (7.71 hm³) Mar. 31, elevation, 1,111.7 ft (338.85 m); minimum observed, 445 acre-ft (549,000 m³) Oct. 31, elevation, 1,015.0 ft (309.37 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, Hydrologic Unit 18050003, at center of dam on Los Gatos Creek, and 1.7 mi (2.7 km) south of Los Gatos. DRAINAGE AREA, 36.9 mi² (95.6 km²). 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 National Geodetic Vertical Datum of 1929 (levels by Santa Clara Valley Water District).
- Reservoir is formed by earthfill dam completed in 1952. Capacity, 20,210 acre-ft (24.9 hm³) 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 m³). 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 hm³) Mar. 16, 1967, elevation, 654.00 ft (199.339 m); no contents at times in each year except 1963, 1966-74.
- EXTREMES FOR CURRENT YEAR: Maximum contents observed, 20,760 acre-ft (25.6 hm³) Apr. 1, elevation, 651.4 ft (198.54 m); minimum observed, 941 acre-ft (1.16 hm³) Nov. 12, elevation 553.0 ft (168.55 m).

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY
STORAGE ABOVE SPILLWAY CREST) AT 2400, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Almaden Reservoir	Calero Reservoir	Guadalupe Reservoir	Lake Elzman	Lexington Reservoir
Sept. 30, 1981.....	726	1,310	373	619	1,460
Oct. 31.....	11	1,310	324	445	1,050
Nov. 30.....	457	2,320	884	1,450	3,000
Dec. 31.....	465	3,330	1,460	2,540	4,580
Jan. 31, 1982.....	1,440	8,680	3,580	6,150	15,410
Feb. 28.....	1,570	9,160	3,590	6,140	19,630
Mar. 31.....	1,680	9,810	3,550	6,250	20,030
Apr. 30.....	1,320	9,890	3,680	6,160	19,710
May 31.....	1,650	9,890	3,580	6,130	19,630
June 30.....	1,770	7,460	3,710	5,290	18,730
July 31.....	1,650	4,730	3,700	4,240	17,440
Aug. 31.....	1,520	737	3,560	3,000	16,220
Sept. 30.....	1,280	--	2,930	1,860	13,140

GUADALUPE RIVER BASIN

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1981 to current year.

BIOLOGICAL DATA: Water years 1981 to current year.

AT DAM (Lat 37°10'57", long 121°47'25", T.9 S., R.2 E., Santa Clara County, Hydrologic Unit 18050003)

WATER QUALITY DATA: WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SAMPLING DEPTH (M)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	BAROMETRIC PRESSURE (MM OF HG)	TRANSPAR- ENCY (SECCHI DISK) (M)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	LIGHT INCID- ENT PERCENT REMAIN- ING AT DEPTH	LIGHT ATTENU- ATION COEFFI- CIENT (ALPHA/ METER)
JAN											
19...	1229	--	--	--	--	--	.40	--	--	--	--
19...	1330	.50	251	7.8	8.6	750	--	9.6	84	--	16.54
19...	1331	1.0	252	7.8	8.6	750	--	9.6	84	--	16.80
19...	1332	2.0	252	7.8	8.6	750	--	9.5	83	--	17.07
19...	1333	3.0	252	7.7	8.6	750	--	9.5	83	--	17.07
19...	1334	4.0	252	7.7	8.6	750	--	9.5	83	--	17.07
19...	1335	5.0	252	7.7	8.6	750	--	9.5	83	--	17.07
19...	1336	6.0	252	7.7	8.6	750	--	9.5	83	--	17.07
19...	1337	7.0	252	7.7	8.6	750	--	9.5	83	--	17.07
19...	1338	8.0	252	7.7	8.6	750	--	9.5	83	--	17.07
19...	1339	9.0	252	7.7	8.6	750	--	9.5	83	--	17.07
19...	1340	10.0	252	7.7	8.6	750	--	9.5	83	--	17.07
19...	1341	12.0	252	7.7	8.6	750	--	9.5	83	--	17.07
19...	1342	14.0	252	7.7	8.6	750	--	9.5	83	--	17.07
19...	1343	16.0	252	7.7	8.6	750	--	9.5	83	--	17.07
19...	1344	18.0	252	7.7	8.6	750	--	9.5	83	--	17.07
19...	1345	20.0	252	7.7	8.6	750	--	9.5	83	--	17.07
19...	1346	21.2	252	7.7	8.6	750	--	9.5	83	--	18.42
19...	1400	1.0	252	7.8	8.6	750	--	9.6	84	--	--
19...	1415	10.0	252	7.7	8.6	750	--	9.5	83	--	--
19...	1430	20.0	252	7.7	8.6	750	--	9.5	83	--	--
APR											
20...	1244	.10	--	--	--	--	--	--	--	68	--
20...	1245	.50	275	7.8	16.0	755	--	9.5	97	22	9.63
20...	1246	1.0	273	7.8	15.9	755	--	9.5	97	6.3	9.77
20...	1247	1.5	--	--	--	--	--	--	--	1.6	--
20...	1248	1.6	--	--	--	--	.65	--	--	1.0	--
20...	1249	2.0	271	7.8	15.5	755	--	9.4	95	--	9.86
20...	1250	3.0	272	7.7	14.7	755	--	8.9	89	--	9.77
20...	1251	4.0	272	7.7	14.5	755	--	8.7	86	--	9.86
20...	1252	5.0	272	7.7	14.2	755	--	8.6	85	--	9.54
20...	1253	6.0	273	7.6	13.8	755	--	8.3	81	--	9.21
20...	1254	7.0	272	7.6	13.5	755	--	8.1	79	--	9.02
20...	1255	8.0	271	7.6	13.2	755	--	8.0	77	--	9.21
20...	1256	9.0	270	7.6	12.8	755	--	7.9	75	--	9.42
20...	1257	10.0	269	7.5	12.5	755	--	7.6	72	--	9.86
20...	1258	11.0	268	7.5	12.3	755	--	7.4	70	--	10.10
20...	1259	12.0	268	7.5	12.1	755	--	7.3	69	--	10.10
20...	1300	14.0	267	7.5	12.0	755	--	7.2	67	--	10.36
20...	1301	16.0	268	7.5	11.9	755	--	7.0	65	--	10.36

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT DAM--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TRANS- PAR- ENCY (SECCHI DISK) (M)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	LIGHT INCI- DENT PERCENT REMAIN- ING AT DEPTH	LIGHT, ATTENU- ATION COEFFI- CIENT (ALPHA/ METER)
APR											
20...	1302	18.0	268	7.5	11.7	755	--	6.8	63	--	10.64
20...	1303	20.0	270	7.4	11.3	755	--	6.0	55	--	10.93
20...	1304	22.0	270	7.4	11.1	755	--	5.3	49	--	10.93
20...	1305	1.0	273	7.8	15.9	755	--	9.5	97	--	--
20...	1315	6.0	273	7.6	13.8	755	--	8.3	81	--	--
20...	1325	20.0	270	7.4	11.3	755	--	6.0	55	--	--
JUN											
15...	1204	--	--	--	--	--	1.22	--	--	--	--
15...	1205	.10	--	--	--	--	--	--	--	81	--
15...	1206	.50	303	8.0	22.4	750	--	8.8	103	53	5.79
15...	1207	1.0	307	8.0	22.3	750	--	8.9	104	24	6.24
15...	1208	1.5	--	--	--	--	--	--	--	14	--
15...	1209	2.0	310	8.0	22.0	750	--	9.1	106	6.2	6.24
15...	1210	2.5	--	--	--	--	--	--	--	3.6	--
15...	1211	3.0	311	8.0	21.8	750	--	9.2	107	2.4	6.15
15...	1212	3.5	--	--	--	--	--	--	--	1.4	--
15...	1213	3.7	--	--	--	--	--	--	--	1.0	--
15...	1214	4.0	311	8.0	21.4	750	--	8.9	102	--	5.71
15...	1215	5.0	314	8.0	20.9	750	--	8.4	96	--	4.95
15...	1216	6.0	313	7.7	20.4	750	--	7.5	85	--	4.95
15...	1217	7.0	312	7.5	18.8	750	--	4.2	46	--	5.24
15...	1218	8.0	303	7.3	17.7	750	--	2.6	28	--	7.33
15...	1219	9.0	306	7.1	16.6	750	--	1.5	16	--	9.21
15...	1220	10.0	291	7.0	15.7	750	--	.8	8	--	9.42
15...	1221	11.0	289	6.9	15.1	750	--	.6	6	--	9.81
15...	1222	12.0	290	6.9	14.3	750	--	.8	8	--	11.25
15...	1223	13.0	286	6.9	13.6	750	--	1.2	12	--	13.30
15...	1224	14.0	287	6.8	13.0	750	--	1.7	16	--	13.08
15...	1225	15.0	287	6.9	12.8	750	--	1.7	16	--	11.00
15...	1226	16.0	285	6.8	12.7	750	--	1.6	15	--	10.93
15...	1227	18.0	284	6.8	12.5	750	--	1.1	10	--	12.78
15...	1228	20.0	284	6.8	12.5	750	--	1.0	0	--	13.53
15...	1229	22.0	284	6.8	12.5	750	--	.6	6	--	18.42
15...	1230	1.0	307	8.0	22.3	750	--	8.9	104	--	--
15...	1245	9.0	306	7.1	16.6	750	--	1.5	16	--	--
15...	1300	20.0	284	6.8	12.5	750	--	1.0	0	--	--
AUG											
17...	1214	--	--	--	--	--	1.17	--	--	--	--
17...	1215	.10	--	--	--	--	--	--	--	80	--
17...	1216	.50	317	8.1	23.5	755	--	8.4	100	46	6.34

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	LIGHT INCI- DENT PERCENT REMAIN- ING AT DEPTH	LIGHT, ATTENU- ATION COEFFI- CIENT (ALPHA/ METER)
AUG										
17...	1217	1.0	320	8.1	23.1	755	8.2	97	18	6.75
17...	1218	1.5	--	--	--	--	--	--	8.7	--
17...	1219	2.0	319	8.0	22.9	755	7.2	85	4.4	7.46
17...	1220	2.5	--	--	--	--	--	--	2.8	--
17...	1221	3.0	322	7.9	22.8	755	5.1	60	1.0	9.63
17...	1222	4.0	323	7.7	22.7	755	4.7	55	--	11.06
17...	1223	5.0	323	7.6	22.7	755	3.4	40	--	13.41
17...	1224	6.0	325	7.5	22.6	755	3.3	39	--	14.92
17...	1225	7.0	325	7.5	22.6	755	3.3	39	--	17.07
17...	1226	8.0	325	7.5	22.6	755	3.1	36	--	29.67
17...	1227	9.0	326	7.5	22.5	755	3.0	35	--	31.30
17...	1228	10.0	326	7.4	22.5	755	3.3	39	--	32.45
17...	1229	11.0	326	7.4	22.5	755	4.0	47	--	32.45
17...	1230	12.0	326	7.5	22.4	755	4.2	49	--	32.45
17...	1255	1.0	320	8.1	23.1	755	8.2	97	--	--
17...	1305	5.0	323	7.6	22.7	755	3.4	40	--	--
17...	1320	11.0	326	7.4	22.5	755	4.0	47	--	--

GUADALUPE RIVER BASIN

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT DAM--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SAMPLING DEPTH (M)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	BAROMETRIC PRESSURE (MM HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, (PER-CENT SATURATION)	COLIFORM, FECA, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI, KF AGAR (COLS. PER 100 ML)
JAN											
19...A	1400	1.0	252	7.8	8.6	24	750	9.6	84	--	--
19...A	1415	10.0	252	7.7	8.6	24	750	9.5	83	--	--
19...A	1430	20.0	252	7.7	8.6	24	750	9.5	83	--	--
19...A	1431	--	--	--	--	--	--	--	--	--	--
19...	1500	.10	--	--	--	--	--	--	--	K5	K13
APR											
20...A	1305	1.0	273	7.8	15.9	18	755	9.5	97	--	--
20...A	1315	6.0	273	7.6	13.8	18	755	8.3	81	--	--
20...A	1325	20.0	270	7.4	11.3	18	755	6.0	55	--	--
20...A	1326	--	--	--	--	--	--	--	--	--	--
20...	1605	.10	--	--	--	--	--	--	--	K20	K5
JUN											
15...A	1230	1.0	307	8.0	22.3	2.6	750	8.9	104	--	--
15...A	1235	--	--	--	--	--	--	--	--	--	--
15...A	1245	9.0	306	7.1	16.6	7.5	750	1.5	16	--	--
15...A	1300	20.0	284	6.8	12.5	10	750	1.0	0	--	--
15...	1405	.10	--	--	--	--	--	--	--	<1	K2
AUG											
17...A	1231	--	--	--	--	--	--	--	--	--	--
17...A	1255	1.0	320	8.1	23.1	4.8	755	8.2	97	--	--
17...A	1305	5.0	323	7.6	22.7	8.5	755	3.4	40	--	--
17...	1310	.10	--	--	--	--	--	--	--	<1	<1
17...A	1320	11.0	326	7.4	22.5	23	755	4.0	47	--	--

DATE	HARDNESS (MG/L AS CAC03)	HARDNESS, NONCARBONATE (MG/L AS CAC03)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	SULFATE, DIS-SOLVED (MG/L AS S04)	CHLORIDE, DIS-SOLVED (MG/L AS CL)
JAN										
19...	113	3	24	13	8.0	13	.3	1.6	11	9.0
19...	113	3	24	13	8.2	13	.3	1.5	11	9.0
19...	116	6	25	13	8.0	13	.3	1.5	11	10
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
APR										
20...	118	8	26	13	10	15	.4	1.6	13	11
20...	116	4	25	13	9.0	14	.4	1.4	9.0	10
20...	118	0	24	14	9.0	14	.4	1.5	10	10
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
JUN										
15...	147	15	29	18	9.0	12	.3	1.4	9.0	10
15...	--	--	--	--	--	--	--	--	--	--
15...	136	8	28	16	7.0	10	.3	1.4	9.0	9.0
15...	137	19	27	17	7.0	10	.3	1.5	9.0	10
15...	--	--	--	--	--	--	--	--	--	--
AUG										
17...	--	--	--	--	--	--	--	--	--	--
17...	154	12	32	18	9.0	11	.3	1.8	11	12
17...	152	14	31	18	8.0	10	.3	1.8	12	12
17...	--	--	--	--	--	--	--	--	--	--
17...	150	0	32	17	10	13	.4	1.8	16	12

See footnotes at end of table.

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT DAM--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
JAN										
19...	.1	13	145	148	.20	.58	.54	<.01	<.01	.08
19...	<.1	13	160	148	.22	.64	.53	<.01	<.01	.04
19...	<.1	13	154	150	.21	.56	.52	<.01	<.01	.13
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
APR										
20...	.1	11	167	152	.23	.11	.11	<.01	<.01	.06
20...	.1	12	151	147	.21	.15	.13	<.01	<.01	.09
20...	.1	12	168	147	.23	.41	.41	.02	.01	.04
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
JUN										
15...	.1	2.6	165	159	.22	--	.08	<.01	<.01	.06
15...	--	--	--	--	--	--	--	--	--	--
15...	.1	8.8	163	156	.22	.12	.04	<.01	<.01	.08
15...	.1	13	166	157	.23	.52	.41	<.01	<.01	.12
15...	--	--	--	--	--	--	--	--	--	--
AUG										
17...	--	--	--	--	--	--	--	--	--	--
17...	.2	2.8	175	172	.24	.20	.10	<.01	<.01	.10
17...	.2	3.1	181	170	.25	.20	.20	<.01	<.01	.13
17...	--	--	--	--	--	--	--	--	--	--
17...	.2	3.5	178	177	.24	--	.20	<.01	<.01	--
DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)
JAN										
19...	.04	.46	.45	.54	.49	.06	.05	.02	.03	--
19...	.04	.59	.64	.63	.68	.06	.03	.02	.03	--
19...	.10	.53	.46	.66	.56	.06	.03	.02	.02	--
19...	--	--	--	--	--	--	--	--	--	.59
19...	--	--	--	--	--	--	--	--	--	--
APR										
20...	.04	.62	.60	.68	.64	.03	.02	<.01	<.01	--
20...	.06	.42	.49	.51	.55	.05	.02	<.01	<.01	--
20...	.04	.49	.46	.53	.50	.04	.03	.02	.02	--
20...	--	--	--	--	--	--	--	--	--	.62
20...	--	--	--	--	--	--	--	--	--	--
JUN										
15...	.08	--	.92	--	1.0	.02	.01	<.01	<.01	--
15...	--	--	--	--	--	--	--	--	--	.51
15...	.07	.82	.73	.90	.80	.02	.01	<.01	<.01	--
15...	.10	.68	.80	.80	.90	.03	--	<.01	<.01	--
15...	--	--	--	--	--	--	--	--	--	--
AUG										
17...	--	--	--	--	--	--	--	--	--	.06
17...	.10	1.2	1.2	1.3	1.3	--	.04	<.05	<.05	--
17...	.10	1.1	.90	1.2	1.0	--	.03	<.05	<.05	--
17...	--	--	--	--	--	--	--	--	--	--
17...	.10	--	1.0	1.6	1.1	--	.05	<.05	<.05	--

A Chemical-quality sample analyzed by Santa Clara Valley Water District.

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

< Actual value is known to be less than the value shown.

AT DAM--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

PHYTOPLANKTON

DATE	JAN 19,82	JAN 19,82	JAN 19,82	APR 20,82	APR 20,82	APR 20,82				
TIME	1400	1415	1430	1305	1315	1325				
DEPTH (M)	1.0	10.0	20.0	1.0	6.0	20.0				
TOTAL CELLS/ML	140	100	220	690	780	870				
DIVERSITY: DIVISION	0.0	0.6	0.4	0.4	1.2	1.1				
..CLASS	0.0	0.6	0.4	0.4	1.2	1.1				
..ORDER	0.7	1.4	0.7	0.7	1.2	1.2				
...FAMILY	0.7	1.4	0.7	0.7	1.2	1.2				
....GENUS	1.2	1.4	0.7	1.8	1.8	1.4				
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)										
..BACILLARIOPHYCEAE										
...BACILLARIALES										
....NITZSCHIAEAE										
....HANTZSCHIA	-- --		-- --		-- --		-- --		-- --	
....NITZSCHIA	29# 20		58# 57		14 7		14 2		-- --	
....EUPODISCALES										
....COSCONODISCACEAE										
....COSCONODISCUS	-- --		-- --		-- --		69 10		28 4	
....CYCLOTELLA	-- --		-- --		-- --		28 4		41 5	
....MELOSIRA	100# 70		-- --		190# 87		450# 66		210# 26	
....STEPHANODISCUS	14 10		29# 29		-- --		69 10		28 4	
..FRAGILARIALES										
...FRAGILARIAEAE										
....ASTERIONELLA	-- --		-- --		-- --		-- --		-- --	
....SYNEDRA	-- --		-- --		-- --		14 2		-- --	
..NAVICULALES										
...NAVICULACEAE										
....NAVICULA	-- --		-- --		-- --		-- --		-- --	
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
....CHLOROCOCCACEAE										
....SCHROEDERIA	-- --		-- --		-- --		-- --		-- --	
....COCCOMYXACEAE	-- --		-- --		-- --		-- --		-- --	
....ELAKATOTHRIX	-- --		-- --		-- --		-- --		-- --	
....HYDRODICTYACEAE										
....PEDIASTRUM	-- --		-- --		-- --		-- --		-- --	
....SORASTRUM	-- --		-- --		-- --		-- --		-- --	
....MICRACTINIAEAE	-- --		-- --		-- --		-- --		-- --	
....MICRACTINIUM	-- --		-- --		-- --		-- --		-- --	
....OOCYSTACEAE										
....ANKISTRODESMUS	-- --		-- --		-- --		-- --		-- --	
....FRANCEIA	-- --		-- --		-- --		-- --		-- --	
....KIRCHNERIELLA	-- --		-- --		-- --		-- --		-- --	
....PALMELLACEAE	-- --		-- --		-- --		-- --		-- --	
....SPHAEROCYSTIS	-- --		-- --		-- --		-- --		-- --	
....SCENEDESMACEAE	-- --		-- --		-- --		-- --		-- --	
....CRUCIGENIA	-- --		-- --		-- --		-- --		-- --	
....SCENEDESMUS	-- --		-- --		-- --		-- --		-- --	
....TETRASTRUM	-- --		-- --		-- --		-- --		41 5	
....VOLVOCELES									55 6	
....CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	-- --		-- --		14 7		-- --		-- --	
....POLYBLEPHARIDACEAE	-- --		-- --		-- --		-- --		-- --	
....MESOSTIGMA	-- --		-- --		-- --		-- --		-- --	
....VOLVOCEAE	-- --		-- --		-- --		-- --		-- --	
....PANDORINA	-- --		-- --		-- --		-- --		-- --	
CHRYSTOPHYTA										
..CHRYSTOPHYCEAE										
...OCHROMONADALES										
....OCHROMONADACEAE										
....OCHROMONAS	-- --		-- --		-- --		-- --		-- --	
....SYNURACEAE	-- --		-- --		-- --		-- --		-- --	
....MALLONAS	-- --		-- --		-- --		14 2		-- --	
CRYPTOPHYTA (CRYPTOMONADS)										
..CRYPTOPHYCEAE										
...CRYPTOMONADALES										
....CRYPTOCHRYSIDACEAE										
....CHROOMONAS	-- --		-- --		-- --		-- --		-- --	
....CRYPTOMONADACEAE	-- --		-- --		-- --		-- --		-- --	
....CRYPTOMONAS	-- --		-- --		-- --		-- --		-- --	
CYANOPHYTA (BLUE-GREEN ALGAE)										
..CYANOPHYCEAE										
...CHROOCOCCALES										
....CHROOCOCCACEAE										
....AGMENELLUM	-- --		-- --		-- --		-- --		-- --	
....ANACYSTIS	-- --		-- --		-- --		-- --		-- --	
....OSCILLATORIALES										
....OSCILLATORIAEAE										
....OSCILLATORIA	-- --		-- --		-- --		-- --		440# 56	610# 70

See footnotes at end of table.

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT DAM--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

PHYTOPLANKTON

DATE TIME	JAN 19,82 1400		JAN 19,82 1415		JAN 19,82 1430		APR 20,82 1305		APR 20,82 1315		APR 20,82 1325	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
EUGLENOPHYTA (EUGLENOIDS)												
..EUGLENOPHYCEAE												
...EUGLENALES												
...EUGLENACEAE												
....TRACHELOMONAS	--	-	14	14	--	-	28	4	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)												
..DINOPHYCEAE												
..DINOKONTAE												
...CERATIAEAE												
....CERATIUM	--	-	--	-	--	-	--	-	--	-	--	-
...PERIDINIAEAE												
....PERIDINIUM	--	-	--	-	--	-	--	-	--	-	--	-
DATE	JUN 15,82		JUN 15,82		JUN 15,82		AUG 17,82		AUG 17,82		AUG 17,82	
TIME	1230		1245		1300		1255		1305		1320	
DEPTH (M)	1.0		9.0		20.0		1.0		5.0		11.0	
TOTAL CELLS/ML	510		1200		1900		46000		7000		9200	
DIVERSITY: DIVISION	1.4		0.2		0.1		1.1		1.8		1.6	
..CLASS	1.4		0.2		0.1		1.1		1.8		1.6	
...ORDER	1.8		0.6		0.1		1.2		2.3		2.4	
...FAMILY	1.8		0.6		0.1		1.5		2.7		2.7	
...GENUS	2.4		1.5		0.9		1.7		3.2		3.1	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)												
..BACILLARIOPHYCEAE												
...BACILLARIALES												
...NITZSCHIAEAE												
....HANTZSCHIA	--	-	14	1	--	-	--	-	--	-	--	-
....NITZSCHIA	--	-	43	4	--	-	--	-	100	1	450	5
...EUPODISCALES												
...COSCONODISCACEAE												
....COSCONODISCUS	--	-	--	-	--	-	--	-	280	4	140	2
....CYCLOTELLA	--	-	--	-	--	-	1000	2	310	4	410	5
...MELOSIRA	140#	29	530#	46	1300#	70	* 0		1700#	25	1300	15
...STEPHANODISCUS	140#	29	520#	44	550#	29	* 0		100	1	69	1
..FRAGILARIALES												
...FRAGILARIAEAE												
....ASTERIONELLA	--	-	--	-	--	-	--	-	--	-	*	0
....SYNEDRA	43	9	--	-	--	-	630	1	520	7	410	5
...NAVICULALES												
...NAVICULACEAE												
....NAVICULA	--	-	14	1	--	-	--	-	--	-	*	0
CHLOROPHYTA (GREEN ALGAE)												
..CHLOROPHYCEAE												
...CHLOROCOCCALES												
...CHLOROCOCCACEAE												
....SCHROEDERIA	--	-	--	-	--	-	* 0		--	-	--	-
...COCCOMYXACEAE												
....ELAKATOTHRIX	--	-	--	-	--	-	420	1	--	-	--	-
...HYDRODICTYACEAE												
....PEDIASTRUM	--	-	--	-	--	-	--	-	240	3	--	-
....SORASTRUM	--	-	--	-	--	-	840	2	--	-	--	-
...MICRACTINIACEAE												
....MICRACTINIUM	--	-	--	-	--	-	--	-	170	2	280	3
...OOCYSTACEAE												
....ANKISTRODESMUS	--	-	--	-	--	-	4500	10	960	14	930	10
....FRANCEIA	--	-	--	-	--	-	--	-	69	1	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	* 0		--	-	--	-
...PALMELLACEAE												
....SPHAEROCYSTIS	--	-	--	-	--	-	420	1	--	-	--	-
...SCENEDESMACEAE												
....CRUCIGENIA	--	-	--	-	--	-	--	-	--	-	140	2
....SCENEDESMUS	--	-	--	-	--	-	--	-	140	2	380	4
...TETRASTRUM	58	11	--	-	--	-	--	-	140	2	140	2
...VOLVOCALES												

See footnotes at end of table.

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

PHYTOPLANKTON

DATE TIME	JUN 15,82 1230		JUN 15,82 1245		JUN 15,82 1300		AUG 17,82 1255		AUG 17,82 1305		AUG 17,82 1320	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
...CHLAMYDOMONADACEAE												
...CHLAMYDOMONAS	--	-	--	-	--	-	310	1	--	-	--	-
...POLYHLEPHARIDACEAE												
...MESOSTIGMA	--	-	--	-	--	-	--	-	210	3	*	0
...VOLVOCAEAE												
...PANDORINA	--	-	--	-	--	-	1700	4	--	-	--	-
CHRYSTOPHYTA												
..CHRYSTOPHYCEAE												
...OCHROMONADALES												
...OCHROMONADACEAE												
...OCHROMONAS	--	-	--	-	--	-	--	-	*	0	--	-
...SYNURACEAE												
...MALLOMONAS	--	-	--	-	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)												
..CRYPTOPHYCEAE												
...CRYPTOMONADALES												
...CRYPTOCHRYSIDACEAE												
...CHROOMONAS	29	6	--	-	--	-	--	-	--	-	--	-
...CRYPTOMONADACEAE												
...CRYPTOMONAS	--	-	--	-	--	-	420	1	69	1	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)												
..CYANOPHYCEAE												
...CHROOCOCCALES												
...CHROOCOCCACEAE												
...AGMENELLUM	--	-	--	-	--	-	2100	5	--	-	--	-
...ANACYSTIS	--	-	--	-	--	-	33000#	72	--	-	650	7
...OSCILLATORIALES												
...OSCILLATORIAEAE												
...OSCILLATORIA	--	-	--	-	--	-	--	-	1700#	25	3500#	39
EUGLENOPHYTA (EUGLENOIDS)												
..EUGLENOPHYCEAE												
...EUGLENALES												
...EUGLENACEAE												
...TRACHELOMONAS	87#	17	43	4	14	1	*	0	170	2	69	1
PYRRHOPHYTA (FIRE ALGAE)												
..DINOPHYCEAE												
...DINOKONTAE												
...CERATIAEAE												
...CERATIUM	--	-	--	-	--	-	*	0	*	0	*	0
...PERIDINIAEAE												
...PERIDINIUM	--	-	--	-	--	-	--	-	--	-	69	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT DAM--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SAM- PLING DEPTH (M)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
JAN				
19...	1400	1.0	.680	<.100
19...	1415	10.0	.730	<.100
19...	1430	20.0	.770	<.100
APR				
20...	1305	1.0	3.23	<.100
20...	1315	6.0	1.02	<.100
20...	1325	20.0	.600	<.100
JUN				
15...	1230	1.0	3.00	<.100
15...	1245	9.0	2.60	<.100
15...	1300	20.0	1.60	<.100
AUG				
17...	1255	1.0	16.0	<.100
17...	1305	5.0	5.90	<.100
17...	1320	11.0	7.00	<.100

< Actual value is known to be less than the value shown.

GUADALUPE RIVER BASIN

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT CENTER (Lat 37°10'57", long 121°46'57", T.9 S., R.2 E., Santa Clara County,
Hydrologic Unit 18050003)

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TRANS- PAR- ENCY (SECCHI DISK) (M)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	LIGHT INCI- DENT PERCENT REMAIN- ING AT DEPTH	LIGHT, ATTENU- ATION COEFFI- CIENT (ALPHA/ METER)
JAN											
19...	0937	--	--	--	--	--	.40	--	--	--	--
19...	0938	.10	--	--	--	--	--	--	--	52	--
19...	0939	.20	--	--	--	--	--	--	--	38	--
19...	0940	.50	250	7.8	8.5	750	--	9.4	82	25	16.30
19...	0941	.80	--	--	--	--	--	--	--	12	--
19...	0942	1.0	250	7.8	8.5	750	--	9.4	82	4.8	16.54
19...	0943	1.2	--	--	--	--	--	--	--	2.5	--
19...	0944	1.5	--	--	--	--	--	--	--	1.4	--
19...	0945	1.6	--	--	--	--	--	--	--	1.0	--
19...	0946	2.0	251	7.7	8.5	750	--	9.4	82	--	16.54
19...	0947	3.0	251	7.7	8.5	750	--	9.4	82	--	16.54
19...	0948	4.0	251	7.6	8.5	750	--	9.4	82	--	18.04
19...	0949	5.0	251	7.6	8.5	750	--	9.5	83	--	18.42
19...	0950	6.0	251	7.6	8.5	750	--	9.5	83	--	17.69
19...	0951	7.0	251	7.7	8.5	750	--	9.5	83	--	17.37
19...	0952	8.0	251	7.6	8.5	750	--	9.5	83	--	17.69
19...	0953	9.0	251	7.7	8.5	750	--	9.6	83	--	18.42
19...	0954	10.0	251	7.6	8.5	750	--	9.6	83	--	18.42
19...	0955	11.0	251	7.7	8.5	750	--	9.6	83	--	18.42
19...	0956	12.0	251	7.7	8.6	750	--	9.6	84	--	18.42
19...	0957	13.0	251	7.7	8.5	750	--	9.5	83	--	18.04
19...	0958	14.0	251	7.7	8.5	750	--	9.5	83	--	18.84
19...	0959	15.0	250	7.7	8.5	750	--	9.5	83	--	18.84
19...	1000	16.0	250	7.7	8.5	750	--	9.5	83	--	18.42
19...	1005	1.0	250	7.8	8.5	750	--	9.4	82	--	--
19...	1006	1.0	250	7.8	8.5	750	--	9.4	82	--	--
19...	1015	7.0	251	7.7	8.5	750	--	9.5	83	--	--
19...	1030	14.0	251	7.7	8.5	750	--	9.5	83	--	--
APR											
20...	0954	.10	--	--	--	--	--	--	--	60	--
20...	0955	.50	263	7.8	15.9	755	--	10.0	102	25	10.00
20...	0956	1.0	264	7.8	15.8	755	--	10.0	102	4.4	10.10
20...	0957	1.5	--	--	--	--	.62	--	--	1.0	--
20...	0958	2.0	263	7.8	15.7	755	--	9.9	101	--	10.10
20...	0959	3.0	262	7.8	15.7	755	--	9.8	100	--	10.10
20...	1000	4.0	263	7.7	15.5	755	--	9.7	98	--	9.86
20...	1001	5.0	267	7.7	14.3	755	--	8.7	86	--	9.54
20...	1002	6.0	268	7.6	13.8	755	--	8.3	81	--	9.29
20...	1003	7.0	268	7.6	13.5	755	--	8.2	79	--	9.29
20...	1004	8.0	266	7.5	13.3	755	--	8.1	78	--	9.54
20...	1005	9.0	267	7.5	12.9	755	--	7.8	75	--	9.77
20...	1006	10.0	263	7.5	12.8	755	--	7.6	73	--	10.20
20...	1007	11.0	265	7.4	12.4	755	--	7.2	68	--	10.64
20...	1008	12.0	265	7.4	12.2	755	--	6.9	65	--	10.93
20...	1009	14.0	266	7.4	11.9	755	--	6.8	64	--	10.81
20...	1010	16.0	266	7.4	11.7	755	--	6.5	60	--	11.25
20...	1055	1.0	264	7.8	15.8	755	--	10.0	102	--	--
20...	1056	1.0	264	7.8	15.8	755	--	10.0	102	--	--
20...	1110	5.0	267	7.7	14.3	755	--	8.7	86	--	--
20...	1120	14.0	266	7.4	11.9	755	--	6.8	64	--	--
JUN											
15...	0914	--	--	--	--	--	1.29	--	--	--	--
15...	0915	.10	--	--	--	--	--	--	--	78	--
15...	0916	.50	281	8.0	21.1	750	--	8.5	97	41	5.09
15...	0917	1.0	286	8.0	21.1	750	--	8.5	97	22	5.09
15...	0918	1.5	--	--	--	--	--	--	--	10	--
15...	0919	2.0	289	8.0	21.0	750	--	8.5	97	6.0	5.09
15...	0920	2.5	--	--	--	--	--	--	--	3.5	--
15...	0921	3.0	289	8.0	21.0	750	--	8.4	96	2.2	5.09
15...	0922	3.5	--	--	--	--	--	--	--	1.2	--
15...	0923	3.8	--	--	--	--	--	--	--	1.0	--
15...	0924	4.0	289	8.0	21.0	750	--	8.4	96	--	5.09
15...	0925	5.0	291	8.0	20.7	750	--	7.9	90	--	5.09
15...	0926	6.0	295	7.7	20.0	750	--	6.2	69	--	5.39
15...	0927	7.0	293	7.6	19.0	750	--	4.2	46	--	6.06
15...	0928	8.0	293	7.4	17.9	750	--	2.6	28	--	7.86
15...	0929	9.0	292	7.2	16.8	750	--	1.0	10	--	12.40
15...	0930	10.0	288	7.0	15.1	750	--	.3	3	--	12.40
15...	0931	11.0	281	7.0	14.3	750	--	.4	4	--	12.88
15...	0932	12.0	276	6.9	13.7	750	--	.8	8	--	12.15
15...	0933	13.0	272	6.9	13.4	750	--	1.0	0	--	14.92
15...	0934	14.0	271	6.9	13.0	750	--	1.0	0	--	17.07
15...	0935	15.0	269	6.9	12.9	750	--	1.0	0	--	16.07
15...	0936	16.0	269	6.9	12.7	750	--	1.1	11	--	15.27
15...	0950	1.0	286	8.0	21.1	750	--	8.5	97	--	--
15...	0951	1.0	286	8.0	21.1	750	--	8.5	97	--	--
15...	1000	8.0	293	7.4	17.9	750	--	2.6	28	--	--
15...	1010	15.0	269	6.9	12.9	750	--	1.0	0	--	--
AUG											
17...	0939	--	--	--	--	--	.80	--	--	--	--

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT CENTER--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

		SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	LIGHT INCI- DENT PERCENT REMAIN- ING AT DEPTH	LIGHT, ATTENU- ATION COEFFI- CIENT (ALPHA/ METER)
AUG										
17...	0940	.10	--	--	--	--	--	--	90	--
17...	0941	.50	318	8.1	23.4	755	8.9	106	39	9.63
17...	0942	1.0	318	8.1	23.4	755	8.9	106	12	10.10
17...	0943	1.5	--	--	--	--	--	--	4.5	--
17...	0944	2.0	319	8.1	23.2	755	8.2	97	2.1	8.65
17...	0945	2.5	--	--	--	--	--	--	1.0	--
17...	0946	3.0	321	8.0	22.9	755	5.4	64	--	9.02
17...	0947	4.0	322	7.8	22.8	755	4.9	58	--	10.36
17...	0948	5.0	322	7.7	22.8	755	4.6	54	--	15.27
17...	0949	6.0	323	7.6	22.7	755	3.9	46	--	--
17...	1045	1.0	318	8.1	23.4	755	8.9	106	--	--
17...	1046	1.0	318	8.1	23.4	755	8.9	106	--	--
17...	1055	5.0	322	7.7	22.8	755	4.6	54	--	--

		SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-HF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)
JAN												
19...	1005	1.0	250	7.8	8.5	--	750	9.4	82	--	--	124
19...A	1006	1.0	250	7.8	8.5	24	750	9.4	82	--	--	112
19...A	1015	7.0	251	7.7	8.5	25	750	9.5	83	--	--	112
19...A	1030	14.0	251	7.7	8.5	27	750	9.5	83	--	--	116
19...A	1031	--	--	--	--	--	--	--	--	--	--	--
19...	1520	.10	--	--	--	--	--	--	--	K10	K20	--
APR												
20...	1055	1.0	264	7.8	15.8	--	755	10.0	102	--	--	119
20...A	1056	1.0	264	7.8	15.8	18	755	10.0	102	--	--	116
20...A	1110	5.0	267	7.7	14.3	17	755	8.7	86	--	--	120
20...A	1120	14.0	266	7.4	11.9	18	755	6.8	64	--	--	120
20...A	1333	--	--	--	--	--	--	--	--	--	--	--
20...	1615	.10	--	--	--	--	--	--	--	K5	<5	--
JUN												
15...A	0937	--	--	--	--	--	--	--	--	--	--	--
15...	0950	1.0	286	8.0	21.1	--	750	8.5	97	--	--	137
15...A	0951	1.0	286	8.0	21.1	4.2	750	8.5	97	--	--	140
15...A	1000	8.0	293	7.4	17.9	5.8	750	2.6	28	--	--	137
15...A	1010	15.0	269	6.9	12.9	12	750	1.0	0	--	--	123
15...	1410	.10	--	--	--	--	--	--	--	<1	<1	--
AUG												
17...A	0950	--	--	--	--	--	--	--	--	--	--	--
17...	1045	1.0	318	8.1	23.4	--	755	8.9	106	--	--	153
17...A	1046	1.0	318	8.1	23.4	6.7	755	8.9	106	--	--	150
17...A	1055	5.0	322	7.7	22.8	9.6	755	4.6	54	--	--	152
17...	1300	.10	--	--	--	--	--	--	--	<1	K1	--

See footnotes at end of table.

GUADALUPE RIVER BASIN

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT CENTER--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
JAN												
19...	4	25	15	8.0	12	.3	1.5	6.0	7.0	.2	.13	--
19...	2	25	12	8.0	13	.3	1.5	11	8.0	.1	.13	153
19...	12	25	12	9.0	15	.4	1.5	11	9.0	<.1	.13	163
19...	6	25	13	8.0	13	.3	1.6	12	9.0	<.1	.13	165
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
20...	0	23	15	8.9	14	.4	1.7	8.0	7.2	.1	.12	--
20...	4	25	13	9.0	14	.4	1.5	8.0	11	.1	.12	171
20...	8	25	14	9.0	14	.4	1.5	9.0	10	.1	.11	168
20...	10	25	14	9.0	14	.4	1.4	10	10	.1	.12	169
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	0	27	17	9.3	13	.4	1.3	12	8.1	.2	2.4	--
15...	9	28	17	9.0	12	.3	1.5	8.0	10	.1	2.4	168
15...	7	30	15	9.0	12	.3	1.4	9.0	10	.1	5.7	165
15...	3	26	14	7.0	11	.3	1.4	9.0	10	.1	.13	157
15...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
17...	--	--	--	--	--	--	--	--	--	--	--	--
17...	6	30	19	11	13	.4	1.6	13	8.7	.1	2.9	--
17...	8	32	17	9.0	11	.3	1.8	12	12	.2	2.9	185
17...	0	31	18	9.0	11	.3	1.7	12	11	.2	3.1	177
17...	--	--	--	--	--	--	--	--	--	--	--	--
DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)
JAN												
19...	148	.20	--	--	<.02	--	.51	.51	.14	.14	.48	.38
19...	147	.21	.61	.59	<.01	<.01	--	--	.08	.10	.54	.42
19...	143	.22	.59	.55	<.01	<.01	--	--	.05	.04	.57	.50
19...	150	.22	.62	.53	<.01	<.01	--	--	.18	.10	.38	.45
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
20...	148	.20	--	--	<.02	--	<.10	.10	.14	.09	.54	.38
20...	147	.23	.17	.14	<.01	<.01	--	--	.09	.05	.59	.42
20...	147	.23	.16	.10	<.01	<.01	--	--	.08	.04	.40	.45
20...	149	.23	.27	.27	.01	--	--	--	.06	.06	.59	.51
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	160	.22	--	--	<.10	--	<.10	<.10	.11	.08	--	1.7
15...	155	.23	.16	.07	<.01	<.01	--	--	--	--	--	--
15...	159	.22	--	.13	<.01	<.01	--	--	.10	.10	.70	.40
15...	154	.21	.44	.39	<.01	<.01	--	--	.11	.08	.89	1.0
15...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
17...	--	--	--	--	--	--	--	--	--	--	--	--
17...	175	.24	--	--	<.02	--	<.10	<.10	.12	.12	1.3	.78
17...	173	.25	.10	.10	<.01	<.01	--	--	.10	.10	1.3	.80
17...	172	.24	--	.10	<.01	<.01	--	--	.11	.13	.89	.57
17...	--	--	--	--	--	--	--	--	--	--	--	--

See footnotes at end of table.

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT CENTER--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS- (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTH- TOTAL (MG/L AS P)	PHOS- PHORUS, ORTH- DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
JAN												
19...	.62	.52	1.1	.03	.03	--	.03	--	--	--	--	--
19...	.62	.52	--	.05	.04	--	.04	--	--	--	--	--
19...	.62	.54	--	.07	.04	.02	.03	--	--	--	--	--
19...	.56	.55	--	.06	.03	.03	.03	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
20...	.68	.47	--	.04	.02	--	<.02	--	--	--	--	--
20...	.68	.47	--	.04	.02	<.01	<.01	--	--	--	--	--
20...	.48	.49	--	.05	.02	<.01	<.01	--	--	--	--	--
20...	.65	.57	--	.05	.04	.01	.01	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	1.8	--	.03	.05	--	<.01	--	--	--	--	--
15...	--	1.8	--	.02	.01	<.01	<.01	--	--	--	--	--
15...	.80	.50	--	.02	.01	<.01	<.01	--	--	--	--	--
15...	1.0	1.1	--	.03	.01	<.01	<.01	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
17...	--	--	--	--	--	--	--	--	--	--	--	--
17...	1.4	.90	--	.05	.04	--	.01	--	--	--	--	--
17...	1.4	.90	--	.02	--	<.05	<.05	--	--	--	--	--
17...	1.0	.70	--	--	.04	<.05	<.05	20	1	110	<1	<10
17...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY REC- FM BOT- TOM MA- TERIAL (UG/G AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
JAN												
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	.70	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	.62	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
15...	--	--	--	--	--	--	.30	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
17...	--	--	--	--	--	--	.04	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
17...	<50	9	7	<1	4	<.1	--	<1	5	<1	3.6	8
17...	--	--	--	--	--	--	--	--	--	--	--	--

A Chemical-quality sample analyzed by Santa Clara Valley Water District.

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

< Actual value is known to be less than the value shown.

GUADALUPE RIVER BASIN

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT CENTER--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

PHYTOPLANKTON

DATE	JAN 19.82	JAN 19.82	JAN 19.82	APR 20.82	APR 20.82	APR 20.82				
TIME	1005	1015	1030	1055	1110	1120				
DEPTH (M)	1.0	7.0	14.0	1.0	5.0	14.0				
TOTAL CELLS/ML	43	43	120	870	1200	310				
DIVERSITY: DIVISION	0.9	0.9	1.0	0.9	1.3	0.3				
..CLASS	0.9	0.9	1.0	0.9	1.3	0.3				
..ORDER	0.9	0.9	1.4	0.9	1.6	0.3				
...FAMILY	0.9	0.9	1.4	1.0	1.8	0.3				
....GENUS	0.9	0.9	1.4	1.7	2.5	1.7				
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)										
..BACILLARIOPHYCEAE										
...BACILLARIALES										
....NITZSCHIAEAE										
....NITZSCHIA	14#	33	14#	33	43#	38	--	-	--	-
...EUPODISCALES										
....COSCINODISCACEAE										
....COSCINODISCUS	--	-	--	-	--	-	84	10	28	2
....CYCLOTELLA	--	-	--	-	--	-	590#	68	350#	29
....MELOSIRA	--	-	--	-	--	-	--	-	140	11
....STEPHANODISCUS	--	-	--	-	14	13	56	6	--	-
...FRAGILARIALES										
....FRAGILARIAEAE										
....ASTERIONELLA	--	-	--	-	--	-	--	-	110	9
....DIATOMA	--	-	--	-	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	--	-	--	-	--	-
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
....CHLOROCOCCACEAE										
....SCHROEDERIA	--	-	--	-	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	--	-	--	-	--	-
...COCCOMYXACEAE	--	-	--	-	--	-	--	-	--	-
....ELAKATOTHRIX	--	-	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE	--	-	--	-	--	-	--	-	--	-
....PEDIASTRUM	--	-	--	-	--	-	--	-	--	-
...OOCYSTACEAE	--	-	--	-	--	-	--	-	--	-
....ANKISTRODESMUS	--	-	--	-	--	-	--	-	--	-
...CLOSTERIOPSIS	--	-	--	-	--	-	--	-	--	-
....FRANCEIA	--	-	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	28	3	--	-
...OOCYSTIS	--	-	--	-	--	-	--	-	28	2
....SELENASTRUM	--	-	--	-	--	-	--	-	--	-
....TREUBARIA	--	-	--	-	--	-	--	-	--	-
...PALMELLACEAE	--	-	--	-	--	-	--	-	--	-
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE	--	-	--	-	--	-	--	-	--	-
....ACTINASTRUM	--	-	--	-	--	-	--	-	--	-
....COELASTRUM	--	-	--	-	--	-	--	-	450#	37
....CRUCIGENTIA	--	-	--	-	--	-	--	-	--	-
...SCENEDESMUS	--	-	--	-	58#	50	--	-	56	5
....TETRASTRUM	--	-	--	-	--	-	--	-	--	-
...VOLVOCALES	--	-	--	-	--	-	--	-	--	-
....CHLAMYDOMONADACEAE	--	-	--	-	--	-	--	-	--	-
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-	--	-
....CHLOROGONIUM	--	-	--	-	--	-	--	-	--	-
...POLYBLEPHARIDACEAE	--	-	--	-	--	-	--	-	--	-
....MESOSTIGMA	--	-	--	-	--	-	--	-	--	-
...VOLVOCAEAE	--	-	--	-	--	-	--	-	--	-
....PANDORINA	--	-	--	-	--	-	--	-	--	-
...ZYGNEMATALES	--	-	--	-	--	-	--	-	--	-
....DESMIDIACEAE	--	-	--	-	--	-	--	-	--	-
....STAUSTRUM	--	-	--	-	--	-	--	-	--	-
CHRYSTOPHYTA										
..CHRYSTOPHYCEAE										
...OCHROMONADALES										
....OCHROMONADACEAE	--	-	--	-	--	-	14	2	--	-
....OCHROMONAS	--	-	--	-	--	-	--	-	--	-
...SYNURACEAE	--	-	--	-	--	-	14	2	--	-
....MALLOMONAS	--	-	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
..CRYPTOPHYCEAE										
...CRYPTOMONADALES										
....CRYPTOCHRYSIDACEAE	--	-	--	-	--	-	--	-	28	2
....CHROOMONAS	--	-	--	-	--	-	--	-	--	-
...CRYPTOMONADACEAE	--	-	--	-	--	-	--	-	14	1
....CRYPTOMONAS	--	-	--	-	--	-	--	-	--	-

See footnotes at end of table.

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT CENTER--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

PHYTOPLANKTON

DATE TIME	JAN 19,82 1005		JAN 19,82 1015		JAN 19,82 1030		APR 20,82 1055		APR 20,82 1110		APR 20,82 1120	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)												
..CYANOPHYCEAE												
...CHROOCOCCALES												
...CHROOCOCCACEAE												
....AGMENELLUM	--	-	--	-	--	-	--	-	--	-	--	-
....ANACYSTIS	--	-	--	-	--	-	70	8	--	-	--	-
..OSCILLATORIALES												
...OSCILLATORIA	--	-	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
..EUGLENOPHYCEAE												
...EUGLENALES												
...EUGLENAEAE												
....TRACHELOMONAS	29#	67	29#	67	--	-	14	2	14	1	14	5
PYRRHOPHYTA (FIRE ALGAE)												
..DINOPHYCEAE												
...DINOKONTAE												
...CERATIACEAE												
....CERATIUM	--	-	--	-	--	-	--	-	--	-	--	-
...PERIDINIAEAE												
....PERIDINIUM	--	-	--	-	--	-	--	-	--	-	--	-

DATE TIME	JUN 15,82 0950		JUN 15,82 1000		JUN 15,82 1010		AUG 17,82 1045		AUG 17,82 1055	
DEPTH (M)	1.0		8.0		15.0		1.0		5.0	
TOTAL CELLS/ML	4900		4000		2100		58000		27000	
DIVERSITY: DIVISION	1.5		0.8		0.2		1.3		1.1	
..CLASS	1.5		0.8		0.2		1.3		1.1	
...ORDER	2.4		1.3		0.4		1.9		2.0	
...FAMILY	2.5		1.4		0.4		2.2		2.2	
....GENUS	2.9		2.4		1.6		2.4		2.4	

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)										
..BACILLARIOPHYCEAE										
...BACILLARIALES										
...NITZSCHIAEAE										
....NITZSCHIA	97	2	270	7	28	1	*	0	170	1
...EUPODISCALES										
...COSCONODISCAEAE										
....COSCONODISCUS	41	1	94	2	110	5	*	0	170	1
...CYCLOTELLA	250	5	170	4	130	6	1800	3	790	3
...MELOSIRA	520	11	2300#	58	1400#	67	830	1	340	1
...STEPHANODISCUS	180	4	470	12	350#	17	--	-	--	-
..FRAGILARIALES										
...FRAGILARIAEAE										
....ASTERIONELLA	--	-	--	-	--	-	--	-	--	-
...DIATOMA	55	1	--	-	--	-	--	-	--	-
....SYNEORA	210	4	62	2	--	-	590	1	510	2
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
...CHLOROCOCCACEAE										
....SCHROEDERIA	--	-	*	0	--	-	--	-	170	1
....TETRAEDRON	--	-	*	0	--	-	--	-	*	0
...COCOCOMYXACEAE										
....ELAKATOTHRIX	--	-	--	-	--	-	--	-	*	0
...HYDRODICTYACEAE										
....PEDIASTRUM	--	-	--	-	--	-	710	1	620	2
...OOCYSTACEAE										
....ANKISTRODESMUS	28	1	*	0	--	-	4200	7	2000	7
...CLOSTERIOPSIS	41	1	--	-	--	-	--	-	--	-
...FRANCEIA	--	-	--	-	--	-	--	-	230	1
...KIRCHNERIELLA	--	-	--	-	--	-	--	-	--	-
...OOCYSTIS	83	2	110	3	14	1	470	1	--	-
...SELENASTRUM	--	-	--	-	--	-	*	0	--	-
...TREUBARIA	--	-	*	0	--	-	--	-	--	-
...PALMELLACEAE										
...SPHAEROCYSTIS	--	-	--	-	--	-	*	0	--	-
...SCENEDESMACEAE										
....ACTINASTRUM	--	-	--	-	--	-	470	1	--	-
...COELASTRUM	--	-	120	3	--	-	2400	4	--	-
...CRUCIGENIA	55	1	--	-	--	-	--	-	--	-
...SCENEDESMUS	55	1	--	-	--	-	470	1	560	2
...TETRASTRUM	--	-	120	3	--	-	--	-	230	1

See footnotes at end of table.

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

PHYTOPLANKTON

DATE TIME	JUN 15,82 0950		JUN 15,82 1000		JUN 15,82 1010		AUG 17,82 1045		AUG 17,82 1055	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
..VOLVOCALES										
...CHLAMYDOMONADACEAE							*	0	*	0
....CHLAMYDOMONAS	--	-	--	-	--	-	*	0	*	0
...CHLOROGONIUM										
...POLYBLEPHARIDACEAE										
....MESOSTIGMA	--	-	--	-	--	-	360	1	*	0
...VOLVOCAEAE										
....PANDORINA	--	-	--	-	--	-	1700	3	--	-
...ZYGNEATALES										
...DESMIDIACEAE										
....STAUSTRUM	*	0	*	0	42	2	--	-	*	0
CHRYSOPHYTA										
..CHRYSOPHYCEAE										
...OCHROMONADALES										
...OCHROMONADACEAE										
....OCHROMONAS	140	3	--	-	--	-	710	1	*	0
...SYNURACEAE										
....MALLOMONAS	*	0	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
..CRYPTOPHYCEAE										
...CRYPTOMONADALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	--	-	--	-	--	-	--	-
...CRYPTOMONADACEAE										
....CRYPTOMONAS	--	-	--	-	--	-	470	1	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
..CYANOPHYCEAE										
...CHROOCOCCALES										
...CHROOCOCCACEAE										
....AGHENELLUM	--	-	--	-	--	-	470	1	--	-
...ANACYSTIS	1700#	34	--	-	--	-	33000#	58	12000#	43
...OSCILLATORIALES										
...OSCILLATORIAEAE										
....OSCILLATORIA	1300#	27	120	3	--	-	7100	12	8600#	32
EUGLENOPHYTA (EUGLENOIDS)										
..EUGLENOPHYCEAE										
...EUGLENALES										
...EUGLENACEAE										
....TRACHELOMONAS	140	3	78	2	14	1	470	1	*	0
PYRRHOPHYTA (FIRE ALGAE)										
..DINOPHYCEAE										
...DINOKONTAE										
...CERATIACEAE										
....CERATIUM	--	-	--	-	--	-	--	-	*	0
...PERIDINIACEAE										
....PERIDINIUM	--	-	--	-	--	-	*	0	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT CENTER--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SAM- PLING DEPTH (M)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	PRODUC- TIVITY, PRIMARY GROSS (MG O2/ CU M/D)	PRODUC- TIVITY, PRIMARY NET (MG O2/ CU M/D)	RESPI- RATION (MG O2/ M3/D)
JAN							
19...	1005	1.0	.850	<.100	--	--	--
19...	1015	7.0	.660	<.100	--	--	--
19...	1030	14.0	.620	<.100	--	--	--
APR							
20...	1055	1.0	5.76	1.84	--	--	--
20...	1110	5.0	2.43	<.100	--	--	--
20...	1120	14.0	.740	<.100	--	--	--
20...	1330	1.0	--	--	2600	2600	.0
20...	1331	1.7	--	--	870	.0	870
20...	1332	2.5	--	--	.0	-870	870
JUN							
15...	0950	1.0	2.90	<.100	--	--	--
15...	1000	8.0	2.70	<.100	--	--	--
15...	1010	15.0	2.10	<.100	--	--	--
15...	1330	1.0	--	--	1600	.0	1600
15...	1331	2.0	--	--	1400	-400	1800
15...	1332	3.0	--	--	600	-1200	1800
15...	1333	4.0	--	--	200	-2000	2200
AUG							
17...	1045	1.0	16.0	<.100	--	--	--
17...	1055	5.0	7.50	<.100	--	--	--
17...	1237	.80	--	--	11400	10000	1400
17...	1238	1.5	--	--	8100	6700	1400
17...	1239	2.2	--	--	3800	3300	470
17...	1240	3.0	--	--	1400	2900	-1400

< Actual value is known to be less than the value shown.

GUADALUPE RIVER BASIN

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT EAST END (Lat 37°11'01", long 121°46'17", T.9 S., R.2 E., Santa Clara County,
Hydrologic Unit 18050003)

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TRANS- PAR- ENCY (SECCHI DISK) (M)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION)	LIGHT INCI- DENT PERCENT REMAIN- ING AT DEPTH	LIGHT, ATTENU- ATION COEFFI- CIENT (ALPHA/ METER)
JAN											
19...	1144	--	--	--	--	--	.50	--	--	--	--
19...	1145	.10	--	--	--	--	--	--	--	48	--
19...	1146	.20	--	--	--	--	--	--	--	40	--
19...	1147	.50	255	7.8	8.8	750	--	8.7	76	26	13.77
19...	1148	.80	--	--	--	--	--	--	--	16	--
19...	1149	1.0	257	7.8	8.8	750	--	8.7	76	6.5	13.77
19...	1150	1.2	--	--	--	--	--	--	--	3.3	--
19...	1151	1.5	--	--	--	--	--	--	--	2.1	--
19...	1152	1.8	--	--	--	--	--	--	--	1.0	--
19...	1153	2.0	257	7.7	8.8	750	--	8.7	76	--	13.90
19...	1154	3.0	257	7.7	8.8	750	--	8.7	76	--	14.03
19...	1155	4.0	257	7.7	8.8	750	--	8.7	76	--	14.16
19...	1156	5.0	257	7.6	8.7	750	--	8.7	76	--	14.45
19...	1157	6.0	257	7.6	8.7	750	--	8.7	76	--	14.45
19...	1158	7.0	257	7.5	8.7	750	--	8.7	76	--	14.60
19...	1159	8.0	257	7.6	8.6	750	--	8.7	76	--	16.54
19...	1200	1.0	257	7.8	8.8	750	--	8.7	76	--	--
19...	1215	6.0	257	7.6	8.7	750	--	8.7	76	--	--
APR											
20...	1459	.10	--	--	--	--	--	--	--	60	--
20...	1500	.50	265	8.1	17.3	755	--	11.2	118	17	11.25
20...	1501	1.0	262	8.1	17.3	755	--	11.2	118	3.6	11.60
20...	1502	1.5	--	--	--	--	.57	--	--	1.0	--
20...	1503	2.0	264	8.1	17.1	755	--	11.2	117	--	11.98
20...	1504	3.0	263	8.0	16.6	755	--	10.6	110	--	11.25
20...	1505	4.0	263	7.9	16.3	755	--	10.2	105	--	10.93
20...	1506	5.0	265	7.9	16.2	755	--	10.1	104	--	10.93
20...	1507	6.0	269	7.8	15.5	755	--	9.7	98	--	10.93
20...	1508	7.0	275	7.6	13.8	755	--	7.2	70	--	10.93
20...	1509	8.0	266	7.5	13.1	755	--	7.3	70	--	10.64
20...	1520	1.0	262	8.1	17.3	755	--	11.2	118	--	--
20...	1530	4.0	263	7.9	16.3	755	--	10.2	105	--	--
20...	1540	7.0	275	7.6	13.8	755	--	7.2	70	--	--
JUN											
15...	1509	--	--	--	--	--	.94	--	--	--	--
15...	1510	.10	--	--	--	--	--	--	--	75	--
15...	1511	.50	300	7.8	23.2	750	--	8.7	104	31	9.21
15...	1512	1.0	301	7.8	23.1	750	--	8.7	103	17	7.09
15...	1513	1.5	--	--	--	--	--	--	--	10	--
15...	1514	2.0	307	7.8	22.1	750	--	8.7	101	4.4	5.79
DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION)	LIGHT INCI- DENT PERCENT REMAIN- ING AT DEPTH	LIGHT, ATTENU- ATION COEFFI- CIENT (ALPHA/ METER)	
JUN											
15...	1515	2.5	--	--	--	--	--	--	2.6	--	
15...	1516	3.0	302	7.8	21.2	750	8.4	96	1.5	5.71	
15...	1517	3.5	--	--	--	--	--	--	1.0	--	
15...	1518	4.0	303	7.8	20.9	750	7.9	90	--	5.88	
15...	1519	5.0	301	7.7	20.8	750	7.7	88	--	6.34	
15...	1520	6.0	298	7.7	20.3	750	6.7	75	--	6.86	
15...	1521	7.0	302	7.5	19.6	750	5.0	56	--	18.42	
15...	1530	1.0	301	7.8	23.1	750	8.7	103	--	--	
15...	1545	6.0	298	7.7	20.3	750	6.7	75	--	--	

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT EAST END--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SAMPLING DEPTH (M)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	BAROMETRIC PRESSURE (MM HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, SATURATION (%)	COLIFORM, FECA, UM-FE (COLS./100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)
JAN											
19...A	1200	1.0	257	7.8	8.8	18	750	8.7	76	--	--
19...A	1215	6.0	257	7.6	8.7	18	750	8.7	76	--	--
19...A	1216	--	--	--	--	--	--	--	--	--	--
19...A	1525	.10	--	--	--	--	--	--	--	K5	K25
APR											
20...A	1520	1.0	262	8.1	17.3	18	755	11.2	118	--	--
20...A	1530	4.0	263	7.9	16.3	18	755	10.2	105	--	--
20...A	1540	7.0	275	7.6	13.8	18	755	7.2	70	--	--
20...A	1541	--	--	--	--	--	--	--	--	--	--
20...A	1600	.10	--	--	--	--	--	--	--	K7	<5
JUN											
15...A	1415	.10	--	--	--	--	--	--	--	<1	K4
15...A	1522	--	--	--	--	--	--	--	--	--	--
15...A	1530	1.0	301	7.8	23.1	2.7	750	8.7	103	--	--
15...A	1545	6.0	298	7.7	20.3	4.0	750	6.7	75	--	--

DATE	HARDNESS AS (MG/L CaCO3)	HARDNESS, NONCARBONATE (MG/L CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM DIS-SOLVED (MG/L AS Mg)	SODIUM DIS-SOLVED (MG/L AS Na)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM DIS-SOLVED (MG/L AS K)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE DIS-SOLVED (MG/L AS Cl)
JAN										
19...	118	8	24	14	9.0	14	.4	1.7	11	9.0
19...	109	9	24	12	9.0	15	.4	1.6	12	10
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
APR										
20...	120	6	25	14	9.0	14	.4	1.4	9.0	11
20...	120	2	25	14	10	15	.4	1.4	10	11
20...	120	8	25	14	9.0	14	.4	1.6	10	11
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
JUN										
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	139	8	31	15	9.0	12	.3	1.5	9.0	10
15...	139	7	31	15	10	13	.4	1.5	9.0	10

See footnotes at end of table.

GUADALUPE RIVER BASIN

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT EAST END--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED PER AC-FT)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
JAN										
19...	.1	12	153	150	.21	.61	.61	<.01	<.01	.08
19...	.1	12	170	144	.23	.65	.65	<.01	<.01	.05
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
APR										
20...	.1	11	170	149	.23	.07	<.01	<.01	<.01	.17
20...	.1	11	170	153	.23	.08	<.01	<.01	<.01	.16
20...	.1	12	174	150	.24	.12	.12	<.01	<.01	.09
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
JUN										
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	.1	2.4	172	157	.23	.19	.03	<.01	<.01	.08
15...	.1	3.1	163	159	.22	.08	.08	<.01	<.01	.10
DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)
JAN										
19...	.06	.62	.62	.70	.68	.06	.04	--	.03	--
19...	.04	.68	.50	.73	.54	.06	.03	--	.03	--
19...	--	--	--	--	--	--	--	--	--	.25
19...	--	--	--	--	--	--	--	--	--	--
APR										
20...	.05	.66	.52	.83	.57	.07	.02	<.01	<.01	--
20...	.06	.62	.50	.76	.56	.06	.02	<.01	<.01	--
20...	.05	.91	.52	1.0	.57	.04	.02	<.01	<.01	--
20...	--	--	--	--	--	--	--	--	--	.23
20...	--	--	--	--	--	--	--	--	--	--
JUN										
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	.12
15...	.10	.72	.90	.80	1.0	.03	.01	<.01	<.01	--
15...	.08	.84	.70	.94	.78	.02	.01	<.01	<.01	--

A Chemical-quality sample analysed by Santa Clara Valley Water District.

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

< Actual value is known to be less than the value shown.

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT EAST END--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

PHYTOPLANKTON

DATE	JAN 19.82	JAN 19.82	APR 20.82	APR 20.82				
TIME	1200	1215	1520	1530				
DEPTH (M)	1.0	6.0	1.0	4.0				
TOTAL CELLS/ML	920	400	490	420				
DIVERSITY: DIVISION	0.9	1.5	1.8	0.8				
..CLASS	0.9	1.5	1.8	0.8				
...ORDER	1.6	1.5	2.9	1.1				
...FAMILY	1.6	1.7	2.9	1.1				
....GENUS	1.6	1.7	3.4	2.3				
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)								
..BACILLARIOPHYCEAE								
...BACILLARIALES								
....NITZSCHIA	120	13	120#	29	--	--	--	--
....EUPODISCALES								
...COSCINODISCAEAE								
....COSCINODISCUS	--	--	--	--	43	9	58	14
....CYCLOTELLA	--	--	--	--	14	3	--	--
....MELOSIRA	620#	67	--	--	--	--	140#	34
....STEPHANODISCUS	--	--	--	--	43	9	130#	31
..FRAGILARIALES								
...FRAGILARIAEAE								
....ASTERIONELLA	--	--	--	--	86#	18	--	--
....FRAGILARIA	--	--	--	--	--	--	--	--
....SYNEDRA	14	2	--	--	--	--	--	--
..NAVICULALES								
...CYMBELLACEAE								
....CYMBELLA	--	--	--	--	--	--	29	7
...NAVICULACEAE								
....NAVICULA	--	--	--	--	14	3	--	--
..RHIZOSOLENIALES								
...RHIZOSOLENIAEAE								
....RHIZOSOLENIA	--	--	--	--	--	--	--	--
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...CHLOROCOCCACEAE								
....SCHROEDERIA	--	--	--	--	--	--	--	--
...HYDRODICTYACEAE								
....PEDIASTRUM	--	--	--	--	--	--	--	--
...OOCYSTACEAE								
....ANKISTRODESMUS	14	2	29	7	--	--	--	--
....OOCYSTIS	--	--	--	--	--	--	--	--
....TREUBARIA	--	--	--	--	--	--	--	--
...SCENEDESMACEAE								
....GLOEOACTINIUM	--	--	--	--	58	12	--	--
....SCENEDESMUS	--	--	--	--	58	12	--	--
....TETRASTRUM	58	6	58	14	--	--	--	--
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	--	--	--	43	9	--	--
...ZYGEMATALES								
....DESMIDIACEAE	--	--	--	--	29	6	--	--
....STAUSTRUM	--	--	--	--	--	--	--	--
CHRYSOPHYTA								
..CHRYSOPHYCEAE								
...CHROMULINALES								
...CHRYSOCOCCACEAE								
....CHRYSOCOCCUS	--	--	--	--	--	--	--	--
...OCHROMONADALES								
...OCHROMONADACEAE								
....OCHROMONAS	--	--	--	--	--	--	--	--
...SYNURACEAE								
....MALLONAS	--	--	--	--	43	9	14	3
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	14	2	--	--	--	--	--	--
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	--	--	--	--	--	--	--
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	--	--	--	--	--	--	--
...OSCILLATORIALES								
...OSCILLATORIAEAE								
....OSCILLATORIA	--	--	--	--	--	--	--	--

See footnotes at end of table.

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT EAST END--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

PHYTOPLANKTON

DATE TIME	JAN 19,82 1200		JAN 19,82 1215		APR 20,82 1520		APR 20,82 1530	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENAEAE								
....TRACHELOMONAS	86	9	200#	50	43	9	14	3
PYRRHOPHYTA (FIRE ALGAE)								
..DINOPHYCEAE								
...DINOKONTAE								
...CERATIACEAE								
....CERATIUM	--	-	--	-	--	-	29	7
...PERIDINIAEAE								
....PERIDINIUM	--	-	--	-	14	3	--	-

DATE TIME	APR 20,82 1540	JUN 15,82 1530	JUN 15,82 1545
DEPTH (M)	7.0	1.0	6.0
TOTAL CELLS/ML	520	6000	7500
DIVERSITY: DIVISION	0.2	1.5	1.2
..CLASS	0.2	1.5	1.2
...ORDER	0.9	2.4	1.8
...FAMILY	0.9	2.4	1.8
....GENUS	2.2	3.1	2.2

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)						
..BACILLARIOPHYCEAE						
...BACILLARIALES						
...NITZSCHIAEAE						
....NITZSCHIA	--	-	270	5	770	10
...EUPODISCALES						
...COSCINODISCAEAE						
....COSCINODISCUS	100#	19	--	-	150	2
....CYCLOTILLA	29	6	620	10	190	3
....MELOSIRA	220#	42	1800#	30	740	10
....STEPHANODISCUS	58	11	170	3	340	5
..FRAGILARIALES						
...FRAGILARIAEAE						
....ASTERIONELLA	100#	19	--	-	--	-
....FRAGILARIA	--	-	620	10	--	-
....SYNEDRA	--	-	350	6	52	1
...NAVICULALES						
...CYMBELLACEAE						
....CYMBELLA	--	-	*	0	--	-
...NAVICULACEAE						
....NAVICULA	--	-	--	-	--	-
...RHIZOSOLENIALES						
...RHIZOSOLENIAEAE						
....RHIZOSOLENIA	--	-	*	0	--	-

CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
...CHLOROCOCCACEAE						
....SCHROEDERIA	--	-	*	0	--	-
...HYDRODICTYACEAE						
....PEDIASTRUM	--	-	--	-	120	2
...OOCYSTACEAE						
....ANKISTRODESMUS	--	-	50	1	*	0
....OOCYSTIS	--	-	--	-	52	1
....TREUBARIA	--	-	--	-	*	0
...SCENEDESMACEAE						
....GLOEOACTINIUM	--	-	--	-	--	-
....SCENEDESMUS	--	-	75	1	--	-
....TETRASTRUM	--	-	100	2	--	-
...VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	14	3	*	0	--	-
...ZYGEMATALES						
...DESMIDIACEAE						
....STAUSTRUM	--	-	--	-	--	-

See footnotes at end of table.

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT EAST END--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

PHYTOPLANKTON

DATE TIME	APR 20.82 1540	JUN 15.82 1530	JUN 15.82 1545
ORGANISM	CELLS /ML PER- CENT	CELLS /ML PER- CENT	CELLS /ML PER- CENT
CHRYSTOPHYTA			
..CHRYSTOPHYCEAE			
...CHROMULINALES			
...CHRYSOCCOCCACEAE			
....CHRYSOCCOCCUS	--	--	* 0
...OCHROMONADALES			
...OCHROMONADACEAE			
....OCHROMONAS	--	500 8	* 0
...SYNURACEAE			
....MALLONONAS	--	--	--
CRYPTOPHYTA (CRYPTOMONADS)			
..CRYPTOPHYCEAE			
...CRYPTOMONADALES			
...CRYPTOCHRYSIDACEAE			
....CHROMONAS	--	* 0	--
...CRYPTOMONADACEAE			
....CRYPTOMONAS	--	--	* 0
CYANOPHYTA (BLUE-GREEN ALGAE)			
..CYANOPHYCEAE			
...CHROOCOCCALES			
...CHROOCOCCACEAE			
....ANACYSTIS	--	* 0	4500# 60
...OSCILLATORIALES			
...OSCILLATORIA	--	1200# 20	340 5
EUGLENOPHYTA (EUGLENOIDS)			
..EUGLENOPHYCEAE			
...EUGLENALES			
...EUGLENACEAE			
....TRACHELOMONAS	--	75 1	52 1
PYRRHOPHYTA (FIRE ALGAE)			
..DINOPHYCEAE			
...DINOKONTAE			
...CERATIACEAE			
....CERATIUM	--	--	--
...PERIDINIACEAE			
....PERIDINIUM	--	--	--

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

DATE	TIME	SAM- PLING DEPTH (M)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
JAN				
19...	1200	1.0	3.09	<.100
19...	1215	6.0	2.61	<.100
APR				
20...	1520	1.0	18.8	<.100
20...	1530	4.0	16.2	<.100
20...	1540	7.0	2.35	<.100
JUN				
15...	1530	1.0	3.20	<.100
15...	1545	6.0	2.90	<.100

< Actual value is known to be less than the value shown.

GUADALUPE RIVER BASIN

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

ALMADEN-CALERO CANAL (Lat 37°10'49", long 121°47'25", T.9 S., R.2 E., Santa Clara County
Hydrologic Unit 18050003)

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
JAN 19...	A 1510	59	267	8.2	9.0	45	750	14.0	123	K39	260
APR 20...	A 1340	.20	367	9.0	27.0	7.5	755	14.6	185	100	K100
JUN 15...	A 1400	<.01	349	9.1	34.0	1.3	750	10.8	156	K15	K245

DATE	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
JAN 19...	126	6	29	13	8.0	12	.3	1.1	10	8.0	<.1
APR 20...	211	9	22	38	7.0	7	.2	.6	10	11	<.1
JUN 15...	175	5	24	28	18	18	.6	.2	11	15	.1

DATE	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
JAN 19...	16	170	158	27.1	.23	.16	.18	<.01	<.01	.12
APR 20...	46	260	256	.14	.35	.09	.02	<.01	<.01	.12
JUN 15...	24	209	223	--	.28	.21	.10	<.01	<.01	.07

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHOPHOS- PHATE TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHOPHOS- PHATE DIS- SOLVED (MG/L AS P)	MERCURY REC OV. FM BOT- TOM MA- TERIAL (UG/G AS HG)
JAN 19...	.11	.49	.27	.61	.38	.07	.02	<.01	.01	--
APR 20...	.12	.70	.51	.82	.63	.03	.02	<.01	<.01	.49
JUN 15...	.06	--	.84	--	.90	.02	.01	<.01	<.01	.22

A Chemical-quality sample analyzed by Santa Clara Valley Water District.

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

< Actual value is known to be less than the value shown.

11169000 GUADALUPE RIVER AT SAN JOSE, CA

LOCATION.--Lat 37°20'04", long 121°53'54", Santa Clara County, Hydrologic Unit 18050003, on right bank at San Jose, 100 ft (30 km) downstream from Los Gatos Creek.

DRAINAGE AREA.--146 mi² (378 km²).

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) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by Lexington Reservoir 12 mi (19 km) upstream and Calero, Almaden, Guadalupe Reservoirs, and Lake Elsmar given elsewhere in this report, with water released during summer for percolation in spreading basins on tributaries. During current year, 14,510 acre-ft (17.9 km³) was diverted by San Jose Water Works for urban use and zero acre-ft 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 ft³/s (259 m³/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, 7,340 ft³/s (208 m³/s) Mar. 31, gage height, 12.66 ft (3.859 m); no flow Oct. 17-23, Nov. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.24	.53	1.4	58	13	250	2410	46	4.2	8.5	3.3	1.6
2	.31	.25	2.2	150	9.7	515	1190	25	3.8	6.5	3.1	1.9
3	.50	.23	4.2	47	2.0	459	1720	17	4.5	4.7	3.2	1.7
4	.42	.17	.86	2370	.80	421	1370	14	4.0	3.7	3.3	1.9
5	.54	1.4	.24	1750	.73	444	920	12	3.5	1.2	3.1	1.5
6	.45	.21	.15	346	.65	403	811	6.6	3.8	.77	3.3	2.9
7	3.0	.09	.07	131	2.0	238	626	3.5	3.9	.64	3.4	1.9
8	.78	.09	.05	58	2.1	96	470	3.7	12	3.6	3.5	2.2
9	.52	.01	.09	37	.69	63	798	3.1	8.3	4.2	3.1	3.9
10	1.4	0	.15	27	.94	62	1420	3.1	4.5	4.4	3.3	2.7
11	.70	.09	.08	22	4.9	62	3200	3.1	6.5	3.8	6.5	1.1
12	.81	83	.22	23	6.2	61	2270	3.2	5.9	3.7	6.8	.81
13	.46	1140	.14	15	23	44	1630	3.1	4.8	3.9	4.9	.96
14	.28	254	.09	10	77	41	1100	3.1	5.6	4.0	4.1	2.0
15	.17	23	.07	7.8	290	41	993	2.9	6.1	3.5	2.9	1.9
16	.05	24	.10	7.5	592	41	858	3.2	6.4	3.5	2.5	4.4
17	0	264	.16	6.2	339	42	465	3.0	6.4	3.2	2.8	3.3
18	0	20	7.0	7.3	293	42	434	3.6	6.2	3.3	2.8	3.2
19	0	6.8	5.3	77	295	112	328	4.0	6.4	3.0	2.7	4.1
20	0	4.8	34	426	253	149	305	4.8	5.8	3.3	2.3	3.8
21	0	18	9.8	208	214	138	286	4.4	5.7	3.3	3.6	3.7
22	0	27	3.1	50	200	127	256	4.4	6.0	3.0	5.6	3.9
23	0	4.1	1.2	39	183	106	197	3.7	8.8	3.0	6.2	21
24	.17	4.3	.60	27	141	88	177	3.3	5.6	3.2	4.9	74
25	.30	1.5	.45	23	107	115	159	2.7	5.8	3.2	2.9	138
26	.17	40	1.7	23	80	181	166	2.9	6.5	3.2	2.4	26
27	.33	37	14	13	57	124	234	3.2	9.2	3.3	1.9	9.3
28	179	5.1	4.3	127	74	165	252	4.0	8.2	3.3	1.6	4.3
29	57	2.6	38	29	---	427	239	4.3	46	3.4	1.6	3.4
30	7.0	1.7	30	15	---	535	126	4.2	21	3.3	1.4	3.1
31	1.9	---	23	14	---	4230	---	4.0	---	3.4	1.0	---
TOTAL	256.50	1963.97	182.72	6143.8	3261.71	9822	25410	209.1	235.4	109.01	104.0	334.47
MEAN	8.27	65.5	5.89	198	116	317	847	6.75	7.85	3.52	3.35	11.1
MAX	179	1140	38	2370	592	4230	3200	46	46	8.5	6.8	138
MIN	0	0	.05	6.2	.65	41	126	2.7	3.5	.64	1.0	.81
AC-FT	509	3900	362	12190	6470	19480	50400	415	467	216	206	663
CAL YR 1981 TOTAL	5429.44			MEAN 14.9	MAX 1140	MIN 0	AC-FT 10770					
WTR YR 1982 TOTAL	48032.68			MEAN 132	MAX 4230	MIN 0	AC-FT 95270					

GUADALUPE RIVER BASIN

11169500 SARATOGA CREEK AT SARATOGA, CA

LOCATION.--Lat 37°15'16", long 122°02'18", in Quito Grant, Santa Clara County, Hydrologic Unit 18050003, 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 mi² (23.88 km²).

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 fair. Water is diverted for municipal use by San Jose Water Works at diversion dam above station.

AVERAGE DISCHARGE (adjusted for diversion).--49 years, 10.2 ft³/s (0.289 m³/s), 7,390 acre-ft/yr (9.11 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,730 ft³/s (77.3 m³/s) Dec. 22, 1955, gage height, 6.40 ft (1.951 m) site and datum then in use, from rating curve extended above 510 ft³/s (14.4 m³/s) on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 110 ft³/s (3.12 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 13	1645	545 15.4	4.84 1.475	Feb. 16	0200	549 15.5	4.85 1.478
Dec. 20	0345	249 7.05	4.01 1.222	Mar. 31	0845	1,180 33.4	6.20 1.990
Dec. 29	1445	197 5.58	3.86 1.177	Apr. 3	0515	533 15.1	4.81 1.466
Jan. 4	2245	*1,720 48.7	7.06 2.152	Apr. 10	2215	899 25.5	5.65 1.722
Jan. 20	1145	137 3.88	3.81 1.161				

Minimum daily, 0.32 ft³/s (0.009 m³/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.34	.81	5.0	51	15	22	268	19	4.1	1.6	.65	.75
2	.33	.77	4.3	62	14	30	232	17	3.9	1.5	.70	.98
3	.36	.77	3.9	51	11	24	350	15	4.0	2.2	.87	.71
4	.36	.75	3.5	712	9.6	21	242	14	4.0	2.6	.88	1.3
5	.35	.75	3.1	491	7.4	18	192	15	4.3	2.4	.70	1.1
6	.34	.77	3.0	126	8.1	16	114	15	4.1	1.1	.55	1.2
7	.46	.76	3.0	65	8.7	11	99	14	4.0	.81	.46	.95
8	.41	.75	2.5	45	7.4	13	93	13	4.4	.84	.54	1.1
9	.40	.77	2.8	33	7.4	13	84	14	3.8	.64	.48	1.2
10	.43	.77	2.5	28	6.6	14	369	12	4.0	.71	.85	.91
11	.46	.76	1.0	23	6.0	22	488	11	3.8	.72	1.2	.48
12	.44	1.4	1.1	17	5.8	19	280	10	4.1	.62	1.0	.33
13	.44	140	.89	15	8.9	15	183	9.4	4.0	.49	1.7	.41
14	.42	33	.72	14	16	16	150	9.1	3.8	.44	1.2	.45
15	.39	16	.89	14	134	15	120	8.8	3.3	.41	1.4	.93
16	.35	20	.75	14	252	25	89	7.8	3.7	.36	2.8	.56
17	.33	51	.56	13	65	40	72	7.5	4.1	.39	3.5	.54
18	.35	12	.66	12	43	46	68	7.3	3.2	.50	4.7	.48
19	.38	6.4	7.2	18	33	39	56	7.0	2.5	.43	5.3	.49
20	.40	4.5	121	53	26	33	49	6.5	2.3	.41	4.8	.41
21	.40	5.6	48	39	22	30	45	5.8	2.7	.43	3.4	.38
22	.40	5.9	28	26	19	25	40	6.3	1.9	1.7	1.3	.82
23	.39	9.1	20	22	14	21	37	5.9	2.0	.75	1.5	.55
24	.36	20	14	21	11	19	37	5.4	2.5	.76	1.9	.94
25	.39	10	12	18	9.1	18	34	5.1	3.6	.78	1.7	2.1
26	.42	9.4	9.8	21	7.6	20	32	5.1	1.3	.67	1.7	1.4
27	.94	13	10	17	7.5	16	29	5.3	1.2	.67	.49	.43
28	19	9.4	8.6	28	6.9	24	27	4.8	1.3	1.6	.99	.38
29	2.3	7.2	79	20	---	65	25	4.5	4.0	1.1	.44	.40
30	1.0	6.2	60	19	---	112	22	4.4	3.1	.48	.44	.32
31	.86	---	41	17	---	539	---	4.1	---	.56	.47	---
TOTAL	34.20	388.53	498.77	2105	782.0	1341	3926	289.1	99.0	28.67	48.61	23.00
MEAN	1.10	13.0	16.1	67.9	27.9	43.3	131	9.33	3.30	.92	1.57	.77
MAX	19	140	121	712	252	539	488	19	4.4	2.6	5.3	2.1
MIN	.33	.75	.56	12	5.8	11	22	4.1	1.2	.36	.44	.32
AC-FT	68	771	989	4180	1550	2660	7790	573	196	57	96	46
a	0	0	36	13	103	74	74	195	167	162	97	50

CAL YR 1981 TOTAL 1747.22 MEAN 4.79 MAX 140 MIN .18 AC-FT 3470 a 526
WTR YR 1982 TOTAL 9563.88 MEAN 26.2 MAX 712 MIN .32 AC-FT 18970 a 971

a Diversion, in acre-feet, furnished by San Jose Water Works.

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, Hydrologic Unit 18050003, 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 mi² (282 km²).

PERIOD OF RECORD.--October 1960 to September 1982 (discontinued).

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 fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--22 years, 48.7 ft³/s (1.379 m³/s), 35,280 acre-ft/yr (43.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,100 ft³/s (286 m³/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 ft³/s (90.6 m³/s) on basis of slope-area measurement of maximum flow; no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 13	2315	1,400 39.6	7.15 2.179	Mar. 31	Unknown	6,810 193	12.90 3.932
Jan. 4	2015	*6,840 194	12.93 3.941	Apr. 3	Unknown	Unknown	Unknown
Feb. 16	Unknown	Unknown	Unknown	Apr. 11	Unknown	Unknown	Unknown

Minimum, no flow many days during October and November.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	14	233	59	54	1600	51	12	5.9	.52	.33
2		0	12	383	52	350	1100	47	12	5.6	.50	.43
3		0	9.9	203	46	250	2000	43	11	5.1	.48	.48
4		0	8.4	3500	42	145	1300	41	11	4.6	.51	.48
5		0	7.4	1450	37	103	900	38	12	4.2	.48	.42
6		0	6.4	357	33	74	705	35	12	3.8	.43	.41
7		0	5.7	183	31	68	580	34	11	3.4	.42	.37
8		0	5.2	116	30	62	500	32	11	3.4	.46	.58
9		0	5.1	85	27	56	460	31	11	3.1	.44	1.5
10		0	6.1	64	25	70	1000	29	11	2.9	.46	1.5
11		0	5.6	53	24	225	3400	28	11	2.6	.61	1.1
12		0	5.3	43	22	120	1800	27	11	2.4	.57	.06
13		211	5.8	36	24	97	1100	25	10	2.2	.57	.06
14		354	5.8	32	29	125	700	23	9.8	2.0	.48	.05
15		45	5.3	29	800	150	500	22	9.2	1.8	.42	.04
16		35	5.1	27	1900	350	400	20	8.8	1.7	.41	.04
17		157	4.7	24	880	600	270	19	8.0	1.7	.37	.04
18		60	4.8	22	500	750	210	18	6.6	1.6	.34	.04
19		25	9.3	28	290	640	170	17	6.6	1.4	.33	.04
20		14	270	527	180	470	145	16	6.6	1.3	.32	.05
21		10	195	497	150	360	125	16	6.3	1.2	.30	.05
22		14	85	230	120	260	110	15	6.0	1.1	.25	.05
23		12	54	151	90	195	100	13	5.8	.94	.24	.07
24		52	39	156	80	160	90	13	5.8	.83	.25	.11
25		39	32	155	60	140	81	13	5.6	.79	.24	.12
26		32	28	152	50	130	78	12	5.4	.80	.24	.12
27		72	30	123	46	125	70	12	5.4	.76	.28	.12
28		50	32	117	36	160	65	12	5.4	.67	.29	.12
29		29	188	106	---	300	59	12	6.2	.58	.24	.12
30		19	282	81	---	600	55	12	6.2	.57	.24	.12
31		---	152	69	---	4400	---	12	---	.54	.26	---
TOTAL	0	1230	1518.9	9232	5663	11589	19673	738	259.7	69.48	11.95	9.02
MEAN	0	41.0	49.0	298	202	374	656	23.8	8.66	2.24	.39	.30
MAX	0	354	282	3500	1900	4400	3400	51	12	5.9	.61	1.5
MIN	0	0	4.7	22	22	54	55	12	5.4	.54	.24	.04
AC-FT	0	2440	3010	18310	11230	22990	39020	1460	515	138	24	18

CAL YR 1981 TOTAL 10031.53 MEAN 27.5 MAX 1540 MIN 0 AC-FT 19900
WTR YR 1982 TOTAL 49994.05 MEAN 137 MAX 4400 MIN 0 AC-FT 99160

NOTE.--No gage-height record Feb. 9 to Mar. 1, Mar. 6 to May 4, June 12 to July 1.

COYOTE CREEK BASIN

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, Hydrologic Unit 18050003, at center of dam on Coyote Creek, 3.8 mi (6.1 km) northeast of San Martin. DRAINAGE AREA, 120 mi² (311 km²). 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 National Geodetic Vertical Datum of 1929 (levels by Santa Clara Valley Water District).

Reservoir is formed by rockfill and earthfill dam completed in 1936. Capacity, 23,700 acre-ft (29.2 hm³) 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 hm³) Dec. 8, 1950, elevation, 782.5 ft (238.51 m); no contents at times.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 26,680 acre-ft (32.9 hm³) Feb. 16, elevation, 782.0 ft (238.35 m); minimum observed, 8,190 acre-ft (10.1 hm³) Dec. 30, elevation 747.1 ft (227.72 m).

11169920 ANDERSON LAKE.--Lat 37°09'56", long 121°37'42", in southeast corner of La Laguna Seca Grant, Santa Clara County, Hydrologic Unit 18050003, at center of dam on Coyote Creek, 2.5 mi (4.0 km) northeast of Madrone. DRAINAGE AREA, 195 mi² (505 km²). 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 National Geodetic Vertical Datum of 1929 (levels by Santa Clara Valley Water District).

Reservoir is formed by earthfill and rockfill dam completed in 1950. Capacity, 91,280 acre-ft (113 hm³) 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 hm³) 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, 94,890 acre-ft (117 hm³) Apr. 1, elevation, 628.1 ft (191.45 m); minimum observed, 54,830 acre-ft (67.6 hm³) Oct. 22-23, elevation, 590.3 ft (179.93 m).

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY
STORAGE ABOVE SPILLWAY CREST), AT 2400, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Coyote Lake	Anderson Lake
Sept. 30, 1981.....	15,170	55,230
Oct. 31.....	11,190	55,150
Nov. 30.....	9,890	58,480
Dec. 31.....	8,520	61,230
Jan. 31, 1982.....	23,680	69,100
Feb. 28.....	23,680	85,970
Mar. 31.....	23,680	91,650
Apr. 30.....	23,680	90,840
May 31.....	23,680	90,840
June 30.....	23,600	86,780
July 31.....	23,200	81,910
Aug. 31.....	22,550	76,560
Sept. 30.....	22,060	72,180

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, Hydrologic Unit 18050003, 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 mi² (508 km²).

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 and Anderson Lakes (stations 11169880 and 11169920); water released during summer. Water is diverted to Main Avenue percolation ponds by Santa Clara Valley Water District.

AVERAGE DISCHARGE (unadjusted).--76 years, 63.2 ft³/s (1.790 m³/s), 45,790 acre-ft/yr (56.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft³/s (708 m³/s) probably Mar. 7, 1911 (record furnished by Duryea, Haehl, and Gilman); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,630 ft³/s (103 m³/s) Apr. 1, gage height, 8.80 ft (2.682 m); minimum daily, 5.0 ft³/s (0.142 m³/s) Nov. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	28	9.3	10	11	122	3180	85	42	70	74	70
2	64	25	9.9	10	19	140	1980	85	42	67	75	70
3	61	23	9.0	10	24	241	1400	68	41	66	75	71
4	60	23	9.6	15	26	271	1360	56	43	66	75	71
5	59	22	10	13	26	270	1030	55	44	66	75	69
6	59	19	10	9.8	26	247	795	57	44	66	74	68
7	59	12	10	9.6	26	143	616	41	44	66	74	64
8	60	13	12	9.6	21	91	517	32	49	66	74	62
9	61	12	13	9.6	16	48	447	33	55	66	75	62
10	60	9.6	13	9.6	17	21	469	16	61	66	72	66
11	60	10	13	9.2	15	14	1370	9.6	61	66	73	69
12	59	11	13	8.4	12	14	1980	9.5	61	66	76	69
13	58	13	13	8.4	12	14	1250	9.4	61	64	78	62
14	57	5.0	13	8.4	12	14	861	9.4	60	61	78	58
15	53	5.7	14	8.4	8.0	14	656	9.4	60	61	78	58
16	51	7.8	14	8.4	7.5	15	535	9.5	59	64	78	58
17	53	8.3	14	8.4	7.2	115	459	14	59	66	78	58
18	53	8.3	13	8.4	7.2	266	424	19	60	66	77	58
19	51	8.1	14	8.3	46	237	383	25	59	66	77	58
20	47	7.5	15	8.7	85	64	348	32	60	66	76	53
21	46	7.4	13	7.9	85	150	309	33	62	66	76	50
22	46	7.7	11	9.0	109	270	205	33	66	65	76	50
23	42	7.8	11	9.0	133	261	135	33	67	64	76	49
24	38	7.4	11	9.0	126	266	136	32	70	64	75	43
25	38	8.9	11	9.0	82	270	136	35	70	64	73	48
26	38	10	11	9.2	51	271	136	40	70	65	72	47
27	35	10	11	9.1	50	271	136	44	69	66	73	47
28	34	10	11	9.6	83	272	121	44	68	67	72	45
29	32	10	11	9.0	---	298	93	42	68	70	72	44
30	30	9.5	10	9.0	---	341	84	42	69	74	74	43
31	28	---	10	9.0	---	1550	---	42	---	74	73	---
TOTAL	1558	360.0	362.8	290.0	1142.9	6581	21551	1094.8	1744	2050	2324	1740
MEAN	50.3	12.0	11.7	9.35	40.8	212	718	35.3	58.1	66.1	75.0	58.0
MAX	66	28	15	15	133	1550	3180	85	70	74	78	71
MIN	28	5.0	9.0	7.9	7.2	14	84	9.4	41	61	72	43
AC-FT	3090	714	720	575	2270	13050	42750	2170	3460	4070	4610	3450
a	0	0	404	263	305	401	148	401	413	434	432	413

CAL YR 1981 TOTAL 13671.8 MEAN 37.5 MAX 68 MIN 5.0 AC-FT 27120 a 3380
WTR YR 1982 TOTAL 40798.5 MEAN 112 MAX 3180 MIN 5.0 AC-FT 80920 a 3610

a Diversion, in acre-feet, furnished by Santa Clara Valley Water District.

COYOTE CREEK BASIN

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, Hydrologic Unit 18050003, 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 mi² (55.7 km²).

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) National Geodetic Vertical Datum of 1929. Prior to Aug. 3, 1962, at site 0.4 mi (0.6 km) downstream at different datum.

REMARKS.--Records good except those for period of no gage height record, which are fair. Flow partly regulated by Cherry Flat Reservoir 5 mi (8 km) upstream, capacity, 500 acre-ft (616,000 m³).

AVERAGE DISCHARGE.--21 years, 5.32 ft³/s (0.151 m³/s), 3,850 acre-ft/yr (4.75 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,970 ft³/s (55.8 m³/s) Mar. 31, 1982, gage height, 8.71 ft (2.655 m) in gage well, 9.71 ft (2.96 m) from outside gage, from rating curve extended above 360 ft³/s (10.2 m³/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 ft³/s (59.5 m³/s) Apr. 2, 1958, from information furnished by Santa Clara Valley Water District.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 90 ft³/s (2.55 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 29	2100	123 3.48	4.07 1.241	Mar. 31	1745	*1,970 55.8	8.71 2.655
Jan. 5	0515	469 13.3	5.06 1.542	Apr. 4	1245	192 5.44	4.23 1.289
Feb. 16	Unknown	597 16.9	5.08 1.548	Apr. 10	2400	235 6.66	4.38 1.335

Minimum daily, 0.23 ft³/s (0.007 m³/s) Sept. 21, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.34	.59	1.2	20	9.2	5.6	310	8.0	2.4	2.0	1.2	.75
2	.39	.59	1.0	49	7.5	21	235	7.4	2.4	2.0	1.2	.79
3	.50	.59	.93	27	5.1	16	160	6.8	2.3	1.9	1.2	.76
4	.43	.67	.88	138	4.8	12	171	6.0	2.2	1.7	1.2	.74
5	.40	.67	.70	286	4.3	10	132	5.9	2.2	1.6	1.2	.76
6	.42	.67	.56	84	3.7	8.5	114	5.6	2.8	1.5	1.2	.75
7	.64	.67	.50	47	3.3	7.3	80	5.5	4.1	1.5	1.1	.73
8	.47	.67	.46	31	3.1	6.6	60	5.3	4.2	1.5	1.1	.70
9	.46	.67	.46	21	2.9	5.9	48	5.1	4.2	1.4	1.1	.71
10	.56	.67	.42	15	2.7	6.8	53	4.8	4.4	1.2	1.1	.76
11	.51	.67	.41	12	2.6	24	154	4.5	4.3	1.2	1.0	.69
12	.57	1.1	.41	9.2	2.3	13	112	4.4	4.3	1.2	1.0	.64
13	.56	2.2	.41	7.1	2.2	10	85	4.2	1.7	1.2	.99	.68
14	.50	4.4	.41	5.7	6.0	14	70	4.1	1.8	1.2	1.0	.79
15	.47	1.1	.40	5.2	100	14	55	3.7	1.9	1.2	1.0	.84
16	.46	.93	.39	4.5	191	38	44	3.5	1.9	1.1	.98	1.0
17	.45	1.8	.44	4.1	95	69	36	3.3	1.9	1.2	.99	.65
18	.46	1.9	.40	3.9	49	70	31	3.2	1.9	1.2	.97	.37
19	.47	1.5	.72	4.4	31	72	26	2.9	2.1	1.2	1.0	.30
20	.48	1.1	1.8	26	22	53	22	2.7	2.1	1.2	1.0	.26
21	.49	.93	9.4	46	16	37	19	2.7	2.1	1.2	.86	.23
22	.47	1.3	11	31	12	28	17	2.6	2.1	1.1	.78	.23
23	.45	1.0	4.9	23	9.2	22	15	2.5	2.2	1.3	.76	.31
24	.50	1.9	3.2	23	7.2	18	14	2.3	2.2	1.3	.78	.59
25	.52	2.1	2.3	20	6.1	15	13	2.0	2.2	1.3	.79	.95
26	.54	2.7	1.9	19	5.3	15	12	2.0	2.1	1.4	.81	.85
27	.54	4.2	8.6	15	4.8	13	11	2.1	2.0	1.4	.83	.54
28	2.1	2.6	5.9	24	4.5	17	9.8	2.5	2.1	1.4	.83	.43
29	1.5	1.9	21	17	---	38	9.1	2.5	2.8	1.3	.78	.37
30	.67	1.4	50	13	---	90	8.6	2.5	2.0	1.3	.79	.34
31	.59	---	17	11	---	473	---	2.4	---	1.3	.77	---
TOTAL	17.91	43.19	148.10	1042.1	612.8	1242.7	2126.5	123.0	76.9	42.5	30.31	18.51
MEAN	.58	1.44	4.78	33.6	21.9	40.1	70.9	3.97	2.56	1.37	.98	.62
MAX	2.1	4.4	50	286	191	473	310	8.0	4.4	2.0	1.2	1.0
MIN	.34	.59	.39	3.9	2.2	5.6	8.6	2.0	1.7	1.1	.76	.23
AC-FT	36	86	294	2070	1220	2460	4220	244	153	84	60	37
CAL YR 1981	TOTAL	1108.09	MEAN	3.04	MAX	145	MIN	.01	AC-FT	2200		
WTR YR 1982	TOTAL	5524.52	MEAN	15.1	MAX	473	MIN	.23	AC-FT	10960		

NOTE.--No gage-height record Feb. 3-16.

11174600 ALAMO CANAL NEAR PLEASANTON, CA

LOCATION.--Lat 37°41'10", long 121°54'54", in Santa Rita Grant, Alameda County, Hydrologic Unit 18050004, on right bank 30 ft (9 m) upstream from Valley Community Services District (VCSD) wasteway, 0.7 mi (1.1 km) upstream from Arroyo Mocho, 3 mi (5 km) northwest of Pleasanton.

DRAINAGE AREA.--40.8 mi² (105.7 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 320 ft (98 m) from topographic map. Prior to Aug. 29, 1979, nonrecording gage at same site and datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,340 ft³/s (123 m³/s) Jan. 13, 1980, gage height, 13.40 ft (4.084 m), from rating curve extended above 76 ft³/s (2.15 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.27 ft³/s (0.008 m³/s) Oct. 14, 1979.

NOTE.--Record for current year not available at time of publication.

ALAMEDA CREEK BASIN

11174600 ALAMO CANAL 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 1979 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1979 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1979.

COOPERATION.--Chemical-quality samples were collected by Valley Community Services District. Specific conductance field data furnished by Alameda County Flood Control and Water Conservation District, Zone 7.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,980 micromhos Oct. 17, 1979; minimum recorded, 172 micromhos Feb. 19, 1980.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCTI- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
OCT												
22...	1400	1.1	1500	8.1	20.0	449	189	99	49	140	40	3.0
28...	1415	16	570	7.6	16.5	170	83	40	17	50	39	1.7
JAN												
07...	1300	36	940	7.9	9.0	293	83	71	28	73	35	1.9
FEB												
02...	1400	8.6	1320	8.0	17.0	431	101	100	44	110	36	2.4
APR												
12...	1400	75	760	8.4	16.0	260	30	63	25	63	34	1.8
AUG												
12...	1200	4.0	1350	7.7	23.0	410	160	95	42	120	39	2.7

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
OCT											
22...	1.5	180	220	.5	15	862	905	.40	590	25	520
28...	2.9	77	82	.3	8.1	330	333	1.6	140	51	140
JAN											
07...	2.4	120	63	.3	22	506	539	2.1	230	16	51
FEB											
02...	1.8	200	120	.4	22	797	814	1.7	430	<10	97
APR											
12...	2.7	98	58	.4	21	469	473	1.0	270	18	16
AUG											
12...	1.6	150	200	.5	20	780	869	.96	570	6	83

DAILY SPECIFIC CONDUCTANCE DATA NOT AVAILABLE AT TIME OF PUBLICATION.

11176000 ARROYO MOCHO NEAR LIVERMORE, CA

LOCATION.--Lat 37°37'35", long 122°42'13", in NW¼Sec. 36, T.3 S., R.2 E., Alameda County, Hydrologic Unit 18050004, on right bank 40 ft (12 m) downstream from Mines Road bridge, 2.4 mi (3.9 km) upstream from small right-bank tributary, and 5.2 mi (8.4 km) southeast of Livermore.

DRAINAGE AREA.--38.2 mi² (98.9 km²).

WATER-DISCHARGE RECORDS

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) National Geodetic Vertical Datum of 1929. January 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 fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--37 years, 4.42 ft³/s (0.125 m³/s), 3,200 acre-ft/yr (3.95 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 1,680 ft³/s (47.6 m³/s) Mar. 5, 1978, gage height, 7.66 ft (2.335 m), from rating curve extended above 270 ft³/s (7.65 m³/s); maximum daily discharge, 1,000 ft³/s (28.3 m³/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 ft³/s (53.2 m³/s), by slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 90 ft³/s (2.55 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 5	Unknown	*1,140 32.3	7.55 2.301	Apr. 1	0515	253 7.17	5.79 1.765
Feb. 16	Unknown	213 6.03	5.64 1.719	Apr. 11	0700	331 9.37	6.03 1.838

Minimum, no flow many days during October and November.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.98	15	2.9	4.3	174	6.6	2.6	2.3	.42	.26
2		0	.84	21	2.5	16	116	6.4	3.0	1.9	.41	.23
3		0	.75	19	2.1	16	87	6.1	2.7	1.7	.41	.20
4		0	.71	200	1.6	9.5	87	6.2	2.6	1.6	.41	.20
5		0	.71	610	1.4	7.5	50	5.7	2.7	1.4	.41	.20
6		0	.60	40	1.3	6.1	40	4.9	2.7	1.3	.41	.20
7		0	.60	15	1.3	5.1	32	4.0	2.6	1.3	.41	.18
8		0	.60	10	1.2	4.9	26	3.9	2.5	1.2	.41	.14
9		0	.60	7.0	1.2	4.3	23	3.6	2.4	1.2	.41	.16
10		0	.52	5.3	1.1	10	25	3.6	2.2	1.1	.41	.16
11		0	.51	4.4	1.0	17	224	3.9	2.0	1.1	.41	.16
12		0	.55	3.7	.97	19	91	3.5	1.9	1.0	.41	.16
13		0	.51	3.1	1.0	12	43	3.3	1.7	1.0	.41	.14
14		4.3	.51	2.7	2.0	12	30	2.8	1.9	1.0	.41	.13
15		1.6	.55	2.5	.49	11	24	2.7	1.8	.96	.41	.13
16		.69	.60	2.2	1.18	13	20	2.5	1.7	.94	.41	.14
17		1.4	.51	1.9	.43	21	17	2.1	2.0	.93	.41	.16
18		2.1	.58	1.9	.25	32	16	2.1	2.1	.92	.41	.16
19		1.3	.62	2.3	.17	26	15	2.1	2.2	.90	.41	.32
20		.94	2.2	9.8	.12	19	15	1.8	2.3	.90	.41	.33
21		.87	6.8	13	9.4	15	13	1.6	2.2	.88	.41	.33
22		.93	3.6	6.9	7.4	12	12	1.5	2.2	.74	.38	.33
23		1.1	2.3	4.4	5.5	9.8	11	1.4	2.0	.68	.30	.33
24		1.3	1.6	6.4	4.5	8.7	11	1.4	2.0	.64	.26	.43
25		1.6	1.3	8.1	4.1	7.5	10	1.2	1.9	.62	.26	1.2
26		1.7	1.1	7.6	3.7	8.5	9.7	1.2	1.9	.64	.24	1.4
27		2.0	.94	6.0	3.5	8.4	8.8	1.5	1.8	.62	.23	.95
28		2.0	15	6.6	3.3	13	8.1	1.5	1.7	.60	.26	.68
29		1.5	35	6.4	---	31	7.5	1.7	2.7	.56	.26	.59
30		1.2	68	4.2	---	59	6.8	2.0	3.2	.54	.26	.53
31		---	25	3.3	---	124	---	2.2	---	.47	.26	---
TOTAL	0	26.53	174.69	1049.7	326.97	562.6	1252.9	95.0	67.2	31.64	11.33	10.53
MEAN	0	.88	5.64	33.9	11.7	18.1	41.8	3.06	2.24	1.02	.37	.35
MAX	0	4.3	68	610	118	124	224	6.6	3.2	2.3	.42	1.4
MIN	0	0	.51	1.9	.97	4.3	6.8	1.2	1.7	.47	.23	.13
AC-FT	0	53	346	2080	649	1120	2490	188	133	63	22	21
CAL YR 1981	TOTAL	508.06	MEAN	1.39	MAX	68	MIN	0	AC-FT	1010		
WTR YR 1982	TOTAL	3609.09	MEAN	9.89	MAX	610	MIN	0	AC-FT	7160		

ALAMEDA CREEK BASIN

11176000 ARROYO MOCHO NEAR LIVERMORE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year.

CHEMICAL ANALYSES: December 1979 to current year.

SPECIFIC CONDUCTANCE: Water years 1979 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1979 to current year.

INSTRUMENTATION.--Water-quality monitor since January 1979.

COOPERATION.--Chemical-quality samples and specific conductance field data were collected by Alameda County Flood Control and Water Conservation District, Zone 7.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,750 micromhos Oct. 15, Nov. 18, 19, 1980; minimum recorded, 183 micromhos Feb. 21, 1980.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
DEC 09...	0800	.50	1190	8.0	12.0	532	72	48	100	63	20	1.2
JAN 06...	1400	130	360	7.9	6.0	155	15	21	25	15	17	.5
FEB 02...	0900	1.5	650	8.3	7.0	304	24	31	55	31	18	.8
MAR 22...	1000	10	550	8.4	10.0	266	26	29	47	24	16	.6
APR 02...	1400	210	330	8.3	11.0	147	7	21	23	14	17	.5
12...	0900	70	300	8.1	10.0	132	2	20	20	12	16	.5
AUG 12...	0900	.40	1030	7.8	19.5	482	58	48	88	47	17	.9
26...	--	.20	1120	8.0	24.2	495	39	48	91	53	19	1.1

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
DEC 09...	3.2	120	68	.2	9.6	689	704	<.10	1100	<10	13
JAN 06...	2.7	5.0	13	.1	11	177	210	1.7	220	20	6
FEB 02...	2.8	38	45	.2	9.4	381	366	.69	520	<10	6
MAR 22...	2.2	45	23	.1	9.3	324	308	<.10	350	<3	4
APR 02...	2.5	7.0	10	.6	13	175	190	.48	140	42	6
12...	2.3	7.0	8.4	.1	14	162	174	.26	120	28	12
AUG 12...	3.6	48	50	.2	15	555	592	<.10	770	3	20
26...	4.3	51	62	.2	17	601	573	<.10	850	4	20

< Actual value is known to be less than the value shown.

DAILY SPECIFIC CONDUCTANCE DATA NOT AVAILABLE AT TIME OF PUBLICATION.

11176145 ARROYO LAS POSITAS AT LIVERMORE, CA

LOCATION.--Lat 37°42'00", long 121°46'22", in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on left bank 5 ft (1.5 m) upstream from North Livermore Avenue bridge, 0.6 mi (1.0 km) upstream from Cayetano Creek, and 1.3 mi (2.1 km) north of Livermore.

DRAINAGE AREA.--53.3 mi² (138.0 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1980 to current year.

GAGE.--Water-stage recorder with concrete control. Altitude of gage is 465 ft (142 m) from topographic map.

REMARKS.--Records good. Water from South Bay Aqueduct enters stream about 5 mi (8 km) upstream from gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,900 ft³/s (53.8 m³/s) Jan. 5, 1982, gage height, 5.87 ft (1.789 m); minimum daily discharge, 0.17 ft³/s (0.005 m³/s) Aug. 30, Sept. 1-8, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s (8.50 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 5	0230	*1,900 53.8	5.87 1.789	Mar. 11	2015	457 12.9	3.94 1.201
Feb. 15	2345	350 9.91	3.72 1.134	Mar. 31	1515	1,190 33.7	5.04 1.536

Minimum daily, 0.50 ft³/s (0.014 m³/s) Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	1.0	1.2	4.0	1.8	7.3	73	4.1	3.1	2.4	.66	.66
2	2.4	1.0	1.2	18	1.8	15	37	4.3	3.1	3.9	.65	.50
3	2.7	1.0	1.2	4.4	1.8	9.4	19	4.3	3.7	3.9	.66	.78
4	2.5	.93	1.2	175	1.8	3.4	32	4.0	3.5	3.9	.66	1.1
5	2.1	.93	1.2	574	1.4	2.2	15	3.8	3.5	4.1	.66	.88
6	2.4	1.0	1.2	25	1.3	1.9	8.0	3.7	3.4	3.6	.66	.76
7	2.7	1.0	1.2	7.5	4.4	1.8	4.7	6.2	3.3	3.6	.66	.87
8	2.6	1.0	1.2	4.9	6.5	1.9	4.6	6.6	3.4	2.4	.66	.83
9	2.5	1.0	1.2	3.8	6.6	6.7	4.2	6.6	3.2	1.1	.66	.76
10	2.7	1.0	1.2	3.2	5.3	16	8.2	6.3	3.2	.96	.66	.76
11	2.7	1.0	1.2	2.8	5.0	92	40	6.4	3.0	.88	.66	1.1
12	2.7	8.3	1.4	2.5	6.7	63	17	6.6	3.3	.88	.66	.97
13	2.7	47	1.6	2.3	7.7	9.3	7.4	6.3	3.2	.98	.66	.74
14	2.7	23	1.3	2.2	11	4.7	5.8	6.3	3.3	.96	.66	.66
15	2.4	2.0	1.3	2.1	108	4.0	6.0	6.6	3.2	1.3	.66	.66
16	2.4	1.5	1.2	2.0	169	6.2	3.9	6.8	3.1	1.1	.66	1.1
17	2.4	6.1	1.2	1.9	20	5.0	3.6	6.5	3.3	.88	.75	1.4
18	2.5	1.6	1.3	1.9	6.9	8.1	3.5	5.9	3.3	.88	.76	1.8
19	2.3	1.4	3.1	4.4	4.2	2.8	3.1	6.1	3.4	.88	.76	1.5
20	2.5	1.3	15	17	3.2	1.9	2.9	4.4	3.4	.88	.76	1.1
21	2.3	1.6	13	20	2.8	2.2	2.7	4.4	3.4	1.4	1.7	1.4
22	2.7	3.4	3.1	5.7	2.6	1.7	2.5	4.6	3.5	1.8	1.1	1.0
23	2.5	1.5	1.8	3.0	2.0	1.8	6.7	4.7	3.6	1.3	.84	1.2
24	1.7	3.4	1.6	2.5	1.6	2.1	5.5	1.8	3.3	2.1	.76	2.8
25	.96	1.8	1.5	2.3	1.9	2.1	4.8	1.2	3.4	1.1	.76	6.4
26	.82	3.3	1.4	2.5	1.9	12	4.8	1.1	3.5	.88	.76	3.7
27	.81	3.1	1.4	2.4	1.9	4.1	4.2	1.0	3.5	.84	.76	1.3
28	17	2.7	1.4	5.2	1.9	8.5	4.3	1.7	3.5	.76	.76	1.7
29	13	1.6	37	2.7	---	45	4.6	1.4	4.1	.76	.76	1.0
30	1.7	1.3	22	2.1	---	64	4.3	2.5	2.0	.76	.76	1.6
31	1.1	---	4.2	1.9	---	468	---	3.2	---	.72	.75	---
TOTAL	94.79	126.76	129.0	909.2	391.0	874.1	343.3	139.4	99.7	51.90	23.29	41.03
MEAN	3.06	4.23	4.16	29.3	14.0	28.2	11.4	4.50	3.32	1.67	.75	1.37
MAX	17	47	37	574	169	468	73	6.8	4.1	4.1	1.7	6.4
MIN	.81	.93	1.2	1.9	1.3	1.7	2.5	1.0	2.0	.72	.65	.50
AC-FT	188	251	256	1800	776	1730	681	276	198	103	46	81
CAL YR 1981 TOTAL	1375.35		MEAN 3.77	MAX 53	MIN .66	AC-FT 2730						
WTR YR 1982 TOTAL	3223.47		MEAN 8.83	MAX 574	MIN .50	AC-FT 6390						

ALAMEDA CREEK BASIN

11176145 ARROYO LAS POSITAS AT LIVERMORE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1980 to current year.

CHEMICAL ANALYSES: August 1980 to current year.

SPECIFIC CONDUCTANCE: August 1980 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1980 to current year.

INSTRUMENTATION.--Water-quality monitor since August 1980.

COOPERATION.--Chemical-quality samples and specific conductance field data were furnished by Alameda County Flood Control and Water Conservation District, Zone 7.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 7,070 micromhos Oct. 21, 1980; minimum recorded, 466 micromhos Dec. 21, 1980.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
OCT												
22...	1000	2.7	2300	8.2	12.0	210	50	38	28	110	53	3.4
28...	1330	16	1060	7.0	17.0	150	52	27	20	150	68	5.5
DEC												
09...	1000	1.1	2380	8.3	10.0	527	187	89	74	290	54	5.6
JAN												
06...	1700	14	1230	7.7	8.0	210	70	43	25	160	62	4.9
FEB												
02...	1100	1.7	--	8.3	9.0	637	267	110	88	520	64	9.2
APR												
12...	1000	15	1490	8.4	16.0	235	35	43	31	210	65	6.1

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
OCT											
22...	2.4	41	170	.2	7.9	495	533	1.3	1300	60	10
28...	4.1	58	240	.2	6.3	567	561	.82	2400	24	20
DEC											
09...	2.3	110	500	.5	15	1290	1400	6.1	5400	20	50
JAN											
06...	4.7	68	220	.3	18	626	660	3.5	3400	74	66
FEB											
02...	3.7	290	760	.6	16	2020	2190	6.2	10000	<10	150
APR											
12...	4.9	33	300	.4	18	765	860	1.4	4800	62	42

DAILY SPECIFIC CONDUCTANCE DATA NOT AVAILABLE AT TIME OF PUBLICATION

11176180 ARROYO LAS POSITAS AT EL CHARRO ROAD, NEAR PLEASANTON, CA

LOCATION.--Lat 37°41'49", long 121°50'54", in Santa Rita Grant, Alameda County, Hydrologic Unit 18050004, on left bank at Santa Rita Rehabilitation Center Annex, 400 ft (122 m) downstream from El Charro Road bridge, and 2.8 mi (4.5 km) northeast of Pleasanton.

DRAINAGE AREA.--75.0 mi² (194.2 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1977 to current year. Records prior to October 1977 in files of Alameda County Flood Control and Water Conservation District.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 350 ft (107 m), from topographic map.

REMARKS.--Records good. Low flow affected by release flows from South Bay Aqueduct for ground-water recharge and water-quality improvement. Summer flow affected by diversions into basin above station from Arroyo Mocho Creek for irrigation.

COOPERATION.--Gage-height record and 13 discharge measurements were furnished by Alameda County Flood Control and Water Conservation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,380 ft³/s (39.1 m³/s) Mar. 31, 1982, gage height, 8.07 ft (2.460 m), from rating curve extended above 1,370 ft³/s (38.8 m³/s); no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s (11.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 5	0315	1,230 34.8	7.64 2.329	Mar. 11	2315	409 11.6	4.82 1.469
Feb. 16	Unknown	891 25.2	6.44 1.963	Mar. 31	1400	*1,380 39.1	8.07 2.460

Minimum, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	.23	.49	4.0	1.0	11	170	3.7	1.3	0		0
2	1.5	.07	.42	27	.87	42	74	3.8	1.3	2.3		0
3	1.5	0	.37	5.9	.82	11	35	3.6	1.6	2.5		0
4	1.2	0	.36	386	.73	5.6	60	3.1	1.5	2.8		0
5	.98	0	.34	606	.61	3.7	24	2.7	1.6	2.8		0
6	1.1	.01	.35	40	.46	2.9	5.8	2.6	1.7	2.2		0
7	1.6	.04	.31	9.5	3.4	2.4	4.6	4.0	1.5	2.1		0
8	1.3	.01	.26	5.7	4.5	2.6	3.9	4.8	1.6	1.9		0
9	1.1	0	.31	4.2	4.5	5.6	3.2	4.8	1.3	0		0
10	1.3	0	.40	3.4	4.5	12	17	4.8	1.2	0		0
11	1.3	0	.28	2.9	4.5	59	107	4.7	1.0	0		0
12	1.2	9.2	1.5	2.4	4.8	103	30	4.6	.80	0		0
13	1.3	85	1.1	1.7	8.0	8.3	12	4.4	1.2	0		0
14	1.2	42	.53	1.6	15	4.4	19	4.5	1.1	.23		0
15	1.1	2.9	.36	1.3	190	3.4	10	4.4	1.0	0		0
16	1.1	1.1	.35	1.1	270	5.8	6.1	4.5	.67	0		0
17	1.1	11	.28	1.1	21	5.1	4.8	4.3	.71	.50		0
18	1.2	1.6	1.1	1.1	6.9	57	4.2	4.2	.55	.40		0
19	1.1	.68	3.3	5.2	4.2	74	3.5	4.1	.62	.55		0
20	1.2	.70	32	45	3.1	25	3.2	3.0	.79	1.2		0
21	1.2	3.0	17	42	2.6	9.0	3.0	2.5	.82	0		0
22	1.3	7.0	4.0	7.0	2.0	7.5	2.8	2.7	.53	0		0
23	1.4	1.2	1.5	3.1	1.4	6.5	5.2	2.8	.72	0		0
24	1.3	4.5	1.0	2.1	1.2	5.7	6.2	1.6	.71	0		3.3
25	.40	1.5	.81	1.7	1.2	5.0	4.4	0	.35	0		5.8
26	0	2.9	.68	2.8	1.1	89	4.4	0	.85	0		4.2
27	0	6.1	.70	1.8	1.1	71	4.3	0	.87	0		.42
28	31	3.4	.72	12	1.1	99	3.6	0	.99	0		.01
29	22	1.2	77	4.6	---	260	4.2	0	3.3	0		.01
30	2.4	.72	36	1.7	---	275	3.7	.15	2.3	0		0
31	.63	---	5.4	1.2	---	928	---	1.7	---	0		---
TOTAL	86.71	186.06	189.22	1235.1	560.59	2199.5	639.1	92.25	34.48	19.48	0	13.74
MEAN	2.80	6.20	6.10	39.8	20.0	71.0	21.3	2.98	1.15	.63	0	.46
MAX	31	85	77	606	270	928	170	4.8	3.3	2.8	0	5.8
MIN	0	0	.26	1.1	.46	2.4	2.8	0	.35	0	0	0
AC-FT	172	369	375	2450	1110	4360	1270	183	68	39	0	27

CAL YR 1981 TOTAL 1335.03 MEAN 3.66 MAX 85 MIN 0 AC-FT 2650
WTR YR 1982 TOTAL 5256.23 MEAN 14.4 MAX 928 MIN 0 AC-FT 10430

ALAMEDA CREEK BASIN

11176180 ARROYO LAS POSITAS AT EL CHARRO ROAD, NEAR PLEASANTON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year.

CHEMICAL ANALYSES: Water years 1979 to current year.

SPECIFIC CONDUCTANCE: Water years 1979 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1978 to current year.

INSTRUMENTATION.--Water-quality monitor since December 1978.

COOPERATION.--Chemical-quality samples and specific conductance field data were furnished by Alameda County Flood Control and Water Conservation District, Zone 7.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 4,850 micromhos Jan. 1, 1981; minimum recorded, 215 micromhos Jan. 27, 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
OCT												
22...	1100	1.0	1040	8.0	13.0	224	54	37	32	120	53	3.6
28...	1400	40	700	7.5	16.0	152	71	31	18	78	51	2.8
DEC												
09...	1100	.20	2020	8.6	10.0	432	172	66	65	250	56	5.3
JAN												
07...	1700	9.0	1320	7.9	9.0	253	73	50	31	180	60	5.1
FEB												
02...	1200	.70	2900	8.4	8.0	536	206	96	72	420	63	8.1
APR												
12...	1200	10	970	8.5	14.0	174	0	35	21	130	61	4.4

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
OCT											
22...	3.2	82	160	.3	.1	538	558	.58	1400	19	6
28...	7.2	75	120	.2	6.4	385	397	1.4	810	81	66
DEC											
09...	2.9	200	390	.5	<1.9	1140	1180	3.5	4800	10	20
JAN											
07...	4.6	76	250	.4	18	722	767	3.9	3600	33	49
FEB											
02...	4.4	220	640	.5	14	1673	1690	4.8	8400	10	40
APR											
12...	4.4	11	160	.4	19	497	563	.96	2500	43	12

DAILY SPECIFIC CONDUCTANCE DATA NOT AVAILABLE AT TIME OF PUBLICATION

11176200 ARROYO MOCHO NEAR PLEASANTON, CA

LOCATION.--Lat 37°41'26", long 121°52'20", in Santa Rita Grant, Alameda County, Hydrologic Unit 18050004, 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.--142 mi² (368 km²).

WATER-DISCHARGE RECORDS

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) National Geodetic Vertical Datum of 1929. 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.--20 years, 15.1 ft³/s (0.427 m³/s), 10,940 acre-ft/yr (13.5 hm³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,330 ft³/s (122.6 m³/s) Jan. 5, 1982, gage height, 13.97 ft (4.258 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 250 ft³/s (7.08 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 13	1845	562 15.9	10.08 3.072	Mar. 12	0030	480 13.6	9.95 3.033
Dec. 29	1445	439 12.4	9.85 3.002	Mar. 31	1630	3,040 86.1	13.01 3.965
Jan. 5	0345	*4,330 122	13.97 4.258	Apr. 11	1200	491 13.9	9.97 3.039
Feb. 15	2300	1,150 32.6	11.07 3.374				

Minimum, no flow several days during November.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.88	.07	.18	9.0	6.4	31	629	11	17	10	6.6	1.6
2	1.0	.01	1.8	40	7.0	73	283	11	23	9.4	5.9	1.5
3	.97	0	4.9	9.8	7.2	36	182	20	22	9.7	5.6	.77
4	.72	0	5.4	726	5.5	19	247	20	22	13	5.7	1.0
5	.57	0	5.3	1740	5.7	11	105	17	22	12	6.1	1.5
6	.38	0	5.4	166	2.8	4.3	74	13	23	8.8	6.3	1.4
7	1.2	0	5.4	45	4.1	4.2	51	21	24	9.8	7.3	1.5
8	.97	0	9.7	19	9.4	5.4	40	24	21	6.1	7.0	1.4
9	.67	0	10	10	12	14	32	27	20	.34	8.2	3.5
10	.90	0	5.5	5.8	9.1	20	66	23	20	11	12	1.5
11	.84	0	5.3	6.3	7.3	67	401	22	22	16	8.5	2.0
12	.84	12	5.9	4.7	8.0	159	180	22	23	7.5	8.0	2.0
13	.90	161	5.6	4.0	11	17	77	24	24	6.1	11	3.4
14	.84	79	7.7	4.1	22	8.0	67	26	23	8.1	11	.19
15	.90	19	10	3.6	380	9.4	43	26	21	8.1	11	1.7
16	1.1	16	7.3	1.6	603	22	31	26	24	6.6	9.6	1.9
17	4.8	33	4.7	.49	110	30	27	24	24	9.4	10	1.6
18	5.1	11	.63	2.4	51	34	23	26	22	9.7	8.4	2.0
19	3.1	.45	4.8	8.8	30	29	17	24	22	7.7	8.0	1.1
20	.84	.33	50	53	17	13	16	23	20	7.8	6.9	1.5
21	.90	2.5	21	65	16	8.6	14	24	20	5.7	6.3	1.3
22	1.0	11	4.6	26	11	9.4	13	25	17	8.7	4.8	1.4
23	1.0	3.6	1.4	6.6	6.2	11	15	23	10	5.8	3.5	2.5
24	.84	4.1	.64	2.2	5.2	9.8	16	21	8.9	3.9	.60	11
25	.29	1.4	.41	6.4	5.0	10	16	20	8.2	4.7	1.1	19
26	.03	2.8	.28	8.3	7.9	33	13	21	6.4	4.4	1.6	13
27	1.3	6.4	.25	4.4	11	15	15	22	7.3	.78	1.3	12
28	67	3.0	.25	21	11	33	11	20	7.2	1.4	1.3	5.9
29	36	.89	141	9.9	---	220	8.8	17	14	2.7	2.9	4.2
30	2.5	1.0	66	6.8	---	261	10	6.8	13	4.6	2.3	4.1
31	.43	---	12	5.1	---	1640	---	4.2	---	6.5	1.8	---
TOTAL	138.81	368.55	403.34	3021.29	1381.8	2857.1	2722.8	638.0	551.0	226.32	190.60	107.46
MEAN	4.46	12.3	13.0	97.5	49.4	92.2	90.8	20.6	18.4	7.30	6.15	3.58
MAX	67	161	141	1740	603	1640	629	27	24	16	12	19
MIN	.03	0	.18	.49	2.8	4.2	8.8	6.8	6.4	.34	.60	.19
AC-FT	275	731	800	5990	2740	5670	5400	1270	1090	449	378	213

CAL YR 1981 TOTAL 4676.81 MEAN 12.8 MAX 221 MIN 0 AC-FT 9280
WTR YR 1982 TOTAL 12607.07 MEAN 34.5 MAX 1740 MIN 0 AC-FT 25010

11176200 ARROYO MOCHO NEAR PLEASANTON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1981 to current year.
 CHEMICAL ANALYSES: Water years 1981 to current year.
 SPECIFIC CONDUCTANCE: Water years 1981 to current year.

PERIOD OF DAILY RECORD.--
 SPECIFIC CONDUCTANCE: October 1980 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1980.

COOPERATION.--Chemical-quality samples were furnished by Alameda County Flood Control and Water Conservation District, Zone 7.

EXTREMES FOR PERIOD OF RECORD.--Maximum recorded, 2,010 micromhos Apr. 17, 1981; minimum recorded, 235 micromhos Jan. 27, 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
OCT												
22...	1300	1.0	980	8.5	13.0	207	47	35	29	110	53	3.4
29...	1600	9.9	610	7.8	14.0	100	30	22	11	58	55	2.6
DEC												
09...	1300	6.7	860	8.3	12.0	348	98	62	47	46	22	1.1
JAN												
07...	1100	39	600	7.8	6.0	192	32	34	26	53	37	1.7
FEB												
02...	1500	2.1	1180	8.4	14.0	347	87	60	48	110	41	2.6
MAR												
22...	1500	8.0	1610	8.8	16.0	369	89	57	55	180	51	4.2
APR												
02...	1200	280	500	7.9	13.0	167	17	29	23	40	34	1.4
12...	1500	175	510	8.2	15.0	173	13	28	25	45	36	1.5
MAY												
14...	1000	--	870	8.3	17.0	273	63	45	39	72	36	1.9
AUG												
12...	1600	3.0	880	8.1	26.0	332	100	57	46	45	23	1.1
SEP												
23...	1145	2.2	850	8.2	19.0	330	85	43	54	47	24	1.1

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
OCT											
22...	3.0	77	160	.3	.2	512	524	.15	1300	18	9
29...	3.6	20	87	.2	5.8	250	264	.88	750	62	26
DEC											
09...	3.0	58	98	.2	17	482	488	3.0	490	<10	6
JAN											
07...	3.5	17	67	.2	17	315	341	2.2	900	--	72
FEB											
02...	2.4	82	180	.3	17	658	669	3.3	1916	<10	13
MAR											
22...	3.2	98	280	.3	13	858	882	2.3	3400	5	10
APR											
02...	2.9	7.0	47	.5	15	255	287	1.1	620	20	14
12...	2.9	7.0	57	.2	15	277	303	.93	670	25	11
MAY											
14...	2.3	62	120	.2	15	482	489	2.0	950	<9	5
AUG											
12...	2.8	57	91	.2	17	456	540	2.8	530	<3	8
SEP											
23...	1.9	55	87	.2	14	449	454	2.2	--	--	--

< Actual value is known to be less than the value shown.

DAILY SPECIFIC CONDUCTANCE DATA NOT AVAILABLE AT TIME OF PUBLICATION

11176300 TASSAJARA CREEK NEAR PLEASANTON, CA

LOCATION.--Lat 37°41'57", long 121°52'41", in Santa Rita Grant, Alameda County, Hydrologic Unit 18050004, at center pier on upstream side of bridge on old Santa Rita Road, 800 ft (244 m) downstream from bridge on Interstate Highway 580 and 2.6 mi (4.2 km) north of Pleasanton.

DRAINAGE AREA.--26.8 mi² (69.4 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1914 to May 1919 and October 1921 to September 1930, published as "Tassajara Creek near Pleasanton." October 1978 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Altitude of gage is 345 ft (105 m), from topographic map.

REMARKS.--No regulation or diversion above station.

AVERAGE DISCHARGE.--16 years, 2.31 ft³/s (0.065 m³/s), 1,670 acre-ft/yr (2.06 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 750 ft³/s (21.2 m³/s) Jan. 13, 1980, gage height, 8.50 ft (2.591 m), from rating curve extended above 300 ft³/s (8.50 m³/s) on basis of slope-area measurement at gage height 4.55 ft (1.387 m); no flow at times.

NOTE.--Record for current year not available at time of publication.

ALAMEDA CREEK BASIN

11176300 TASSAJARA CREEK NEAR PLEASANTON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year.

CHEMICAL ANALYSES: Water years 1980 to current year.

SPECIFIC CONDUCTANCE: Water years 1979 to current year.

PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: March 1979 to current year.

INSTRUMENTATION.--Water-quality monitor since March 1979.

COOPERATION.--Chemical-quality samples and specific conductance field data furnished by Alameda County Flood Control and Water Conservation District, Zone 7.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,560 micromhos Dec. 6, 1980; minimum recorded, 164 micromhos Feb. 19, 1980.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
DEC 21...	1100	--	540	7.8	12.0	146	6	32	16	60	46	2.2
JAN 07...	1000	11	600	8.1	3.0	199	19	45	21	51	35	1.6
FEB 02...	1600	2.8	1020	8.4	12.0	--	--	--	--	--	--	--
MAR 22...	1700	5.0	970	8.6	15.0	306	36	68	33	100	41	2.6

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
DEC 21...	7.6	39	49	.3	17	305	357	2.0	410	47	35
JAN 07...	2.8	80	32	.4	19	359	360	1.9	300	18	34
FEB 02...	--	140	65	.4	--	--	634	.69	700	--	--
MAR 22...	3.1	130	67	.4	17	581	577	.18	650	<3	3

DAILY SPECIFIC CONDUCTANCE DATA NOT AVAILABLE AT TIME OF PUBLICATION.

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, Hydrologic Unit 18050004, 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 mi² (337 km²).

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.--19 years, 31.8 ft³/s (0.901 m³/s), 23,040 acre-ft/yr (28.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,030 ft³/s (199 m³/s) Jan. 5, 1982, gage height 6.22 ft (1.896 m); no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft³/s (14.2 m³/s) and maximum (*) based on rating extended above 975 ft³/s (27.6 m³/s) on basis of slope-area measurement:

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 29	1915	882 25.0	2.44 0.744	Mar. 31	1730	3,680 104	4.38 1.335
Jan. 5	0030	*7,030 199	6.22 1.896	Apr. 11	0600	2,250 63.7	3.47 1.058
Feb. 16	0415	2,460 69.7	3.61 1.100				

Minimum, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	4.4	109	68	42	1330	44	11	6.7	.53	0
2		0	3.2	156	60	120	599	42	11	6.1	.49	0
3		0	3.0	141	53	138	655	40	10	5.4	.53	0
4		0	3.0	2670	48	85	668	38	9.9	5.0	.56	0
5		0	2.9	2930	43	66	419	34	9.9	4.5	.52	0
6		0	2.4	466	40	57	301	32	9.6	4.4	.49	0
7		0	2.9	273	37	50	225	30	9.4	3.9	.44	0
8		0	3.0	188	35	46	198	27	9.2	3.8	.37	0
9		0	3.4	101	33	42	186	26	8.5	3.4	.31	0
10		0	3.2	78	31	45	216	25	7.8	3.1	.31	0
11		0	3.0	70	29	93	1660	24	7.1	2.7	.32	0
12		0	3.0	62	28	135	787	23	7.0	2.7	.33	0
13		114	3.0	50	34	96	417	22	7.0	2.5	.32	0
14		62	3.0	39	52	80	286	21	6.8	2.3	.32	0
15		11	2.4	31	557	76	217	19	6.3	2.2	.34	0
16		6.7	2.4	25	1490	90	195	18	6.1	2.0	.24	0
17		18	2.4	24	420	217	180	17	5.9	1.9	.18	0
18		14	2.5	24	221	370	150	17	5.2	1.9	.11	0
19		9.1	4.9	26	178	246	132	15	6.0	1.8	.06	.41
20		7.5	97	89	152	170	118	15	7.0	1.7	.02	.45
21		6.0	69	246	126	133	105	15	6.4	1.5	0	.27
22		7.2	34	186	98	107	95	14	6.4	1.4	0	.16
23		6.6	19	154	67	90	86	14	7.3	1.2	0	.17
24		9.5	14	178	51	79	78	13	6.4	1.1	0	1.4
25		9.8	10	193	46	70	71	13	5.4	1.1	0	1.9
26		8.2	8.2	195	42	71	65	13	4.6	1.1	0	1.7
27		9.8	9.9	160	38	69	60	12	4.6	1.0	0	1.0
28		8.4	9.5	164	35	89	56	12	4.6	.92	0	.79
29		6.2	284	120	---	213	51	12	4.6	.80	0	.65
30		5.0	420	95	---	488	47	12	6.4	.72	0	.53
31		---	133	80	---	1740	---	12	---	.63	0	---
TOTAL	0	319.0	1165.6	9323	4112	5413	9653	671	217.4	79.47	6.79	9.43
MEAN	0	10.6	37.6	301	147	175	322	21.6	7.25	2.56	.22	.31
MAX	0	114	420	2930	1490	1740	1660	44	11	6.7	.56	1.9
MIN	0	0	2.4	24	28	42	47	12	4.6	.63	0	0
AC-FT	0	633	2310	18490	8160	10740	19150	1330	431	158	13	19
CAL YR 1981	TOTAL	4380.62	MEAN 12.0	MAX 420	MIN 0	AC-FT 8690						
WTR YR 1982	TOTAL	30969.69	MEAN 84.8	MAX 2930	MIN 0	AC-FT 61430						

ALAMEDA CREEK BASIN

11176500 ARROYO VALLE NEAR LIVERMORE, CA

LOCATION.--Lat 37°37'24", long 121°45'28", in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, 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 mi² (381 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1912 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) National Geodetic Vertical Datum of 1929. 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 hm³). 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 ft³/s (0.838 m³/s), 21,450 acre-ft/yr (26.4 hm³/yr). 14 years (1969-82), 25.2 ft³/s (0.714 m³/s), 18,260 acre-ft/yr (22.5 hm³).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,200 ft³/s (346 m³/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, 2,160 ft³/s (61.2 m³/s) Feb. 20, 1980, gage height, 7.89 ft (2.405 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 23, 1955, reached a stage of 13.93 ft (4.246 m) from flood-marks, discharge, 18,200 ft³/s (515 m³/s), on basis of contracted-opening and slope area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,940 ft³/s (54.9 m³/s) Apr. 2, gage height, 7.55 ft (2.301 m); minimum daily, 0.55 ft³/s (0.016 m³/s) Oct. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	5.8	43	4.1	.81	1.1	1020	6.3	9.6	10	10	33
2	46	5.8	38	7.2	2.9	1.2	1820	6.6	11	10	21	33
3	46	5.8	38	7.2	7.5	1.0	1870	6.3	9.7	10	29	33
4	46	6.3	38	5.6	7.6	1.0	1250	6.3	8.6	10	29	33
5	45	6.0	38	454	7.3	1.0	650	6.6	8.6	11	29	33
6	45	5.8	38	1060	6.7	.96	355	4.5	8.7	11	29	33
7	45	5.8	38	1030	6.7	.89	105	.86	9.0	11	29	33
8	43	6.1	38	852	6.7	.86	2.1	3.2	9.1	10	29	33
9	38	6.3	38	554	6.7	.86	1.5	6.6	8.7	10	29	33
10	38	6.3	38	549	6.7	.95	1.4	6.7	8.1	9.9	29	33
11	38	6.3	38	169	5.6	1.1	491	6.7	8.1	9.8	30	33
12	38	6.5	38	3.7	4.2	3.0	915	2.1	8.1	9.6	30	33
13	38	8.6	38	3.2	4.2	6.3	756	3.3	8.1	9.6	29	34
14	38	7.3	38	2.9	4.4	6.3	472	5.4	8.1	9.5	29	22
15	38	4.5	39	2.7	4.7	6.3	261	5.4	8.1	9.5	29	4.8
16	38	.96	39	2.7	224	6.9	2.3	5.4	8.5	10	29	9.2
17	38	1.3	39	2.6	499	6.7	1.6	5.6	8.6	10	29	9.1
18	37	11	35	2.4	496	6.7	1.1	5.8	9.1	11	29	9.1
19	37	55	30	2.0	395	6.7	.83	5.4	9.1	11	29	9.1
20	37	57	30	1.1	250	6.7	.73	5.4	9.1	11	29	9.0
21	37	57	30	1.0	153	6.7	.73	5.4	8.9	11	29	8.9
22	33	57	30	.86	2.1	6.5	3.9	5.4	9.3	11	29	8.8
23	1.0	49	30	.86	1.5	6.3	6.5	5.4	10	11	29	9.2
24	.70	37	30	.86	1.2	6.3	6.3	5.4	10	11	29	9.1
25	.62	37	30	.86	1.2	6.3	6.3	5.5	10	11	29	9.6
26	.55	43	30	1.0	1.1	6.3	6.5	5.8	10	11	29	9.5
27	1.1	48	30	1.0	.97	6.3	6.7	6.2	10	11	30	9.1
28	1.8	48	30	1.1	.98	6.5	6.4	7.1	9.9	11	33	9.2
29	.93	48	31	1.0	---	7.2	6.3	8.3	9.2	11	33	9.3
30	.74	47	15	1.0	---	150	6.3	9.1	8.9	11	33	9.0
31	3.5	---	1.3	.94	---	115	---	9.1	---	10	33	---
TOTAL	895.94	689.46	1036.3	4725.88	2108.76	389.92	10032.49	177.16	272.2	323.9	891	594.0
MEAN	28.9	23.0	33.4	152	75.3	12.6	334	5.71	9.07	10.4	28.7	19.8
MAX	46	57	43	1060	499	150	1870	9.1	11	11	33	34
MIN	.55	.96	1.3	.86	.81	.86	.73	.86	8.1	9.5	10	4.8
AC-FT	1780	1370	2060	9370	4180	773	19900	351	540	642	1770	1180
CAL YR 1981	TOTAL	8564.37	MEAN	23.5	MAX	73	MIN	.52	AC-FT	16990		
WTR YR 1982	TOTAL	22137.01	MEAN	60.6	MAX	1870	MIN	.55	AC-FT	43910		

11176500 ARROYO VALLE NEAR LIVERMORE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953, 1959 to December 1978, 1981 to current year.

CHEMICAL ANALYSES: Water years 1953, 1959-66, 1981 to current year.

WATER TEMPERATURES: Water years 1960-61, 1963 to December 1978.

SEDIMENT RECORDS: Water years 1963-67.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1959 to September 1961, October 1962 to December 1978.

SEDIMENT RECORDS: October 1962 to September 1967.

COOPERATION.--Water-quality analyses furnished by Alameda County Flood Control and Water Conservation District, zone 7.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHUS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
OCT 27...	1500	.50	850	8.0	--	256	76	53	30	75	39	2.1
JAN 06...	1300	1100	320	7.9	10.0	123	13	26	14	17	23	.7
FEB 02...	1000	.60	920	7.6	8.0	325	105	66	39	71	32	1.8
MAR 22...	0900	7.0	490	7.8	9.0	185	35	38	22	31	26	1.0
APR 02...	1500	1700	370	7.9	10.0	145	15	30	17	19	22	.7
09...	1400	1.0	732	7.6	15.0	253	33	52	30	54	31	1.5
DATE		POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
OCT 27...		3.0	100	89	.2	20	479	504	<.09	600	10	8
JAN 06...		2.3	12	15	.1	9.0	162	179	.28	130	26	4
FEB 02...		2.8	180	69	.2	15	576	570	<.09	780	<10	34
MAR 22...		2.2	69	23	.1	9.8	285	292	.10	280	8	15
APR 02...		2.2	26	14	.6	9.8	197	212	.23	160	19	<3
09...		2.9	97	47	.2	17	433	435	<.10	660	40	90

ALAMEDA CREEK BASIN

11176600 ARROYO VALLE AT PLEASANTON, CA

LOCATION.--Lat 37°40'02", long 121°53'02", in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on right bank 0.6 mi (1.0 km) northwest of Pleasanton City Hall, and 320 ft (98 m) downstream from Hopyard Road bridge.

DRAINAGE AREA.--171 mi² (443 km²).

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) National Geodetic Vertical Datum of 1929.

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 hm³). Water imported from Sacramento-San Joaquin Delta (see REMARKS for station 11176500). Flow affected by pumping and gravel operations above station.

AVERAGE DISCHARGE.--11 years (1958-68), 27.7 ft³/s (0.784 m³/s), 20,050 acre-ft/yr (24.7 hm³/yr); 14 years (1969-82), 20.3 ft³/s (0.574 m³/s), 14,710 acre-ft/yr (18.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,300 ft³/s (320 m³/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, 2,320 ft³/s (65.7 m³/s) Feb. 21, 1980, gage height, 13.41 ft (4.087 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,485 ft³/s (70.4 m³/s) Apr. 3, gage height, 13.69 ft (4.173 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	.25	42	17	5.7	16	493	5.3	2.4	.98	.02	23
2	35	0	41	15	6.9	19	1640	4.5	2.8	.79	0	23
3	36	0	39	14	6.5	14	1830	4.0	3.0	.88	.17	23
4	36	0	38	104	6.0	12	1430	3.6	3.1	.91	7.6	23
5	36	0	36	198	6.9	12	823	3.3	2.6	.91	12	23
6	37	0	33	936	6.9	9.0	471	3.1	2.0	.81	14	24
7	38	0	35	953	5.6	6.0	230	2.9	1.5	.66	16	24
8	38	0	37	900	7.2	7.4	53	2.3	1.2	.56	16	23
9	35	0	37	569	9.8	8.6	32	1.3	1.4	.55	18	23
10	31	0	38	546	7.7	10	31	.67	1.3	.53	18	23
11	31	0	37	386	8.1	13	233	.43	1.1	.49	18	25
12	30	0	36	53	8.3	8.8	932	.97	.93	.32	18	23
13	30	.37	34	28	7.4	6.1	894	1.2	.81	.22	18	23
14	30	10	35	21	11	5.5	541	.88	.66	.13	18	24
15	30	9.1	37	17	49	4.7	445	.31	.56	0	18	19
16	29	6.2	36	12	129	9.4	61	.06	.48	0	18	8.6
17	29	9.2	36	7.9	480	9.0	28	.12	.21	0	18	5.3
18	29	2.6	35	8.3	504	9.0	20	.22	.07	0	18	3.9
19	28	1.8	37	10	478	7.5	15	.28	0	0	19	3.1
20	29	25	51	20	265	7.5	13	.32	0	0	22	2.2
21	29	46	31	14	237	6.2	10	.28	0	.09	19	1.6
22	29	51	27	12	60	7.6	9.2	.22	0	.13	19	1.1
23	26	52	26	8.0	28	9.7	7.8	.18	0	.08	19	1.6
24	12	44	26	3.8	22	8.9	7.5	.04	0	.02	19	2.9
25	4.7	35	25	4.3	18	8.9	8.0	0	.08	0	19	3.9
26	1.7	35	25	6.2	16	11	8.0	0	.45	.04	19	2.5
27	.81	41	25	3.3	12	8.9	7.8	0	.52	.14	19	2.1
28	19	43	25	8.4	8.2	8.7	8.1	0	.38	.14	21	1.5
29	8.0	43	75	6.9	---	25	8.7	.03	.70	.36	23	.93
30	3.5	42	45	5.1	---	40	7.2	.58	1.0	.26	23	.55
31	1.4	---	24	3.4	---	399	---	1.5	---	.13	23	---
TOTAL	785.11	533.15	1104	4890.6	2410.2	728.4	10297.3	38.59	29.25	10.13	509.79	387.78
MEAN	25.3	17.8	35.6	158	86.1	23.5	343	1.24	.98	.33	16.4	12.9
MAX	38	52	75	953	504	399	1830	5.3	3.1	.98	23	25
MIN	.81	0	24	3.3	5.6	4.7	7.2	0	0	0	0	.55
AC-FT	1560	1060	2190	9700	4780	1440	20420	77	58	20	1010	769
CAL YR 1981 TOTAL	6049.12		MEAN 16.6	MAX 75	MIN 0	AC-FT 12000						
WTR YR 1982 TOTAL	21724.30		MEAN 59.5	MAX 1830	MIN 0	AC-FT 43090						

11176600 ARROYO VALLE AT PLEASANTON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.
 CHEMICAL ANALYSES: Water years 1975, 1978 to current year.
 SPECIFIC CONDUCTANCE: Water years 1975 to current year.
 WATER TEMPERATURES: Water years 1975-78.

PERIOD OF DAILY RECORD.--
 SPECIFIC CONDUCTANCE: December 1974 to current year.
 WATER TEMPERATURES: December 1974 to September 1978.

INSTRUMENTATION.--Water-quality monitor since December 1974.

COOPERATION.--Chemical-quality samples and specific conductance field data were furnished by Alameda County Flood Control and Water Conservation District, Zone 7.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 736 micromhos Mar. 30, 1976; minimum recorded, 82 micromhos Mar. 2, 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
OCT 22...	1600	29	540	9.0	18.0	128	18	25	16	56	48	2.2
DEC 09...	1400	38	600	8.5	12.0	161	51	33	19	60	44	2.1
JAN 07...	1500	1000	340	7.6	9.0	125	15	27	14	19	24	.8
FEB 02...	1700	6.2	470	8.7	11.0	180	40	39	20	31	27	1.0
MAR 22...	1400	8.0	490	8.8	15.0	176	16	36	21	35	30	1.2
AUG 12...	1400	18	440	8.1	24.0	150	28	32	17	34	33	1.2

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
OCT 22...	2.2	35	76	.2	12	289	302	<.09	150	22	7
DEC 09...	3.0	58	88	.1	15	342	346	.53	230	19	5
JAN 07...	2.3	17	18	.1	9.8	173	191	.38	140	40	6
FEB 02...	2.2	42	46	.2	9.2	274	273	.89	230	16	4
MAR 22...	2.3	43	39	.1	7.2	280	284	.20	280	5	4
AUG 12...	2.0	44	40	.2	11	254	262	<.10	250	9	4

< Actual value is known to be less than the value shown.

DAILY SPECIFIC CONDUCTANCE DATA NOT AVAILABLE AT TIME OF PUBLICATION.

ALAMEDA CREEK BASIN

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, Hydrologic Unit 18050004, 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 mi² (1,049 km²).

WATER-DISCHARGE RECORDS

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) National Geodetic Vertical Datum of 1929. 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.--Flow partly regulated by Del Valle Reservoir 15 mi (24 km) upstream, capacity, 77,100 acre-ft (95.1 hm³). 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 ft³/s (1.204 m³/s), 30,790 acre-ft/yr (38.0 hm³/yr); 12 years (water years 1970-81), 49.3 ft³/s (1.396 m³/s), 35,720 acre-ft/yr (44.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 9,810 ft³/s (278 m³/s) Jan. 25, 1914; no flow at times.

NOTE.--Record for current year not available at time of publication.

11177000 ARROYO DE LA LAGUNA NEAR PLEASANTON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year.

CHEMICAL ANALYSES: Water years 1979 to current year.

SPECIFIC CONDUCTANCE: Water years 1979 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1979 to current year.

INSTRUMENTATION.--Water-quality monitor since August 1979.

COOPERATION.--Chemical-quality samples and specific conductance field data were furnished by Alameda County Flood Control and Water Conservation District, Zone 7.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 2,450 micromhos May 12, 1981; minimum recorded, 245 micromhos Jan. 13, 1980.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
OCT 28...	1600	112	340	7.4	17.0	95	32	20	11	30	39	1.4
DEC 09...	1500	50	770	8.2	12.0	245	75	47	31	61	35	1.7
JAN 07...	1600	990	360	7.5	11.0	138	18	29	16	23	26	.9
FEB 02...	1800	30	1070	8.0	10.0	354	94	76	40	84	34	2.0
APR 02...	1200	2100	410	7.4	--	154	14	32	18	25	26	.9
12...	1600	1200	400	8.1	12.0	157	17	33	18	24	25	.9
MAY 14...	1100	--	980	8.0	16.0	252	0	48	32	60	34	1.7
AUG 12...	1500	30	710	7.9	22.0	246	51	49	30	53	32	1.5
SEP 23...	1500	6.2	1045	8.1	19.0	359	78	73	43	93	36	2.2

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
OCT 28...	4.0	30	42	.2	5.0	180	200	1.1	210	100	40
DEC 09...	2.9	66	100	.2	16	426	425	1.3	370	12	23
JAN 07...	2.5	26	28	.2	10	207	215	.54	180	32	9
FEB 02...	2.5	120	110	.3	16	605	605	1.7	--	--	--
APR 02...	2.3	31	20	.1	12	225	236	.43	220	10	3
12...	2.5	25	27	.2	12	226	239	.40	250	17	9
MAY 14...	1.9	100	110	.2	11	520	567	2.2	860	16	43
AUG 12...	2.2	63	71	.2	13	399	405	.69	460	<3	20
SEP 23...	2.8	98	130	.3	12	621	634	.12	--	--	--

DAILY SPECIFIC CONDUCTANCE DATA NOT AVAILABLE AT TIME OF PUBLICATION.

ALAMEDA CREEK BASIN

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, Hydrologic Unit 18050004, 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 mi² (1,639 km²).

PERIOD OF RECORD.--January 1891 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Published as "at Niles Dam" 1891-1900, and as "at Sunol Glen" 1901-21.

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) National Geodetic Vertical Datum of 1929. Prior to 1901, nonrecording gage at site 1 mi (2 km) upstream at different datum. From 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 since 1916 by Calaveras Reservoir, although dam not completed until 1925, usable capacity, 96,800 acre-ft (119 hm³), most of which is diverted for San Francisco water supply; since February 1965 by San Antonio Reservoir, capacity, 51,000 acre-ft (62.9 hm³); and since September 1968 by Del Valle Reservoir, 23 mi (37 km) upstream, capacity, 77,100 acre-ft (95.1 hm³). Natural flow of stream affected by water imported from Delta-Mendota Canal beginning in 1962. Other diversions from ground-water basin for irrigation of 9,000 acres (36.4 km²) above station.

AVERAGE DISCHARGE.--71 years (water years 1892-1962), 123 ft³/s (3.483 m³/s), 89,050 acre-ft/yr (110 hm³/yr); 20 years (water years 1963-82), 103 ft³/s (2.917 m³/s), 74,620 acre-ft/yr (92.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,000 ft³/s (821 m³/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 1963-82), 1.4 ft³/s (0.040 m³/s) Dec. 7, 8, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,700 ft³/s (360 m³/s) Jan. 5, gage height, 12.96 ft (3.950 m); minimum daily, 2.1 ft³/s (0.059 m³/s) Nov. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	7.7	50	131	73	217	4980	103	47	34	41	42
2	54	5.8	48	380	72	497	4010	98	58	28	42	47
3	54	4.7	48	129	66	273	3700	99	57	30	32	46
4	52	4.0	48	3760	63	180	3320	104	56	31	32	55
5	55	3.3	47	6510	59	150	2220	98	54	32	55	60
6	45	2.1	44	1620	58	130	1510	88	52	30	54	57
7	44	3.5	44	1280	51	119	990	95	56	27	60	57
8	43	3.4	46	1170	54	110	630	97	52	27	58	54
9	38	3.0	55	791	60	110	491	99	49	22	48	55
10	37	2.9	50	676	59	116	565	94	47	22	52	54
11	33	3.2	47	568	52	265	1840	88	49	29	52	53
12	31	3.3	51	190	53	297	2420	85	51	28	51	53
13	32	354	50	126	63	147	2030	83	51	21	43	57
14	31	420	45	104	145	128	1520	86	53	21	39	38
15	31	57	51	95	2210	125	1170	81	48	22	41	33
16	30	36	50	85	4070	223	600	81	51	32	41	31
17	30	113	45	72	1050	339	439	76	50	43	39	30
18	33	38	43	68	925	498	354	79	49	46	37	40
19	33	17	59	102	778	522	291	75	47	46	38	45
20	32	20	646	326	519	453	243	72	43	46	40	32
21	30	52	188	529	445	382	215	69	43	44	38	26
22	31	110	81	197	264	326	191	69	44	43	36	28
23	30	68	56	139	177	281	175	67	36	44	34	36
24	21	99	47	130	156	248	165	63	32	44	32	77
25	12	52	42	146	137	203	159	56	30	42	31	103
26	7.3	73	41	177	126	237	151	56	27	43	32	123
27	5.5	84	62	103	125	187	146	56	29	39	33	86
28	164	90	44	226	115	285	130	56	28	38	33	92
29	145	57	979	133	---	1090	117	58	35	39	35	27
30	27	52	664	96	---	1150	109	47	37	39	37	22
31	12	---	167	80	---	7580	---	45	---	41	36	---
TOTAL	1271.8	1868.6	3938	20139	12025	16868	34881	2423	1361	1073	1272	1559
MEAN	41.0	62.3	127	650	429	544	1163	78.2	45.4	34.6	41.0	52.0
MAX	164	420	979	6510	4070	7580	4980	104	58	46	60	123
MIN	5.5	2.1	41	68	51	110	109	45	27	21	31	22
AC-FT	2520	3710	7810	39950	23850	33460	69190	4810	2700	2130	2520	3090
CAL YR 1981	TOTAL	12640.5	MEAN	59.3	MAX	979	MIN	2.1	AC-FT	42920		
WTR YR 1982	TOTAL	98679.4	MEAN	270	MAX	7580	MIN	2.1	AC-FT	195700		

11180500 DRY CREEK AT UNION CITY, CA

LOCATION.--Lat 37°36'22", long 122°01'22", in Arroyo de la Alameda Grant, Alameda County, Hydrologic Unit 18050004, 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 mi² (24.32 km²).

PERIOD OF RECORD.--October 1916 to September 1919 (published as "near Decoto"), April 1959 to current year.

REVISED RECORDS.--WSP 2129: 1962(M), 1968(P), 1965(P). WRD CA-76-2: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 85.12 ft (25.945 m) National Geodetic Vertical Datum of 1929. 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.--26 years, 2.24 ft³/s (0.063 m³/s), 1,620 acre-ft/yr (2.00 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 930 ft³/s (26.3 m³/s) Oct. 13, 1962, gage height, 5.27 ft (1.606 m) from outside gage, from rating curve extended above 140 ft³/s (3.96 m³/s) on basis of slope-area measurement of maximum flow; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 40 ft³/s (1.13 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 29	1400	291 8.24	3.20 0.975	Mar. 18	1415	72 2.04	2.46 .750
Jan. 4	2400	579 16.4	3.88 1.183	Mar. 31	0945	481 13.6	3.66 1.116
Feb. 15	2130	*637 18.0	4.00 1.219	Apr. 10	2115	111 3.14	2.64 .805
Mar. 2	1045	45 1.27	2.30 .701	Apr. 14	1045	124 3.51	2.69 .820

Minimum, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	.01	12	4.9	9.9	92	4.7	1.2	.53	.01	0
2	0	0	0	16	4.2	19	46	4.6	1.3	.46	.01	0
3	0	0	0	10	3.9	9.5	47	4.3	1.3	.36	0	0
4	0	0	0	241	3.5	7.7	35	3.9	1.2	.34	0	0
5	0	0	0	150	2.9	6.6	26	3.6	1.2	.32	0	0
6	0	0	0	31	2.7	6.0	22	3.5	1.0	.28	0	0
7	0	0	0	17	2.6	5.6	17	3.4	.83	.23	0	0
8	0	0	0	12	2.5	5.2	15	3.3	.77	1.0	0	0
9	0	0	0	9.2	2.4	4.8	13	3.2	.71	1.2	0	0
10	0	0	0	7.7	2.3	5.5	30	3.2	.72	.14	0	0
11	0	0	0	6.7	2.0	13	35	3.1	.77	.13	0	0
12	0	.11	0	5.6	1.9	7.6	26	2.9	.76	.12	0	0
13	0	.59	0	4.3	2.5	6.1	19	2.9	.69	.11	0	0
14	0	0	0	3.9	18	7.7	34	2.9	.62	.17	0	0
15	0	0	0	3.6	273	6.3	21	2.7	.56	.03	0	0
16	0	.06	0	3.2	177	11	16	2.5	.46	.02	0	0
17	0	.10	0	3.1	39	21	14	2.4	.43	.03	0	0
18	0	.01	.01	3.1	24	35	12	2.4	.44	.02	0	0
19	0	.01	.20	3.5	17	22	10	2.2	.41	.02	0	0
20	0	.01	21	11	12	15	9.4	2.0	.40	.02	0	0
21	0	.04	8.8	13	10	12	8.4	2.0	.41	.01	0	0
22	0	.01	4.7	6.1	8.7	10	7.7	2.0	.39	.01	0	0
23	0	.05	3.1	5.3	7.5	8.7	7.1	1.8	.35	.01	0	0
24	0	2.4	2.4	4.9	6.8	7.7	6.8	1.6	.34	.01	0	0
25	0	.67	1.8	4.3	6.2	7.0	6.4	1.5	.29	.01	0	.04
26	0	.76	1.6	6.7	5.7	9.0	6.0	1.5	.24	.01	0	.01
27	.02	.75	9.1	4.9	5.5	6.8	5.8	1.4	.21	.01	0	.01
28	.24	.96	4.1	16	5.2	12	5.5	1.4	.21	.01	0	.01
29	.01	.29	78	8.0	---	35	5.2	1.4	1.1	.01	0	.01
30	0	.08	31	6.5	---	23	4.9	1.4	.59	.01	0	.01
31	0	---	14	5.6	---	267	---	1.3	---	.01	0	---
TOTAL	.27	6.90	179.82	635.2	653.9	622.7	603.2	81.0	19.90	5.64	.02	.09
MEAN	.009	.23	5.80	20.5	23.4	20.1	20.1	2.61	.66	.18	.0006	.003
MAX	.24	2.4	78	241	273	267	92	4.7	1.3	1.2	.01	.04
MIN	0	0	0	3.1	1.9	4.8	4.9	1.3	.21	.01	0	0
AC-FT	.5	14	357	1260	1300	1240	1200	161	39	11	.04	.2

CAL YR 1981 TOTAL 382.59 MEAN 1.05 MAX 78 MIN 0 AC-FT 759
WTR YR 1982 TOTAL 2808.64 MEAN 7.69 MAX 273 MIN 0 AC-FT 5570

ALAMEDA CREEK BASIN

11180700 PATTERSON CREEK AT UNION CITY, CA

LOCATION.--Lat 37°55'09", long 122°02'50", in Potrero de Los Cerritos Grant, Alameda County, Hydrologic Unit 18050004, 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) National Geodetic Vertical Datum of 1929. Prior to Oct. 26, 1966, at site 0.2 mi (0.3 km) downstream at same datum.

REMARKS.--Records poor. This stream is a tributary 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. Channel cleaned in 1980.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,900 ft³/s (309 m³/s) Feb. 19, 1980, gage height, 14.71 ft (4.484 m); no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,100 ft³/s (399 m³/s) Mar. 31, gage height, 15.81 ft (4.819 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	.16	0	87	11	268	4770	81	20	.10		0
2	3.9	0	0	302	11	430	3670	76	19	0		0
3	3.3	0	0	106	20	277	3480	74	18	0		0
4	2.2	0	0	4060	19	124	3130	69	17	0		0
5	1.7	0	0	6910	19	98	2180	66	15	0		0
6	1.1	0	0	1470	34	113	1580	62	14	0		0
7	5.4	0	0	1160	32	108	1040	58	12	0		0
8	5.1	0	0	1000	32	105	662	55	11	0		0
9	28	0	0	702	37	104	523	54	10	0		0
10	24	0	.61	546	37	148	525	52	9.6	0		0
11	5.6	0	1.7	487	32	329	1730	49	8.8	0		0
12	.42	11	2.4	151	28	304	2380	48	8.0	0		0
13	.01	203	2.7	50	98	181	1970	45	7.2	0		0
14	0	706	1.4	27	116	148	1470	44	6.5	0		0
15	0	66	2.6	15	2060	156	1060	43	6.0	0		0
16	0	34	2.0	41	4530	234	505	42	5.2	0		0
17	0	83	1.8	32	981	331	250	40	4.3	0		0
18	0	1.1	11	41	834	474	248	38	3.5	0		0
19	0	.02	25	201	694	506	191	37	2.6	0		0
20	0	0	874	245	364	315	180	34	2.1	0		0
21	0	.66	187	489	318	315	161	32	1.7	0		0
22	0	1.7	5.7	136	232	292	147	31	1.5	0		0
23	0	.13	13	73	157	284	135	30	1.3	0		0
24	0	1.9	.48	79	142	248	131	29	1.0	0		0
25	0	.02	0	132	126	219	130	28	.86	0		4.8
26	0	.06	0	136	113	371	126	27	.70	0		2.0
27	0	.40	5.0	83	110	231	101	26	.56	0		1.3
28	213	3.4	8.9	251	103	295	97	24	.46	0		.82
29	184	.29	1180	125	---	1070	89	23	.28	0		.60
30	48	0	945	59	---	1260	82	22	.16	0		.40
31	6.6	---	188	15	---	7970	---	21	---	0		---
TOTAL	538.63	1112.84	3458.29	19211	11290	17308	32743	1360	208.32	.10	0	9.92
MEAN	17.4	37.1	112	620	403	558	1091	43.9	6.94	.003	0	.33
MAX	213	706	1180	6910	4530	7970	4770	81	20	.10	0	4.8
MIN	0	0	0	15	11	98	82	21	.16	0	0	0
AC-FT	1070	2210	6860	38110	22390	34330	64950	2700	413	.2	0	20
CAL YR 1981 TOTAL	11194.11			MEAN 30.7	MAX 1180	MIN 0	AC-FT 22200					
WTR YR 1982 TOTAL	87240.10			MEAN 239	MAX 7970	MIN 0	AC-FT 173000					

DRAINAGE AREA.--18.0 mi² (46.6 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1980 to current year.

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

REMARKS.--Records fair. Some regulation of low flow by ponds above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,150 ft³/s (32.6 m³/s) Jan. 4, 1982, gage height, 8.70 ft (2.652 m); minimum daily, no flow for several days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 275 ft³/s (7.79 m³/s) and maximum (*):

[illegible]

Minimum, no flow Oct. 1, 16, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	2.2	1.5	32	8.4	20	202	10	2.7	1.6	.47	.18
2	.01	2.3	1.4	34	7.2	35	113	9.7	2.9	2.0	.42	.20
3	.44	1.9	1.3	31	6.4	26	110	9.4	2.8	1.4	.43	.20
4	.04	2.3	1.2	558	5.6	24	89	9.3	2.7	1.4	.89	.19
5	.02	2.0	1.2	409	5.2	22	67	9.2	2.9	1.3	.59	.19
6	.02	2.1	1.1	94	4.7	21	52	9.0	2.9	1.5	.85	.18
7	2.8	1.5	1.1	55	4.3	18	41	8.8	2.7	1.6	.37	.20
8	.05	1.7	1.1	41	4.0	18	32	7.0	2.5	1.1	.38	.12
9	.04	1.9	1.6	25	3.8	16	26	6.4	2.4	1.3	.31	.16
10	.08	2.2	3.0	15	3.6	17	50	6.8	2.3	1.4	.70	.20
11	.05	2.2	1.0	11	3.4	29	80	6.9	2.3	1.2	1.0	.20
12	.02	16	2.5	8.2	3.2	19	50	6.1	2.3	1.2	.37	.19
13	.07	55	1.3	5.5	3.1	16	34	6.1	2.3	1.1	.32	.20
14	.04	12	1.4	4.6	25	18	44	6.6	3.1	1.1	.32	.22
15	.02	2.0	1.3	2.9	450	16	36	6.7	2.8	1.1	.32	.28
16	0	4.2	1.1	2.2	300	28	30	6.3	2.0	.77	.34	.18
17	0	12	.80	2.0	120	27	25	6.1	2.0	.63	.35	.16
18	.01	4.5	2.7	2.3	64	26	22	6.0	2.0	.63	.34	.18
19	.02	1.8	16	3.3	49	22	20	5.5	2.0	.86	.32	.16
20	.04	1.3	139	40	38	21	18	5.2	1.9	.59	.34	.12
21	.05	3.0	71	35	33	21	17	5.0	1.8	.62	.35	.14
22	.05	14	42	22	28	20	15	4.9	2.0	.59	.32	.12
23	.06	7.0	32	13	24	19	14	3.9	2.0	.59	.29	.25
24	.07	3.5	26	9.0	22	19	13	3.9	1.8	.87	.28	.46
25	.07	6.0	22	7.0	20	18	13	3.4	1.7	.81	.28	.90
26	.12	25	25	15	18	19	12	3.2	1.5	.63	.32	.25
27	.19	9.5	46	8.0	16	16	12	2.8	1.2	.50	.32	.20
28	30	4.0	27	25	16	25	11	2.5	1.4	.48	.32	.20
29	16	2.8	203	17	---	102	11	2.5	2.6	.48	.32	.20
30	4.3	2.0	67	13	---	87	10	2.9	1.7	.48	.30	.21
31	3.4	---	34	10	---	464	---	2.9	---	.48	.22	---
TOTAL	58.08	207.9	776.60	1550.0	1285.9	1249	1269	185.0	67.2	30.31	12.75	6.64
MEAN	1.87	6.93	25.1	50.0	45.9	40.3	42.3	5.97	2.24	.98	.41	.22
MAX	30	55	203	558	450	464	202	10	3.1	2.0	1.0	.90
MIN	0	1.3	.80	2.0	3.1	16	10	2.5	1.2	.48	.22	.12
AC-FT	115	412	1540	3070	2550	2480	2520	367	133	60	25	13
CAL YR 1981	TOTAL	1536.86	MEAN	4.21	MAX 203	MIN 0	AC-FT	3050				
WTR YR 1982	TOTAL	6698.38	MEAN	18.4	MAX 558	MIN 0	AC-FT	13290				

SAN LORENZO CREEK BASIN

11180825 SAN LORENZO CREEK ABOVE DON CASTRO RESERVOIR NEAR CASTRO VALLEY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1980 to current year (storm season only).

WATER TEMPERATURES: December 1980 to current year.

SEDIMENT RECORDS: December 1980 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: December 1980 to current year.

SEDIMENT RECORDS: December 1980 to current year.

REMARKS.--Sediment discharge values were estimated for those days that have no daily concentration values.

EXTREMES FOR PERIOD OF RECORD.--

SEDIMENT CONCENTRATIONS (storm season only): Maximum daily mean, 10,000 mg/L Jan. 4, 1982; minimum daily mean, 2 mg/L Jan. 2, 3, 5, Mar. 3, 4, 1981.

SEDIMENT DISCHARGE (storm season only): Maximum daily, 19,800 ton (18,000 metric tons) Jan. 4, 1982; minimum daily, 0 ton (0 metric ton) several days in each year.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS (storm season only): Maximum daily mean, 10,000 mg/L Jan. 4; minimum daily mean, 4 mg/L Oct. 2.

SEDIMENT DISCHARGE (storm season only): Maximum daily, 19,800 tons (18,000 metric tons) Jan. 4; minimum daily, 0 ton (0 metric ton) several days.

TEMPERATURE (DEG. C) OF WATER, OCTOBER 1981 TO APRIL 1982

ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	13.5	8.0	10.0	---	13.0	10.5					
2	---	14.0	---	9.0	---	---	11.0					
3	---	13.0	---	9.0	---	11.0	11.5					
4	16.5	---	---	10.0	9.0	13.0	---					
5	17.0	---	10.5	---	8.0	---	10.5					
6	15.5	14.5	9.5	9.0	9.5	13.0	---					
7	16.0	---	---	---	10.0	---	---					
8	17.0	---	10.5	---	10.0	---	---					
9	17.0	14.0	12.0	---	8.0	---	---					
10	---	---	---	---	10.0	14.0	---					
11	---	---	8.0	---	9.0	14.0	---					
12	---	15.0	9.5	10.0	9.5	---	---					
13	14.5	15.0	7.0	---	---	---	---					
14	---	14.5	14.0	9.0	---	12.0	---					
15	13.0	15.0	12.5	---	---	---	---					
16	---	15.0	10.0	8.5	---	---	---					
17	---	14.5	9.0	8.0	13.5	---	---					
18	14.0	---	10.5	---	12.5	10.0	---					
19	---	---	14.0	---	---	---	---					
20	---	13.5	---	8.5	---	---	---					
21	14.0	14.0	12.5	7.0	---	---	---					
22	---	14.5	---	---	12.5	12.0	---					
23	---	---	10.0	9.5	11.5	---	---					
24	13.0	14.0	---	---	---	---	---					
25	---	12.5	11.0	10.0	10.5	---	---					
26	---	11.0	12.0	---	10.5	---	---					
27	14.0	10.0	---	---	12.5	11.5	---					
28	---	10.0	9.5	---	---	13.0	---					
29	13.0	10.0	11.0	---	---	9.0	---					
30	12.0	10.0	12.5	---	---	11.0	---					
31	13.0	---	11.5	---	---	9.0	---					
MONTH	---	---	---	---	---	---	---					

11180825 SAN LORENZO CREEK ABOVE DON CASTRO RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), OCTOBER 1981 TO APRIL 1982

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	0	0	0	2.2	32	.19	1.5	36	.15
2	.01	4	0	2.3	46	.33	1.4	36	.14
3	.44	35	.06	1.9	43	.22	1.3	---	1.3
4	.04	6	0	2.3	34	.21	1.2	---	1.2
5	.02	4	0	2.0	27	.15	1.2	369	1.2
6	.02	4	0	2.1	25	.14	1.1	198	.59
7	2.8	375	6.9	1.5	20	.08	1.1	142	.42
8	.05	42	.01	1.7	19	.09	1.1	85	.25
9	.04	12	0	1.9	17	.09	1.6	101	.44
10	.08	25	.01	2.2	20	.12	3.0	---	1.9
11	.05	15	0	2.2	20	.12	1.0	140	.38
12	.02	11	0	16	447	38	2.5	---	1.4
13	.07	45	.01	55	1940	529	1.3	24	.08
14	.04	37	0	12	510	25	1.4	---	.40
15	.02	27	0	2.0	130	.70	1.3	78	.27
16	0	0	0	4.2	188	8.5	1.1	92	.27
17	0	0	0	12	426	25	.80	155	.33
18	.01	22	0	4.5	227	2.8	2.7	234	2.2
19	.02	26	0	1.8	139	.68	16	792	175
20	.04	22	0	1.3	69	.24	139	4370	1940
21	.05	12	0	3.0	---	1.9	71	547	117
22	.05	15	0	14	---	40	42	75	8.5
23	.06	18	0	7.0	---	10	32	36	3.1
24	.07	22	0	3.5	---	2.5	26	24	1.7
25	.07	21	0	6.0	47	.76	22	19	1.1
26	.12	33	.01	25	---	125	25	108	11
27	.19	57	.03	9.5	220	5.6	46	314	45
28	30	1720	251	4.0	---	3.3	27	61	4.4
29	16	858	53	2.8	29	.22	203	5480	5470
30	4.3	70	.90	2.0	32	.17	67	1110	261
31	3.4	34	.35	---	---	---	34	393	40
TOTAL	58.08	---	312.28	207.9	---	821.11	776.60	---	8090.72

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	32	617	82	8.4	35	.79	20	---	15
2	34	393	43	7.2	32	.62	35	---	60
3	31	656	154	6.4	30	.52	26	116	8.1
4	558	10000	19800	5.6	28	.42	24	78	5.1
5	409	6720	11300	5.2	26	.37	22	51	3.0
6	94	1040	281	4.7	17	.22	21	34	1.9
7	55	430	64	4.3	18	.21	18	29	1.4
8	41	374	43	4.0	17	.18	18	27	1.3
9	25	280	19	3.8	13	.13	16	25	1.1
10	15	207	8.4	3.6	9	.09	17	40	2.1
11	11	173	5.1	3.4	12	.11	29	484	39
12	8.2	179	4.9	3.2	13	.11	19	200	10
13	5.5	167	2.5	3.1	33	.28	16	77	3.3
14	4.6	112	1.4	25	---	69	18	116	5.6
15	2.9	83	.65	450	---	12700	16	69	3.0
16	2.2	57	.34	300	---	4800	28	491	42
17	2.0	45	.24	120	---	830	27	544	40
18	2.3	52	.43	64	386	67	26	465	34
19	3.3	134	1.4	49	201	27	22	239	14
20	40	---	180	38	158	16	21	150	8.5
21	35	130	12	33	124	11	21	93	5.3
22	22	90	5.3	28	91	6.9	20	54	2.9
23	13	54	1.9	24	69	4.5	19	41	2.1
24	9.0	50	1.2	22	47	2.8	19	38	1.9
25	7.0	45	.85	20	---	2.6	18	34	1.7
26	15	---	23	18	49	2.4	19	29	1.5
27	8.0	---	5.4	16	54	2.3	16	22	.95
28	25	---	69	16	---	7.0	25	434	32
29	17	---	30	---	---	---	102	2420	1080
30	13	---	17	---	---	---	87	1370	385
31	10	---	9.0	---	---	---	464	7040	9710
TOTAL	1550.0	---	32166.01	1285.9	---	18552.55	1249	---	11521.75

SAN LORENZO CREEK BASIN

11180825 SAN LORENZO CREEK ABOVE DON CASTRO RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), OCTOBER 1981 TO APRIL 1982

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	202	2350	1350	10			2.7		
2	113	590	180	9.7			2.9		
3	110	882	286	9.4			2.8		
4	89	250	60	9.3			2.7		
5	67	148	27	9.2			2.9		
6	52	---	14	9.0			2.9		
7	41	---	8.0	8.8			2.7		
8	32	---	4.4	7.0			2.5		
9	26	---	2.8	6.4			2.4		
10	50	---	44	6.8			2.3		
11	80	---	135	6.9			2.3		
12	50	---	28	6.1			2.3		
13	34	---	5.1	6.1			2.3		
14	44	---	32	6.6			3.1		
15	36	---	5.8	6.7			2.8		
16	30	---	3.8	6.3			2.0		
17	25	---	2.5	6.1			2.0		
18	22	---	1.9	6.0			2.0		
19	20	---	1.6	5.5			2.0		
20	18	---	1.3	5.2			1.9		
21	17	---	1.1	5.0			1.8		
22	15	---	.88	4.9			2.0		
23	14	---	.77	3.9			2.0		
24	13	---	.67	3.9			1.8		
25	13	---	.67	3.4			1.7		
26	12	---	.58	3.2			1.5		
27	12	---	.58	2.8			1.2		
28	11	---	.49	2.5			1.4		
29	11	---	.49	2.5			2.6		
30	10	---	.41	2.9			1.7		
31	---	---	---	2.9			---		
TOTAL	1269	---	2199.84	185.0		0	67.2		0
PERIOD	6998.38		73664						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, OCTOBER 1981 TO APRIL 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
NOV											
13...	1230	69	15.0	6050	1130	--	55	69	85	95	--
13...	1630	169	16.0	4120	1880	--	48	59	70	79	--
17...	1520	2.0	14.5	302	1.6	68	78	78	78	78	--
DEC											
16...	1325	1.2	10.0	98	.32	--	--	--	--	--	--
29...	1500	588	--	11300	17900	--	33	40	52	65	75
JAN											
04...	1100	291	10.0	10500	8250	--	25	31	41	52	65
04...	1500	898	10.0	14800	35900	--	29	38	49	61	71
04...	1700	952	--	12500	32100	--	31	35	48	61	72
05...	1600	207	--	3220	1800	--	27	35	44	54	65
FEB											
17...	1530	--	13.5	806	--	--	34	44	54	64	72
MAR											
01...	1100	--	13.0	1780	--	--	56	69	80	89	95
31...	1330	677	9.0	7120	13000	--	31	38	48	58	66
APR											
03...	1000	123	11.5	1170	389	--	42	53	64	76	83
05...	1255	64	10.5	148	26	--	--	--	--	--	--

11180825 SAN LORENZO CREEK ABOVE DON CASTRO RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, OCTOBER 1981 TO APRIL 1982

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
NOV										
13...	99	--	100	--	--	--	--	--	--	--
13...	86	--	94	--	97	--	98	--	98	99
17...	78	--	79	--	80	--	81	--	83	89
DEC										
16...	96	--	98	--	100	--	--	--	--	--
29...	--	90	--	98	--	100	--	--	--	--
JAN										
04...	--	86	--	97	--	100	--	--	--	--
04...	--	88	--	96	--	99	--	100	--	--
04...	--	88	--	97	--	100	--	--	--	--
05...	--	87	--	97	--	100	--	--	--	--
FEB										
17...	--	83	--	95	--	100	--	--	--	--
MAR										
01...	--	99	--	100	--	--	--	--	--	--
31...	--	81	--	94	--	99	--	100	--	--
APR										
03...	--	89	--	97	--	100	--	--	--	--
05...	90	--	94	--	99	--	100	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
OCT								
27...	1156	--	1	.15	1	1	4	18
27...	1158	--	1	.15	1	2	5	14
27...	1200	--	1	.15	1	3	6	12
27...	1202	--	1	.15	1	2	5	13
27...	1204	--	1	.15	2	3	10	22
27...	1206	--	1	.15	25	40	63	80
JAN								
08...	1405	--	1	44	45	81	95	97
08...	1407	--	1	44	37	83	96	98
08...	1409	--	1	44	3	8	29	37
08...	1411	--	1	44	--	--	2	6
08...	1415	--	1	44	--	--	--	1
08...	1417	--	1	44	--	--	1	2
08...	1419	--	1	44	--	--	--	1
08...	1421	--	1	44	--	--	3	11
08...	1423	--	1	44	5	21	68	98
FEB								
18...	1614	12.5	1	64	40	84	99	100
18...	1616	12.5	1	64	6	32	97	100
18...	1618	12.5	1	64	30	67	97	99
18...	1620	12.5	1	64	1	2	8	13
18...	1622	12.5	1	64	--	--	3	9
18...	1624	12.5	1	64	16	57	96	100
18...	1626	12.5	1	64	11	32	84	99
24...	1556	--	1	22	11	33	83	98
24...	1558	--	1	22	--	--	--	3
24...	1600	--	1	22	--	--	1	3
24...	1602	--	1	22	--	--	--	1
24...	1604	--	1	22	--	--	--	1
24...	1606	--	1	22	--	--	--	3
MAY								
12...	1156	--	1	6.1	8	35	92	99
12...	1158	--	1	6.1	1	3	7	13
12...	1200	--	1	6.1	--	1	3	12
12...	1202	--	1	6.1	--	1	2	6
12...	1204	--	1	6.1	--	1	3	10
12...	1206	--	1	6.1	6	24	71	97

SAN LORENZO CREEK BASIN

11180825 SAN LORENZO CREEK ABOVE DON CASTRO RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
OCT							
27...	27	35	45	58	79	92	100
27...	23	31	39	54	79	96	100
27...	19	24	31	42	62	86	100
27...	18	25	34	48	68	90	100
27...	30	37	47	60	81	94	100
27...	90	98	100	--	--	--	--
JAN							
08...	100	--	--	--	--	--	--
08...	100	--	--	--	--	--	--
08...	48	62	76	88	100	--	--
08...	8	11	16	27	51	100	--
08...	2	2	4	7	14	53	100
08...	5	9	15	24	36	78	100
08...	3	5	7	13	26	62	100
08...	17	24	31	41	54	66	100
08...	100	--	--	--	--	--	--
FEB							
18...	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--
18...	100	--	--	--	--	--	--
18...	17	23	31	48	80	100	--
18...	15	19	23	30	37	72	100
18...	--	--	--	--	--	--	--
18...	100	--	--	--	--	--	--
24...	100	--	--	--	--	--	--
24...	7	9	11	17	42	100	--
24...	6	8	13	19	38	74	100
24...	1	2	3	9	24	100	--
24...	2	3	6	16	31	59	100
24...	4	7	11	20	48	82	100
MAY							
12...	100	--	--	--	--	--	--
12...	17	23	34	50	74	100	--
12...	19	23	30	40	52	80	100
12...	12	18	27	39	60	79	100
12...	14	18	25	40	59	100	--
12...	99	100	--	--	--	--	--

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR, NEAR CASTRO VALLEY, CA

LOCATION.--Lat 37°42'55", long 122°03'12", in San Lorenzo (Castro) Grant, Alameda County, Hydrologic Unit 18050004, on left bank 0.9 mi (1.4 km) upstream from Cull Creek Dam and 1.1 mi (1.8 km) northeast of Castro Valley Post Office.

DRAINAGE AREA.--5.79 mi² (15.00 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to current year.

GAGE.--Water stage recorder. Altitude of gage is 450 ft (137 m), from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,690 ft³/s (47.9 m³/s) Jan. 5, 1982, gage height, 8.71 ft (2.655 m); no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,690 ft³/s (47.9 m³/s) Jan. 5, gage height, 8.71 ft (2.655 m), no other peak above base of 200 ft³/s (5.66 m³/s); minimum, no flow for several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	1.1	18	8.7	11	50	3.2	1.0	.49	.08	0
2	0	0	.85	19	7.6	27	34	3.0	1.0	.50	.08	0
3	0	0	.74	15	7.1	7.7	49	2.8	.98	.44	.09	0
4	0	0	.66	357	7.1	6.3	29	2.7	.95	.43	.10	0
5	0	0	1.4	366	7.1	5.7	25	2.6	.93	.41	.05	0
6	0	0	.79	41	6.8	5.1	24	2.5	.90	.39	.06	0
7	0	0	.61	22	6.7	4.9	22	2.4	.97	.29	.05	0
8	0	0	.59	17	6.5	4.5	19	2.3	.95	.29	.04	0
9	0	0	.61	13	6.1	4.2	15	2.1	.93	.33	.02	0
10	0	0	.65	10	6.0	4.8	15	2.0	.79	.35	.06	0
11	0	0	.46	8.1	8.8	8.8	51	2.0	.79	.38	.08	0
12	0	.01	.48	6.9	9.6	6.0	25	1.9	.89	.33	.05	0
13	0	11	.59	6.1	13	5.2	17	1.8	.89	.28	.03	0
14	0	1.8	.42	5.5	115	6.9	20	1.7	.87	.22	.01	0
15	0	.50	.54	5.0	445	5.3	13	1.7	.79	.20	.01	0
16	0	.63	.62	4.7	261	13	12	1.6	.75	.19	.01	0
17	0	2.0	.56	4.1	44	17	11	1.6	.59	.21	.01	0
18	0	.14	.55	4.8	24	12	9.6	1.5	.64	.18	.01	0
19	0	.13	31	7.1	19	8.7	8.6	1.5	.69	.21	.05	0
20	0	.13	84	28	16	7.5	7.2	1.4	.69	.17	.13	0
21	0	3.1	17	22	14	7.1	6.3	1.4	.65	.18	.08	0
22	0	2.3	7.3	12	13	6.4	5.8	1.4	.57	.19	.04	0
23	0	1.4	5.1	11	12	6.0	6.1	1.3	.53	.13	.01	0
24	0	6.1	4.1	10	11	5.3	5.0	1.3	.50	.13	0	0
25	0	1.0	3.7	9.4	10	5.0	4.7	1.3	.49	.11	0	.01
26	0	7.6	4.1	16	9.5	6.4	4.4	1.2	.46	.13	.02	.03
27	0	5.4	8.2	9.8	9.0	5.3	3.9	1.2	.41	.10	.01	.01
28	.03	3.5	3.9	21	8.7	11	3.9	1.2	.35	.10	0	0
29	0	1.6	81	11	---	41	3.6	1.1	.62	.10	0	0
30	0	1.5	27	9.9	---	44	3.3	1.1	.45	.09	0	0
31	0	---	21	8.9	---	279	---	1.1	---	.08	0	---
TOTAL	.03	49.84	309.62	1099.3	1112.3	588.1	503.4	55.9	22.02	7.63	1.18	.05
MEAN	.001	1.66	9.99	35.5	39.7	19.0	16.8	1.80	.73	.25	.038	.002
MAX	.03	11	.84	366	445	279	51	3.2	1.0	.50	.13	.03
MIN	0	0	.42	4.1	6.0	4.2	3.3	1.1	.35	.08	0	0
AC-FT	.06	.99	.614	2180	2210	1170	998	111	.44	.15	2.3	.10
a	2.16	7.78	7.57	8.90	6.29	7.21	3.48	0	0.06	0.04	0	0.73
CAL YR 1981 TOTAL	592.81	MEAN	1.62	MAX	84	MIN	0	AC-FT	1180			
WTR YR 1982 TOTAL	3749.37	MEAN	10.3	MAX	445	MIN	0	AC-FT	7440			

a Precipitation, in inches.

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR NEAR CASTRO VALLEY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year (storm season only).

WATER TEMPERATURES: Water years 1979 to current year.

SEDIMENT RECORDS: Water years 1979 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1978 to current year.

SEDIMENT RECORDS: October 1978 to current year.

REMARKS.--Zero bedload discharge observed at flows less than 18.0 ft³/s (0.51 m³/s).

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 17,200 mg/L Feb. 19, 1980; minimum daily mean, no flow many days.

SEDIMENT DISCHARGE: Maximum daily, 23,500 tons (21,300 metric tons) Feb. 15, 1982; minimum daily, 0 ton (0 metric ton) many days.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS (storm season only): Maximum daily mean, 16,100 mg/L Feb. 15; minimum daily mean, no flow several days.

SEDIMENT DISCHARGE (storm season only): Maximum daily, 23,500 tons (21,300 metric tons) Feb. 28; minimum daily, 0 ton (0 metric ton) many days.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	---	10.0	---	12.0	9.0					
2		---	8.5	8.5	---	11.0	---					
3		---	---	---	---	10.0	---					
4		---	---	---	7.0	---	---					
5		---	9.5	11.5	---	---	11.5					
6		---	8.5	---	9.0	13.0	---					
7		---	---	8.0	---	---	---					
8		---	---	6.0	---	---	---					
9		---	11.5	---	---	---	---					
10		---	---	---	---	13.5	---					
11		---	7.0	---	---	13.5	---					
12		14.5	8.5	---	---	---	---					
13		15.0	---	9.0	---	---	---					
14		14.5	---	---	---	---	---					
15		15.0	11.5	---	---	---	---					
16		---	8.5	8.0	---	---	---					
17		13.5	8.0	---	---	---	---					
18		11.0	9.5	---	10.0	10.5	---					
19		---	13.5	---	---	---	---					
20		12.5	---	---	---	---	---					
21		14.0	12.5	---	---	---	---					
22		14.0	---	---	10.5	11.5	---					
23		---	9.5	9.5	---	---	---					
24		17.0	---	---	---	---	---					
25		11.0	---	---	11.5	---	---					
26		10.0	13.0	11.0	11.0	---	---					
27		9.5	---	---	---	11.5	---					
28		9.5	8.5	---	---	13.5	---					
29		9.5	11.5	---	---	---	---					
30		---	---	---	---	---	---					
31		---	12.0	---	---	8.5	---					
MONTH		---	---	---	---	---	---					

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	0			0	0	0	1.1	15	.04
2	0			0	0	0	.85	10	.02
3	0			0	0	0	.74	7	.01
4	0			0	0	0	.66	7	.01
5	0			0	0	0	1.4	18	.09
6	0			0	0	0	.79	21	.04
7	0			0	0	0	.61	17	.03
8	0			0	0	0	.59	15	.02
9	0			0	0	0	.61	13	.02
10	0			0	0	0	.65	13	.02
11	0			0	0	0	.46	13	.02
12	0			.01	49	0	.48	24	.03
13	0			11	1260	122	.59	17	.03
14	0			1.8	541	5.8	.42	11	.01
15	0			.50	54	.07	.54	15	.02
16	0			.63	34	.06	.62	11	.02
17	0			2.0	459	3.6	.56	11	.02
18	0			.14	50	.02	.55	9	.01
19	0			.13	18	.01	31	3120	1300
20	0			.13	17	.01	84	6980	2500
21	0			3.1	232	6.2	17	390	18
22	0			2.3	210	1.3	7.3	130	2.6
23	0			1.4	125	2.1	5.1	52	.72
24	0			6.1	406	11	4.1	25	.28
25	0			1.0	48	.13	3.7	18	.18
26	0			7.6	576	18	4.1	128	2.9
27	0			5.4	576	8.8	8.2	334	9.6
28	.03			3.5	198	1.9	3.9	40	.42
29	0			1.6	21	.09	81	8470	3640
30	0			1.5	17	.07	27	3600	262
31	0			---	---	---	21	321	21
TOTAL	.03	0	0	49.84	---	181.16	309.62	---	7758.16

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	18	392	25	8.7	121	2.8	11	2500	74
2	19	530	27	7.6	119	2.4	27	8000	583
3	15	388	18	7.1	118	2.3	7.7	710	15
4	357	10200	18700	7.1	114	2.2	6.3	355	6.0
5	366	12300	20400	7.1	92	1.7	5.7	281	4.3
6	41	3600	399	6.8	66	1.2	5.1	225	3.1
7	22	1400	83	6.7	53	.96	4.9	180	2.9
8	17	682	31	6.5	47	.82	4.5	150	2.7
9	13	435	15	6.1	44	.72	4.2	138	2.5
10	10	311	8.4	6.0	42	.68	4.8	276	3.6
11	8.1	210	4.6	8.8	39	.93	8.8	755	20
12	6.9	166	3.1	9.6	37	.96	6.0	350	5.7
13	6.1	148	2.4	13	354	16	5.2	225	3.2
14	5.5	130	1.9	115	4070	3850	6.9	556	12
15	5.0	110	1.5	445	16100	23500	5.3	270	3.9
16	4.7	99	1.3	261	11000	10400	13	1800	69
17	4.1	94	1.0	44	3000	356	17	1900	103
18	4.8	128	2.3	24	1340	87	12	1620	57
19	7.1	221	4.7	19	880	45	8.7	1280	30
20	28	5600	768	16	660	29	7.5	590	12
21	22	3560	261	14	490	19	7.1	260	5.0
22	12	750	24	13	391	14	6.4	220	3.8
23	11	178	5.3	12	328	11	6.0	180	2.9
24	10	62	1.7	11	292	8.7	5.3	170	2.4
25	9.4	31	.79	10	265	7.2	5.0	150	2.0
26	16	821	46	9.5	243	6.2	6.4	120	2.1
27	9.8	230	6.1	9.0	222	5.4	5.3	95	1.4
28	21	679	48	8.7	203	4.8	11	1380	41
29	11	150	4.5	---	---	---	41	7840	868
30	9.9	133	3.6	---	---	---	44	7540	896
31	8.9	124	3.0	---	---	---	279	13400	10100
TOTAL	1099.3	---	40901.19	1112.3	---	38376.97	588.1	---	12937.5

SAN LORENZO CREEK BASIN

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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	50	3310	451	3.2			1.0		
2	34	1790	164	3.0			1.0		
3	49	2220	310	2.8			.98		
4	29	1220	96	2.7			.95		
5	25	880	59	2.6			.93		
6	24	790	51	2.5			.90		
7	22	730	43	2.4			.97		
8	19	660	34	2.3			.95		
9	15	600	24	2.1			.93		
10	15	595	25	2.0			.79		
11	51	3930	882	2.0			.79		
12	25	2410	200	1.9			.89		
13	17	360	17	1.8			.89		
14	20	2560	190	1.7			.87		
15	13	1250	44	1.7			.79		
16	12	92	3.0	1.6			.75		
17	11	36	1.1	1.6			.59		
18	9.6	26	.67	1.5			.64		
19	8.6	23	.53	1.5			.69		
20	7.2	21	.41	1.4			.69		
21	6.3	19	.32	1.4			.65		
22	5.8	17	.27	1.4			.57		
23	6.1	16	.26	1.3			.53		
24	5.0	14	.19	1.3			.50		
25	4.7	13	.16	1.3			.49		
26	4.4	12	.14	1.2			.46		
27	3.9	11	.12	1.2			.41		
28	3.9	9	.09	1.2			.35		
29	3.6	8	.08	1.1			.62		
30	3.3	7	.06	1.1			.45		
31	---	---	---	1.1			---		
TOTAL	503.4	---	2597.40	55.9	0	0	22.02	0	0

Ann. Qs = 10275.2.38

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
DEC							
29...	0945	13	10.5	4850	170	36	42
29...	1015	12	10.5	3570	116	--	--
29...	1055	10	10.5	2540	69	--	--
29...	1140	10	10.5	1740	47	--	--
29...	1205	11	10.5	2380	71	--	--
29...	1218	14	10.5	4230	160	--	--
29...	1230	22	10.5	7940	472	--	--
29...	1255	26	10.5	13900	980	32	38
29...	1325	17	11.0	10700	491	--	--
29...	1355	14	11.0	6290	238	--	--
29...	1425	32	11.0	11200	962	25	28
29...	1445	37	11.0	26000	2600	--	--
29...	1510	20	11.0	20100	1090	--	--
29...	1530	16	11.0	11500	497	--	--
29...	1600	18	11.0	7860	382	--	--
JAN							
05...	0830	11	10.5	10900	324	--	--
05...	0900	11	10.5	8090	240	--	--
05...	0930	10	10.5	8050	217	--	--
05...	1550	6.9	11.0	2960	55	--	--
20...	1630	4.2	--	4680	53	--	--
FEB							
16...	1300	6.5	--	2740	48	--	--
17...	1420	3.1	--	1510	13	--	--
MAR							
01...	1300	3.8	--	4850	50	--	--
02...	0815	5.4	10.5	6790	99	--	--
18...	1115	.78	--	2360	5.0	--	--
31...	1015	32	--	7670	663	--	--
31...	1030	38	9.0	8500	863	32	40
31...	1045	38	--	9230	947	--	--
31...	1100	35	--	8000	756	--	--
31...	1130	27	--	6630	483	--	--
31...	1200	30	9.0	7670	627	29	34
31...	1245	23	9.0	6500	404	--	--
APR							
01...	0750	4.9	--	1150	15	--	--
01...	0845	4.9	--	1080	14	--	--
02...	1415	3.2	--	4310	37	--	--
		SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM
DEC							
29...	51	62	75	93	99	100	--
29...	--	--	66	--	--	--	--
29...	--	--	76	--	--	--	--
29...	--	--	69	--	--	--	--
29...	--	--	62	--	--	--	--
29...	--	--	56	--	--	--	--
29...	--	--	53	--	--	--	--
29...	50	64	76	91	98	100	--
29...	--	--	68	--	--	--	--
29...	--	--	66	--	--	--	--
29...	36	45	59	80	96	99	100
29...	--	--	52	--	--	--	--
29...	--	--	64	--	--	--	--
29...	--	--	62	--	--	--	--
29...	--	--	53	--	--	--	--
JAN							
05...	--	--	79	--	--	--	--
05...	--	--	76	--	--	--	--
05...	--	--	80	--	--	--	--
05...	--	--	84	--	--	--	--
20...	--	--	72	--	--	--	--
FEB							
16...	--	--	85	--	--	--	--
17...	--	--	89	--	--	--	--
MAR							
01...	--	--	93	--	--	--	--
02...	--	--	86	--	--	--	--
18...	--	--	99	--	--	--	--
31...	--	--	65	--	--	--	--
31...	50	60	70	80	90	96	99
31...	--	--	63	--	--	--	--
31...	--	--	65	--	--	--	--
31...	--	--	62	--	--	--	--
31...	45	54	61	69	81	92	99
31...	--	--	61	--	--	--	--
APR							
01...	--	--	62	--	--	--	--
01...	--	--	68	--	--	--	--
02...	--	--	99	--	--	--	--

SAN LORENZO CREEK BASIN

11181000 SAN LORENZO CREEK AT HAYWARD, CA

LOCATION.--Lat 37°41'11", long 122°03'44", in San Lorenzo Grant, Alameda County, Hydrologic Unit 18050004, 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 mi² (97.1 km²).

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) National Geodetic Vertical Datum of 1929. January to September 1940, non-recording gage on bridge at present site and datum.

REMARKS.--Records fair except those below 1.0 ft³/s (0.028 m³/s) which are poor. Flow partly regulated since October 1962 by Cull Creek Reservoir, capacity, 310 acre-ft (382,000 m³) and since January 1965 by Don Castro Reservoir, 0.9 mi (1.4 km) upstream, capacity, 380 acre-ft (469,000 m³). A few very small diversions above station for irrigation.

AVERAGE DISCHARGE.--37 years, 15.7 ft³/s (0.445 m³/s), 11,370 acre-ft/yr (14.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,740 ft³/s (219 m³/s) Jan. 5, 1982, gage height, 20.15 ft (6.142 m); maximum gage height, 20.82 ft (6.346 m), from floodmarks, Dec. 22, 1955; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 550 ft³/s (15.6 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 20	0045	1,250 35.4	9.15 2.789	Feb. 16	0130	4,530 128	15.40 4.694
Dec. 29	1645	2,060 58.3	10.97 3.344	Mar. 31	0930	2,680 75.9	12.21 3.722
Jan. 5	0045	*7,740 219	20.15 6.142	Apr. 11	0130	611 17.3	7.41 2.259

Minimum, no flow Sept. 27-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.24	.27	2.2	83	48	75	482	21	8.9	8.2	.66	.47
2	.28	.25	1.9	93	45	126	230	21	8.8	23	.70	.41
3	.59	.31	1.8	71	44	50	299	20	8.6	12	.83	.38
4	.13	.32	1.8	2320	40	41	174	19	8.2	12	.86	.39
5	.11	.30	1.6	1950	38	37	135	19	7.9	10	.81	.41
6	.20	.31	1.6	230	36	35	115	18	8.2	9.9	3.6	.36
7	1.6	.89	1.7	151	36	33	91	18	7.6	9.2	10	.37
8	.13	.54	1.6	129	37	33	79	17	7.2	9.1	9.5	.35
9	.10	.40	2.3	116	34	30	68	16	9.9	7.3	6.2	2.0
10	.21	.41	2.1	103	36	35	165	22	14	3.4	3.4	4.3
11	.16	.43	1.8	93	46	76	232	16	14	3.4	2.7	5.4
12	.11	8.9	3.8	82	45	35	113	15	14	4.0	.57	5.1
13	.12	76	3.6	72	51	30	84	15	13	1.2	.45	4.9
14	.32	9.9	2.7	64	236	43	120	16	14	1.1	.43	5.0
15	.12	1.8	5.4	58	1410	31	77	15	19	2.3	.45	3.8
16	.10	3.8	3.0	54	1230	90	66	15	20	20	.44	.84
17	.09	16	2.4	50	221	85	57	15	20	6.8	.39	.28
18	.10	2.4	6.8	47	128	70	51	14	12	6.3	.39	.27
19	.11	1.6	67	63	102	51	46	14	2.8	3.7	.49	.22
20	.11	1.2	458	150	97	42	41	13	2.8	.87	.65	.20
21	.12	10	78	115	92	39	37	13	2.8	.81	.50	.18
22	.13	10	32	59	83	35	34	12	3.2	.75	.40	.17
23	.12	5.6	23	53	77	31	32	11	3.0	.66	.38	.46
24	.11	12	17	49	74	29	30	10	2.6	.70	.40	.07
25	.28	3.1	14	47	69	28	29	9.8	2.5	.70	.44	.74
26	.13	20	16	67	65	38	27	10	2.5	.75	.59	.01
27	1.8	12	39	48	63	26	26	7.3	2.1	.77	.55	0
28	17	11	18	102	61	61	25	8.9	2.1	.76	.49	0
29	6.4	3.8	589	59	---	319	23	9.8	4.6	.68	.52	0
30	.60	2.6	148	53	---	212	22	9.4	3.2	.71	.52	0
31	.32	---	77	51	---	1680	---	9.0	---	.70	.48	---
TOTAL	31.94	216.13	1624.1	6682	4544	3546	3010	449.2	249.5	161.76	48.79	37.08
MEAN	1.03	7.20	52.4	216	162	114	100	14.5	8.32	5.22	1.57	1.24
MAX	17	76	589	2320	1410	1680	482	22	20	23	10	5.4
MIN	.09	.25	1.6	47	34	26	22	7.3	2.1	.66	.38	0
AC-FT	63	429	3220	13250	9010	7030	5970	891	495	321	97	74
CAL YR 1981	TOTAL	3405.49	MEAN	9.33	MAX	589	MIN	.03	AC-FT	6750		
WTR YR 1982	TOTAL	20600.50	MEAN	56.4	MAX	2320	MIN	0	AC-FT	40860		

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, Hydrologic Unit 18050002, 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 mi² (20.18 km²).

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is 65.56 ft (19.983 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Minor storage in Lake Anza and Jewel Lake 5 mi (8 km) upstream. No diversion above station.

AVERAGE DISCHARGE.--7 years, 5.02 ft³/s (0.142 m³/s), 3,640 acre-ft/yr (4.49 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,050 ft³/s (58.1 m³/s) Jan. 4, 1982, gage height, 15.80 ft (4.816 m); no flow Aug. 31, Sept. 6, 7, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s (11.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 20	0015	751 21.3	6.86 2.091	Mar. 31	0745	810 22.9	7.15 2.179
Dec. 29	1445	452 12.8	5.46 1.664	Apr. 3	0045	519 14.7	5.82 1.774
Jan. 4	1430	*2,050 58.1	15.80 4.816	Apr. 10	2345	514 14.6	5.76 1.756
Feb. 15	2245	803 22.7	7.12 2.170				

Minimum daily, 0.08 ft³/s (0.002 m³/s) Sept. 3.

REVISIONS.--The maximum discharges for water years 1979 and 1980 have been revised to 900 ft³/s (25.5 m³/s) Feb. 22, 1979, gage height 7.61 ft (2.32 m), and 1,280 ft³/s (36.2 m³/s) Feb. 19, 1980, gage height, 9.53 ft (2.905 m), superseding figures published in reports for 1979 and 1980.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.34	.15	3.1	40	12	41	110	4.3	1.4	1.0	.52	.10
2	.39	.18	2.8	32	12	34	112	4.1	1.4	.98	.52	.09
3	.18	1.1	2.5	24	12	16	192	3.4	1.4	1.1	.50	.08
4	.23	.22	2.2	1010	11	11	47	3.7	1.5	1.0	.44	.11
5	.22	1.2	2.0	100	10	8.8	29	3.5	1.2	1.0	.44	.14
6	.25	.61	2.0	16	9.5	7.7	20	3.4	1.0	1.1	.43	.10
7	1.7	.27	1.7	11	9.6	7.1	14	3.4	1.2	.94	.36	.10
8	.13	.17	1.7	9.0	9.3	6.4	11	3.0	1.5	.88	.36	.12
9	.12	8.0	2.0	8.0	9.1	5.6	8.7	2.6	1.3	.86	.33	.12
10	.45	33	2.0	7.0	9.4	7.8	121	2.6	1.4	.68	.30	.10
11	.13	20	1.5	6.8	9.3	15	150	2.6	1.2	.73	.33	.20
12	.14	25	1.7	6.4	9.6	8.7	61	2.5	1.2	.70	.30	.18
13	.11	58	1.5	6.4	17	6.4	36	2.5	1.2	.67	.38	.14
14	.14	8.3	1.9	6.3	61	14	31	2.5	1.1	.61	.29	.14
15	.12	.51	2.0	6.2	343	8.8	23	2.3	1.0	.60	.33	.18
16	.15	2.5	1.7	6.2	161	24	18	2.2	.93	.44	.25	.24
17	.15	6.3	1.3	6.2	41	31	15	2.3	1.1	.36	.23	.23
18	.17	.58	5.1	6.0	25	17	13	2.4	1.2	.40	.22	.43
19	.18	.33	163	8.6	18	9.8	11	2.3	1.2	.47	.22	.24
20	.17	.41	303	34	14	6.9	7.9	2.1	1.2	.52	.29	.17
21	.18	18	42	19	12	5.4	6.6	2.0	1.3	.40	.25	.18
22	.17	19	20	9.6	9.8	4.6	6.0	1.9	1.2	.41	.20	.22
23	.18	3.3	13	7.9	8.2	4.0	5.4	1.8	1.1	.54	.16	.32
24	.18	9.1	9.7	8.0	7.3	3.7	5.2	1.7	1.1	.36	.15	.79
25	.21	1.8	8.1	7.3	6.4	4.0	5.0	1.4	1.1	.35	.20	1.4
26	.18	5.7	7.1	33	6.3	6.3	4.7	1.6	1.1	.50	.12	1.1
27	1.5	27	11	17	6.4	3.5	4.7	1.6	.95	.60	.12	.34
28	1.4	7.7	7.5	31	5.3	6.9	5.1	1.4	.67	.60	.12	.16
29	.54	4.8	150	16	---	48	4.9	1.4	1.2	.64	.24	.10
30	.22	3.6	51	13	---	66	4.3	1.4	.96	.72	.18	.09
31	.15	---	37	12	---	384	---	1.2	---	.60	.12	---
TOTAL	10.38	266.83	861.1	1523.9	864.5	823.4	1082.5	75.1	35.31	20.76	8.90	7.91
MEAN	.33	8.89	27.8	49.2	30.9	26.6	36.1	2.42	1.18	.67	.29	.26
MAX	1.7	58	303	1010	343	384	192	4.3	1.5	1.1	.52	1.4
MIN	.11	.15	1.3	6.0	5.3	3.5	4.3	1.2	.67	.35	.12	.08
AC-FT	21	529	1710	3020	1710	1630	2150	149	70	41	18	16
CAL YR 1981 TOTAL	1616.95			MEAN 4.43	MAX 303	MIN .09	AC-FT 3210					
WTR YR 1982 TOTAL	5580.59			MEAN 15.3	MAX 1010	MIN .08	AC-FT 11070					

11182030 RHEEM CREEK AT SAN PABLO, CA

LOCATION.--Lat 37°58'38", long 122°21'10", in San Pablo Grant, Contra Costa County, Hydrologic Unit 18050002, 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 mi² (3.86 km²).

PERIOD OF RECORD.--December 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 13.63 ft (4.154 m) Corps of Engineers datum. Prior to Aug. 13, 1965, at site 0.2 mi (0.3 km) upstream at datum 7.74 ft (2.359 m) higher.

REMARKS.--Records fair. Low flow affected by return flow from industrial waste, leakage, and infrequent releases from off-stream North Reservoir.

AVERAGE DISCHARGE.--21 years (water years 1962-82), 1.43 ft³/s (0.040 m³/s), 1,040 acre-ft/yr (1.28 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 477 ft³/s (13.5 m³/s) Dec. 20, 1969, gage height, 6.95 ft (2.118 m), from rating curve extended above 150 ft³/s (4.25 m³/s); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s (4.20 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Nov. 27	0045	243	6.88	5.47	1.667	Mar. 2	0330	163	4.62	4.62	1.408
Dec. 19	2200	175	4.96	4.75	1.448	Mar. 17	0930	213	6.03	5.15	1.570
Dec. 29	1200	166	4.70	4.66	1.420	Mar. 30	1130	161	4.56	4.60	1.402
Jan. 4	1200	*364	10.3	6.63	2.021	Apr. 2	0930	194	5.49	4.94	1.506
Jan. 26	0515	165	4.67	4.64	1.414	Apr. 10	2145	214	6.06	5.16	1.573
Feb. 15	2145	171	4.84	4.71	1.436						

Minimum, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.01	.41	3.6	.16	17	19	.17	.23	.18	.38	.02
2	.63	.01	.30	3.4	.11	19	71	.20	.41	.04	.32	.03
3	.15	0	.23	12	.12	.91	7.6	.18	.36	.04	.04	.07
4	.01	0	.11	232	.10	.53	2.0	.27	.28	.05	.03	.04
5	0	0	.06	26	.08	.41	3.0	.18	.24	.05	.02	.07
6	0	.01	.05	1.4	.08	.31	1.1	.21	.54	.04	.10	.07
7	5.1	.01	.04	.45	.09	.66	.75	.39	.42	.26	.04	.03
8	.02	0	.04	.25	.09	.35	.59	.39	.19	.56	.05	.02
9	.01	0	4.2	.23	.09	.26	.47	.44	.10	.29	.02	.01
10	2.2	0	.14	.18	.08	5.4	69	.41	.03	.09	.03	.05
11	.01	0	.05	.14	.08	2.3	23	.97	.13	.06	.10	.02
12	.06	36	3.2	.10	.08	.37	2.7	.30	.05	.08	.08	.03
13	.02	44	.12	.11	7.6	2.8	1.1	.43	.04	.04	.13	.02
14	0	.77	1.1	.09	15	2.5	7.8	.73	.04	.22	.03	.08
15	0	1.5	.23	.08	54	7.3	.74	1.1	.10	.07	.18	.01
16	0	11	.09	.08	8.3	5.9	.52	.86	.06	.04	.03	.18
17	.01	5.1	.05	.06	.64	17	.48	.58	.10	.04	.03	.07
18	0	.11	13	.10	.31	1.8	.40	.66	.12	.05	.08	.26
19	.02	.06	63	5.5	.23	.63	.33	.71	.08	.48	.06	.02
20	.01	.06	25	13	.19	.43	.23	.78	.05	.16	.16	.01
21	0	20	2.8	.62	.14	.36	.19	.67	.03	.09	.07	0
22	0	1.9	.78	.23	.10	.19	.25	.55	.14	.21	.07	0
23	0	5.4	2.4	.14	.09	.19	.19	.56	.08	.34	.04	.18
24	0	1.0	.43	.12	.09	.25	.23	.60	.09	.08	.02	1.8
25	0	.21	.38	.11	.09	3.2	.25	1.3	.08	.11	.05	1.3
26	0	5.1	.37	14	.17	.41	.18	.44	.18	.32	.03	.04
27	7.8	33	.66	.36	.15	4.3	.18	.30	.12	.51	.03	.01
28	9.0	2.0	.19	12	.09	10	.19	.66	.09	.50	.03	.01
29	.92	.66	49	.55	---	11	.14	.51	.67	.49	.04	0
30	.04	.62	4.2	.28	---	76	.18	.34	.09	.74	.02	0
31	.02	---	8.9	.22	---	39	---	.28	---	.25	.03	---
TOTAL	26.03	168.53	181.53	327.20	88.35	230.76	213.79	16.17	5.14	6.48	2.34	4.45
MEAN	.84	5.62	5.86	10.6	3.16	7.44	7.13	.52	.17	.21	.076	.15
MAX	9.0	44	63	232	54	76	71	1.3	.67	.74	.38	1.8
MIN	0	0	.04	.06	.08	.19	.14	.17	.03	.04	.02	0
AC-FT	52	334	360	649	175	458	424	32	10	13	4.6	8.8
CAL YR 1981	TOTAL	616.07		MEAN	1.69	MAX	63	MIN	0	AC-FT	1220	
WTR YR 1982	TOTAL	1270.97		MEAN	3.48	MAX	232	MIN	0	AC-FT	2520	

11182400 ARROYO DEL HAMBRE AT MARTINEZ, CA

LOCATION.--Lat 38°00'12", long 122°07'44", in Las Juntas Grant, Contra Costa County, Hydrologic Unit 18050001, on right bank 40 ft (12 m) upstream from D Street Bridge in Martinez.

DRAINAGE AREA.--15.1 mi² (39.1 km²).

PERIOD OF RECORD.--October 1964 to September 1982 (discontinued).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 48.33 ft (14.731 m) National Geodetic Vertical Datum of 1929 (levels by Contra Costa County Flood Control District).

REMARKS.--Records good above 1.0 ft³/s (0.03 m³/s) and fair below. No regulation or diversion above station.

AVERAGE DISCHARGE.--18 years, 4.60 ft³/s (0.130 m³/s), 3,330 acre-ft/yr (4.11 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,200 ft³/s (62.3 m³/s) Jan. 4, 1982, gage height, 12.65 ft (3.856 m), on basis of slope-area measurement at gage height 12.65 ft (3.856 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 250 ft³/s (7.08 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Dec. 19	2245	355	10.1	4.33	1.320	Mar. 17	1815	365	10.3	4.38	1.335
Jan. 4	2245	*2,200	62.3	12.65	3.856	Mar. 31	0600	1,880	53.2	11.41	3.478
Feb. 15	2345	717	20.3	5.92	1.804	Apr. 11	0245	568	16.1	5.28	1.609

Minimum daily, 0.03 ft³/s (<0.001 m³/s) Oct. 1, 5, 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.08	.75	21	7.9	21	113	10	4.0	2.0	.37	.23
2	.07	.09	.69	20	7.4	27	102	9.8	3.8	1.8	.50	.20
3	.09	.07	.63	13	7.4	11	177	9.3	3.6	1.6	.56	.21
4	.04	.07	.73	926	6.9	9.4	63	9.1	3.5	1.7	.55	.23
5	.03	.08	.57	292	6.5	8.8	46	8.5	3.4	1.6	.49	.26
6	.04	.10	.56	46	6.3	8.1	37	8.3	3.3	1.5	.42	.21
7	.77	.08	.76	27	6.2	8.3	31	8.1	3.3	1.3	.39	.23
8	.09	.08	.55	20	6.0	8.0	27	7.8	3.2	1.4	.41	.21
9	.08	.09	1.6	17	5.9	7.8	24	7.5	4.1	1.3	.38	.21
10	.15	.11	.97	14	5.8	8.9	131	7.2	3.2	1.3	.37	.18
11	.05	.11	.74	13	5.5	10	182	7.0	3.0	1.2	.26	.16
12	.05	19	.92	11	5.4	7.8	59	6.8	3.0	1.3	.28	.21
13	.05	74	.71	10	8.2	7.3	40	6.8	2.8	1.2	.26	.17
14	.06	4.4	.57	9.6	28	8.2	47	6.6	2.7	1.1	.38	.18
15	.04	1.3	.56	9.0	180	7.0	32	6.4	2.6	1.3	.35	.24
16	.03	1.9	.54	8.3	101	14	28	6.2	2.4	1.0	.41	.16
17	.04	3.6	.54	8.1	25	64	25	5.9	2.5	1.1	.93	.37
18	.07	.70	2.2	9.0	18	21	22	5.7	2.5	1.2	.55	.46
19	.05	.51	70	12	15	10	20	5.6	2.5	1.2	.37	.31
20	.05	.42	85	43	14	8.8	19	5.3	2.4	1.2	.37	.66
21	.05	6.2	10	15	13	8.1	17	5.3	2.5	1.1	.45	.46
22	.05	3.2	4.5	9.0	11	7.8	16	5.2	2.4	1.1	.52	.27
23	.04	3.0	3.3	8.2	11	8.0	15	5.1	2.3	1.0	.34	.24
24	.05	4.6	2.7	8.1	10	8.8	14	4.9	2.4	.95	.27	.18
25	.06	1.1	2.4	7.9	9.8	8.5	14	4.8	2.3	.93	.23	.31
26	.06	3.5	2.4	22	9.3	8.7	13	5.0	1.9	.93	.22	1.1
27	1.3	4.9	2.9	9.3	9.2	6.8	12	4.8	1.9	.85	.28	2.6
28	6.9	1.3	2.1	24	8.8	10	12	4.6	1.8	.63	.29	.54
29	.66	.84	48	10	---	63	11	4.4	1.7	.68	.31	.38
30	.11	.69	10	8.7	---	89	11	4.2	1.9	.68	.31	.32
31	.09	---	11	8.2	---	588	---	4.1	---	.61	.26	---
TOTAL	11.25	136.12	268.89	1659.4	548.5	1083.1	1360	200.3	82.9	36.76	12.08	11.49
MEAN	.36	4.54	8.67	53.5	19.6	34.9	45.3	6.46	2.76	1.19	.39	.38
MAX	6.9	74	85	926	180	588	182	10	4.1	2.0	.93	2.6
MIN	.03	.07	.54	7.9	5.4	6.8	11	4.1	1.7	.61	.22	.16
AC-FT	22	270	533	3290	1090	2150	2700	397	164	73	24	23
CAL YR 1981 TOTAL	735.56			2.02	85	MIN .02	AC-FT 1460					
WTR YR 1982 TOTAL	5410.79			14.8	926	MIN .03	AC-FT 10730					

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, Hydrologic Unit 18050001, 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 mi² (15.26 km²).

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.--30 years, 3.05 ft³/s (0.086 m³/s), 2,210 acre-ft/yr (2.72 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,600 ft³/s (45.3 m³/s) Oct. 13, 1962, gage height, 16.98 ft (5.176 m); no flow for parts of most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s (5.66 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 19	2315	266 7.53	4.15 1.265	Feb. 16	0030	581 16.5	6.32 1.926
Dec. 29	1545	230 6.51	3.92 1.195	Mar. 31	0200	427 12.1	5.20 1.585
Jan. 4	2330	*1,220 34.6	11.79 3.594	Apr. 11	0015	227 6.43	3.90 1.189

Minimum, no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	.32	20	6.8	19	75	7.4	2.6	1.3	.33	.24
2	0	0	.28	16	6.5	31	62	7.1	2.5	1.2	.36	.25
3	0	0	.28	13	6.3	12	98	6.7	2.4	1.1	.40	.26
4	0	0	.28	304	5.9	9.7	52	6.3	2.4	1.1	.41	.29
5	0	0	.28	183	5.5	8.6	33	6.0	2.4	1.1	.34	.26
6	0	0	.31	42	5.4	7.9	24	5.7	2.3	.96	.30	.24
7	.01	0	.28	25	5.4	7.8	20	5.5	2.3	.92	.27	.23
8	0	0	.29	20	5.2	7.5	17	5.4	2.2	.94	.26	.19
9	0	0	.44	16	5.1	7.1	15	5.1	2.1	.87	.30	.19
10	0	0	.51	14	5.0	8.7	52	5.0	2.1	.86	.33	.22
11	0	0	.35	12	4.6	9.7	87	4.9	2.1	.76	.33	.17
12	0	.70	.58	11	4.6	6.5	48	4.7	2.0	.70	.31	.17
13	0	11	.54	9.7	6.9	5.9	32	4.5	2.0	.65	.29	.19
14	0	1.1	.51	9.2	5.9	6.9	39	4.6	2.0	.63	.32	.24
15	0	.03	.65	8.6	208	5.6	24	4.4	1.7	.56	.32	.31
16	0	.03	.52	7.9	134	15	21	4.4	1.5	.58	.27	.41
17	0	1.7	.49	7.7	48	12	19	4.4	1.4	.64	.24	.41
18	0	.05	.64	8.2	27	8.1	17	4.2	1.5	.61	.25	.45
19	0	.01	33	11	20	7.0	16	4.1	1.4	.57	.30	.39
20	0	0	84	33	17	6.6	14	4.1	1.4	.53	.34	.34
21	0	2.3	12	16	15	6.2	13	3.9	1.4	.56	.27	.31
22	0	.89	5.8	9.7	13	5.9	12	3.9	1.4	.53	.23	.28
23	0	1.3	4.6	8.8	12	5.6	11	3.8	1.3	.49	.21	.39
24	0	1.1	4.4	8.3	11	5.6	11	3.6	1.2	.50	.24	.57
25	0	.25	4.1	7.9	9.9	5.3	10	3.3	1.2	.52	.28	.79
26	0	1.5	4.2	14	9.4	6.1	9.7	3.1	1.2	.54	.32	.52
27	.01	2.0	6.0	8.1	9.0	5.0	9.1	3.0	1.1	.50	.30	.39
28	.77	.90	4.3	14	8.4	9.4	8.6	2.9	1.1	.44	.28	.37
29	.45	.44	81	8.6	---	51	8.1	2.8	1.2	.35	.27	.32
30	0	.33	24	7.7	---	38	7.7	2.8	1.2	.36	.27	.39
31	0	---	16	7.3	---	221	---	2.6	---	.33	.24	---
TOTAL	1.24	25.63	290.95	881.7	673.9	561.7	865.2	140.2	52.6	21.70	9.18	9.78
MEAN	.040	.85	9.39	28.4	24.1	18.1	28.8	4.52	1.75	.70	.30	.33
MAX	.77	11	84	304	208	221	98	7.4	2.6	1.3	.41	.79
MIN	0	0	.28	7.3	4.6	5.0	7.7	2.6	1.1	.33	.21	.17
AC-FT	2.5	51	577	1750	1340	1110	1720	278	104	43	18	19
CAL YR 1981	TOTAL	495.11	MEAN 1.36	MAX 84	MIN 0	AC-FT 982						
WTR YR 1982	TOTAL	3533.78	MEAN 9.68	MAX 304	MIN 0	AC-FT 7010						

PACHECO CREEK BASIN

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11183000 SAN RAMON CREEK AT WALNUT CREEK, CA

LOCATION.--Lat 37°52'38", long 122°02'52", in San Ramon Grant, Contra Costa County, Hydrologic Unit 18050001, on left bank 600 ft (183 m) upstream from Rudgear Road, near south city limits of town of Walnut Creek.

DRAINAGE AREA.--47.9 mi² (124.1 km²).

PERIOD OF RECORD.--October 1952 to current year.

REVISED RECORDS.--WSP 1395: 1953(M). WDR CA-79-2: 1978.

GAGE.--Water-stage recorder. Concrete control since Dec. 4, 1962. Datum of gage is 169.98 ft (51.810 m), National Geodetic Vertical Datum of 1929. 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.--30 years, 17.4 ft³/s (0.493 m³/s), 12,610 acre-ft/yr (15.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,980 ft³/s (226 m³/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 ft³/s (62.3 m³/s) on basis of computed discharge at gage height 13.16 ft (4.011 m); maximum gage height, 15.55 ft (4.740 m) Jan. 5, 1982; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 12	2315	1,270 36.0	5.09 1.551	Feb. 16	0145	3,030 85.8	8.16 2.487
Dec. 20	0115	1,380 39.1	5.29 1.612	Mar. 28	1645	1,620 45.9	5.71 1.740
Dec. 29	1745	1,410 39.9	5.34 1.628	Mar. 31	0930	2,710 76.7	7.61 2.320
Jan. 5	0045	*7,400 210	15.55 4.740	Apr. 11	0245	1,190 33.7	4.94 1.506

Minimum daily, 1.8 ft³/s (0.05 m³/s) Oct. 18-22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	3.8	10	107	29	158	293	28	15	12	6.4	5.4
2	2.1	3.6	9.5	113	27	127	168	28	15	12	6.1	5.2
3	4.1	4.3	9.1	48	26	58	357	26	16	13	5.9	5.2
4	4.9	3.9	8.7	2130	24	51	142	25	14	13	6.1	5.2
5	3.6	3.7	8.3	1510	22	43	107	24	15	13	6.1	5.0
6	3.1	3.4	7.9	94	22	36	92	24	15	13	6.2	4.9
7	9.8	3.4	7.6	80	21	35	76	21	14	13	6.4	4.9
8	5.3	3.1	7.4	62	23	33	69	22	15	12	6.4	4.9
9	2.4	3.8	20	51	22	34	62	21	14	13	6.4	4.9
10	2.2	4.5	15	44	21	59	259	22	14	13	6.3	4.8
11	2.2	3.7	7.7	39	20	53	446	22	14	13	6.4	3.9
12	2.1	264	9.7	34	20	31	146	22	14	13	6.4	3.6
13	2.0	207	12	29	41	37	92	22	13	12	6.6	3.6
14	2.0	20	8.9	28	313	30	139	22	13	12	6.8	3.6
15	2.0	9.8	8.5	27	1250	83	77	20	12	12	6.8	3.6
16	2.0	11	8.7	25	350	64	65	20	11	13	6.8	10
17	2.0	35	7.6	24	200	58	59	19	10	13	6.8	22
18	1.8	8.5	14	27	125	40	53	19	10	11	6.8	10
19	1.8	7.0	159	58	92	30	49	18	11	9.6	6.1	7.2
20	1.8	7.6	560	233	66	30	46	17	10	8.7	6.1	6.0
21	1.8	81	76	112	62	25	44	17	11	8.5	6.1	5.4
22	1.8	27	31	40	53	25	41	17	12	7.9	6.1	4.7
23	2.0	24	23	36	46	23	38	17	12	7.5	5.8	4.4
24	2.2	42	18	44	42	23	37	16	12	7.2	5.7	21
25	2.2	14	15	38	37	38	36	15	12	7.1	5.5	28
26	2.5	10	15	88	36	24	35	15	12	7.2	5.2	11
27	4.1	10	28	42	34	54	33	15	12	7.1	5.2	5.3
28	84	10	16	97	47	385	33	15	12	6.9	5.2	4.3
29	54	8.9	526	43	---	190	32	15	12	6.5	5.2	3.9
30	4.4	11	164	35	---	295	30	15	12	6.4	5.2	4.0
31	4.5	---	69	31	---	1730	---	15	---	6.4	5.2	---
TOTAL	226.9	849.0	1880.6	5369	3071	3902	3156	614	384	323.0	188.3	215.9
MEAN	7.32	28.3	60.7	173	110	126	105	19.8	12.8	10.4	6.07	7.20
MAX	84	264	560	2130	1250	1730	446	28	16	13	6.8	28
MIN	1.8	3.1	7.4	24	20	23	30	15	10	6.4	5.2	3.6
AC-FT	450	1680	3730	10650	6090	7740	6260	1220	762	641	373	428
CAL YR 1981	TOTAL	5697.7	MEAN 15.6	MAX 560	MIN 1.8	AC-FT 11300						
WTR YR 1982	TOTAL	20179.7	MEAN 55.3	MAX 2130	MIN 1.8	AC-FT 40030						

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, Hydrologic Unit 18050001, 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.--85.2 mi² (220.7 km²).

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

REVISED RECORDS.--NRD CA-79-2: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 35.44 ft (10.802 m) Corps of Engineers datum.

REMARKS.--Records good except those for period of no gage height record, June 29 to Aug. 6, which are fair. Flow slightly regulated by Lafayette Reservoir 10 mi (16 km) upstream, capacity, 4,240 acre-ft (5.23 hm³). Some small diversions for irrigation above station.

AVERAGE DISCHARGE.--14 years, 47.4 ft³/s (1.342 m³/s), 34,340 acre-ft/yr (42.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,300 ft³/s (377 m³/s) Jan. 5, 1982, gage height, 19.10 ft (5.822 m); minimum daily, 0.70 ft³/s (0.020 m³/s) Oct. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 850 ft³/s (24.1 m³/s) and maximum (*) from rating curve extended above 3,000 ft³/s (85.0 m³/s) on basis of slope-area measurement of peak flow:

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 13	1630	3,150 89.2	7.70 2.347	Jan. 21	0045	989 28.0	5.21 1.588
Dec. 20	0030	3,860 109	8.40 2.560	Mar. 31	1045	5,780 164	10.48 3.194
Dec. 29	1615	2,650 75.0	7.17 2.185	Apr. 11	0015	2,950 83.5	7.50 2.286
Jan. 5	0145	*13,300 377	19.10 5.822				

Minimum daily, 3.40 ft³/s (0.096 m³/s) Oct. 23.

REVISIONS.--The figures of peak discharge for water years 1969, 1970, 1973, 1975, 1978, and 1980 have been revised as shown in the following table, superseding those published in the reports for the aforementioned water years:

Water Year	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
1969	Jan. 26	0300	6,030 171	10.75 3.277
1970	Jan. 21	1045	5,900 167	10.65 3.246
1973	Jan. 16	1015	8,080 229	12.98 3.956
1973	Feb. 27	1700	8,800 249	Unknown
1975	Mar. 21	2000	7,870 223	12.75 3.886
1978	Jan. 16	1130	6,110 173	10.83 3.301
1980	Jan. 13	1900	6,810 193	11.57 3.527

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	7.8	17	179	71	239	591	75	40	21	13	11
2	5.5	7.3	16	199	67	412	442	74	42	20	13	11
3	9.8	6.9	15	126	63	132	892	69	42	20	13	10
4	12	7.0	15	5170	59	99	352	64	40	19	13	11
5	7.5	6.7	14	3130	55	89	244	59	43	19	12	10
6	4.7	7.6	16	266	53	80	219	57	46	18	12	10
7	27	6.9	14	174	55	78	188	55	53	18	12	10
8	20	6.6	14	144	57	73	164	51	45	18	12	10
9	5.0	6.6	36	117	59	69	140	52	40	17	12	10
10	6.9	6.7	26	102	57	97	691	48	32	17	12	9.8
11	15	6.7	14	93	55	125	1180	43	29	17	12	9.4
12	8.4	103	16	78	52	72	466	43	28	16	13	8.5
13	4.0	902	20	65	50	63	308	42	26	16	13	9.4
14	9.5	122	13	61	180	83	355	46	25	16	13	9.5
15	13	36	11	58	670	62	254	41	24	15	13	14
16	14	42	12	54	3000	195	219	40	22	15	13	22
17	10	127	11	51	250	159	199	49	21	15	13	45
18	15	24	22	49	180	126	180	56	21	15	12	34
19	16	15	475	102	147	79	168	47	22	15	13	27
20	5.3	13	1060	255	128	69	153	42	20	15	13	24
21	4.5	110	131	396	115	65	141	37	20	14	13	16
22	4.1	82	63	131	102	61	132	37	20	14	14	10
23	3.4	45	46	95	93	59	124	37	20	14	13	12
24	3.9	79	39	90	87	56	116	36	21	14	12	34
25	3.8	23	36	83	82	55	113	36	23	14	11	69
26	3.8	83	36	168	77	92	107	37	24	14	11	30
27	32	101	58	94	77	55	100	37	24	13	12	14
28	211	53	40	181	72	130	91	36	23	13	12	10
29	90	24	806	105	---	637	87	35	23	13	12	9.6
30	15	18	201	79	---	457	79	44	22	13	11	9.0
31	9.4	---	135	75	---	3550	---	49	---	13	11	---
TOTAL	593.1	2078.8	3428	11970	6013	7618	8495	1474	881	491	384	519.2
MEAN	19.1	69.3	111	386	215	246	283	47.5	29.4	15.8	12.4	17.3
MAX	211	902	1060	5170	3000	3550	1180	75	53	21	14	69
MIN	3.4	6.6	11	49	50	55	79	35	20	13	11	8.5
AC-FT	1180	4120	6800	23740	11930	15110	16850	2920	1750	974	762	1030
CAL YR 1981 TOTAL	12092.3			33.1	MAX 1060	MIN 3.4	AC-FT 23990					
WTR YR 1982 TOTAL	43945.1			MEAN 120	MAX 5170	MIN 3.4	AC-FT 87170					

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, Hydrologic Unit 18050001, 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 mi² (3.16 km²).

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.

AVERAGE DISCHARGE.--8 years, 0.30 ft³/s (0.009 m³/s), 220 acre-ft/yr (271,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 138 ft³/s (3.91 m³/s) Jan. 4, 1982, gage height, 2.41 ft (0.734 m), from rating curve extended above 12 ft³/s (0.34 m³/s) on basis of critical depth computation; no flow for long periods in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 30 ft³/s (0.85 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Jan. 4	2215	*138	3.91	2.41	0.734
Mar. 31	0815	52	1.47	1.96	.597

Minimum, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.14	.42	.83	1.3	8.8	1.1	.26	.18		
2		0	.12	.41	.78	1.8	5.6	1.0	.23	.17		
3		0	.11	.74	.78	1.1	8.7	.98	.22	.14		
4		0	.10	34	.97	4.5	.92	.22	.13			
5		0	.10	17	.78	.89	3.4	.86	.22	.13		
6		0	.08	6.7	.78	.85	2.7	.80	.21	.11		
7		0	.08	4.5	.78	.85	2.2	.74	.21	.10		
8		0	.07	3.3	.77	.81	1.9	.69	.20	.10		
9		0	.08	2.6	.78	.78	1.7	.65	.18	.08		
10		0	.08	2.1	.76	.83	4.7	.61	.17	.07		
11		0	.07	1.7	.71	.91	11	.56	.18	.07		
12		0	.07	1.4	.71	.75	5.6	.53	.19	.05		
13		2.2	.06	1.2	.78	.71	4.2	.56	.17	.05		
14		.15	.05	1.1	1.1	.82	4.2	.46	.16	.05		
15		0	.06	.97	8.3	.71	3.7	.43	.14	.05		
16		.01	.07	.87	7.0	1.3	3.3	.39	.12	.05		
17		.13	.06	.77	2.9	1.4	3.1	.39	.12	.05		
18		.04	.02	.71	2.0	1.5	2.9	.37	.12	.05		
19		.02	.55	.80	1.6	1.2	2.8	.35	.14	.06		
20		.02	2.5	1.7	1.4	1.1	2.6	.32	.14	.07		
21		.13	.37	1.2	1.3	.99	2.4	.32	.13	.07		
22		.21	.22	.96	1.1	.93	2.2	.32	.13	.05		
23		.15	.18	.93	1.0	.89	2.1	.28	.12	.03		
24		.16	.15	.85	.97	.85	1.9	.25	.13	.02		
25		.13	.13	.85	.93	.83	1.8	.26	.13	0		
26		.19	.12	1.0	.90	.91	1.6	.28	.12	0		
27		.30	.12	.85	.85	.78	1.5	.28	.11	0		
28		.21	.10	1.0	.85	.91	1.4	.26	.12	0		
29		.18	2.5	.90	---	3.3	1.3	.26	.15	0		
30		.15	.68	.85	---	3.3	1.2	.26	.16	0		
31		---	.38	.85	---	25	---	.26	---	0		---
TOTAL	0	4.36	9.42	93.23	42.22	59.27	105.0	15.74	4.90	1.93	0	0
MEAN	0	.15	.30	3.01	1.51	1.91	3.50	.51	.16	.062	0	0
MAX	0	2.2	2.5	34	8.3	25	11	1.1	.26	.18	0	0
MIN	0	0	.02	.41	.71	.71	1.2	.25	.11	0	0	0
AC-FT	0	8.7	19	185	84	118	208	31	9.7	3.8	0	0
CAL YR 1981	TOTAL	26.82	MEAN .074	MAX	2.5	MIN 0	AC-FT 53					
WTR YR 1982	TOTAL	336.09	MEAN .92	MAX	34	MIN 0	AC-FT 667					

11455900 NAPA RIVER AT CALISTOGA, CA

LOCATION.--Lat 38°34'38", long 122°34'49", in Carne Humana Grant, Napa County, Hydrologic Unit 18050002, 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 mi² (56.7 km²).

PERIOD OF RECORD.--October 1975 to current year.

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

REMARKS.--Records good. Flow slightly regulated by Kimball Creek Reservoir 3.7 mi (6.0 km) upstream, capacity, 344 acre-ft (424,000 m³). No diversion above station.

AVERAGE DISCHARGE.--7 years, 26.8 ft³/s (0.759 m³/s), 19,420 acre-ft/yr (23.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,400 ft³/s (125 m³/s) Jan. 16, 1978, gage height, 17.21 ft (5.246 m); no flow many days in 1976, 1977, 1978, and 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 21	1545	1,780 50.4	10.44 3.182	Feb. 15	2130	*3,540 100	15.43 4.703
Dec. 19	1800	3,480 98.6	15.26 4.651	Mar. 30	2230	2,460 69.7	12.37 3.770
Dec. 29	1345	1,510 42.8	9.73 2.966	Apr. 2	1645	1,350 38.2	9.27 2.825
Jan. 4	1030	2,580 73.1	12.68 3.865	Apr. 11	0115	2,210 62.6	11.66 3.554

Minimum daily, 0.02 ft³/s (0.001 m³/s) Oct. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.33	24	135	38	187	316	12	3.1	1.4	.36	.16
2	.02	.32	19	124	34	168	682	12	2.9	1.3	.36	.18
3	.05	.27	17	102	31	99	454	11	2.7	1.3	.39	.19
4	.05	.27	15	1410	27	73	222	11	2.8	1.3	.38	.16
5	.04	.29	13	408	23	58	161	8.7	2.8	1.0	.36	.15
6	.04	.48	13	153	21	49	128	8.8	2.6	.99	.35	.14
7	2.0	.39	15	103	19	42	102	7.7	2.6	.96	.31	.14
8	.09	.39	13	78	18	37	84	7.1	2.6	.89	.29	.12
9	.09	.47	20	63	17	32	70	6.5	2.6	.90	.27	.13
10	.49	.53	28	52	16	37	552	6.2	2.4	.77	.28	.14
11	.17	.64	20	45	15	41	1120	5.8	2.4	.81	.28	.13
12	.15	6.2	24	40	14	33	353	5.5	2.4	.76	.29	.12
13	.16	86	33	35	25	27	236	4.9	2.3	.72	.27	.12
14	.17	38	58	30	250	27	243	4.9	2.3	.65	.24	.14
15	.15	151	47	27	1610	22	157	4.6	2.1	.60	.27	.15
16	.14	260	40	24	751	27	116	4.3	2.1	.58	.25	.60
17	.15	188	32	22	223	52	91	4.1	2.1	.54	.25	.18
18	.16	48	354	22	140	37	71	4.0	1.9	.55	.24	.21
19	.15	28	2020	31	103	37	58	3.7	1.9	.53	.24	.15
20	.16	19	856	64	82	32	49	3.8	1.9	.55	.22	.13
21	.27	639	277	55	67	29	40	3.8	1.8	.52	.22	.12
22	.24	152	163	41	56	25	34	3.3	1.8	.50	.22	.11
23	.20	199	123	38	48	23	29	3.0	1.8	.49	.20	.11
24	.18	151	100	36	42	20	25	3.0	1.6	.43	.19	.55
25	.20	73	85	33	36	19	22	2.8	1.6	.40	.19	.14
26	.23	65	101	79	33	18	20	2.9	1.5	.42	.18	.11
27	5.8	75	126	58	36	17	18	2.7	1.5	.42	.18	.11
28	8.4	51	91	85	30	23	16	2.3	1.5	.42	.17	.11
29	2.8	38	536	61	---	47	15	2.4	1.4	.40	.17	.11
30	.54	30	200	50	---	692	13	2.6	1.4	.38	.16	.11
31	.39	---	145	43	---	1320	---	2.4	---	.37	.16	---
TOTAL	23.70	2301.58	5608	3547	3805	3350	5497	167.8	64.4	21.85	7.94	5.02
MEAN	.76	76.7	181	114	136	108	183	5.41	2.15	.70	.26	.17
MAX	8.4	639	2020	1410	1610	1320	1120	12	3.1	1.4	.39	.60
MIN	.02	.27	13	22	14	17	13	2.3	1.4	.37	.16	.11
AC-FT	47	4570	11120	7040	7550	6640	10900	333	128	43	16	10.0
CAL YR 1981	TOTAL	13482.04	MEAN	36.9	MAX	2020	MIN	.02	AC-FT	26740		
WTR YR 1982	TOTAL	24399.29	MEAN	66.8	MAX	2020	MIN	.02	AC-FT	48400		

11456000 NAPA RIVER NEAR ST. HELENA, CA

LOCATION.--Lat 38°29'52", long 122°25'37", in Carne Humana Grant, Napa County, Hydrologic Unit 18050002, 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 mi² (210.8 km²).

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. WDR CA-78-2: 1977(M).

GAGE.--Water-stage recorder. Datum of gage is 170.12 ft (51.853 m) National Geodetic Vertical Datum of 1929. Prior to Nov. 22, 1958, at datum 3.00 ft (0.914 m) higher. Nov. 22, 1958, to July 22, 1976, at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records good. Some regulation by Bell Canyon Reservoir since 1959, capacity, 2,530 acre-ft (3.12 hm³). Small diversions above station for irrigation of about 1,500 acres (6.07 km²).

AVERAGE DISCHARGE.--46 years, 95.3 ft³/s (2.700 m³/s), 69,040 acre-ft/yr (85.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft³/s (357 m³/s) Dec. 22, 1955, gage height, 18.17 ft (5.538 m) present datum; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,200 ft³/s (119 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 19	2300	*10,000 283	16.30 4.968	Mar. 31	0200	5,700 161	12.61 3.844
Jan. 4	1400	7,670 217	14.41 4.392	Apr. 11	0330	4,760 135	11.63 3.545
Feb. 16	0045	8,700 246	15.27 4.654				

Minimum daily, 0.45 ft³/s (0.013 m³/s) Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.57	2.8	87	666	149	603	1260	73	21	11	3.3	2.2
2	.45	2.5	77	601	130	627	1960	70	21	9.8	3.2	2.2
3	.47	2.6	70	421	116	365	1630	66	20	8.2	3.1	2.2
4	.48	2.6	106	4850	106	274	844	62	19	7.8	3.1	1.9
5	.48	2.6	156	2210	99	220	566	58	19	7.3	3.0	1.1
6	.48	2.8	62	946	92	185	429	55	19	7.3	2.8	1.3
7	.73	2.8	61	508	87	164	324	51	18	7.3	2.8	1.7
8	.74	2.8	56	377	82	148	262	50	17	7.3	2.6	1.7
9	.73	2.8	63	304	77	131	213	47	16	6.5	2.6	1.7
10	.63	2.8	86	252	75	139	1050	45	15	6.0	2.8	1.7
11	.76	2.8	68	210	71	145	3110	42	15	6.8	2.8	1.8
12	1.0	12	72	167	67	123	1250	39	15	6.1	2.8	1.9
13	1.1	137	83	144	98	109	780	39	15	5.4	2.8	1.9
14	1.2	156	135	127	554	107	781	38	14	5.7	2.8	1.9
15	1.3	131	120	115	3730	96	558	35	13	5.6	2.8	2.2
16	1.2	503	99	105	3400	114	419	33	12	4.9	2.8	3.1
17	1.2	676	88	98	945	166	330	33	12	4.7	3.2	4.0
18	1.2	122	394	96	553	140	263	30	12	4.4	3.1	4.5
19	1.2	67	5810	124	387	124	217	30	12	4.2	3.1	3.8
20	1.2	45	4180	294	304	109	184	29	12	4.3	3.1	3.4
21	1.2	1500	1270	232	250	103	159	29	12	4.7	3.1	3.1
22	1.2	635	668	165	207	93	141	29	12	4.9	2.8	2.8
23	1.2	740	404	144	176	86	128	29	11	4.9	2.6	2.4
24	1.2	702	282	133	156	82	117	26	10	4.9	2.6	2.9
25	1.3	282	228	123	139	78	107	25	11	4.9	2.6	4.5
26	1.3	227	203	271	131	77	100	23	11	4.9	2.7	4.5
27	1.5	292	268	209	136	72	93	24	11	4.9	2.7	7.1
28	42	182	195	316	119	86	86	24	12	4.5	2.4	3.6
29	19	132	1530	237	---	156	81	23	12	4.2	2.4	6.6
30	7.4	103	948	193	---	1280	76	23	12	4.1	2.4	2.4
31	3.9	---	682	172	---	4010	---	22	---	3.8	2.3	---
TOTAL	98.32	6673.9	18551	14810	12436	10212	17518	1202	431	181.3	87.2	193.2
MEAN	3.17	222	598	478	444	329	584	38.8	14.4	5.85	2.81	6.44
MAX	42	1500	5810	4850	3730	4010	3110	73	21	11	3.3	4.5
MIN	.45	2.5	56	96	67	72	76	22	10	3.8	2.3	1.1
AC-FT	195	13240	36800	29380	24670	20260	34750	2380	855	360	173	383

CAL YR 1981 TOTAL 41133.95 MEAN 113 MAX 5810 MIN .26 AC-FT 81590
WTR YR 1982 TOTAL 82393.92 MEAN 226 MAX 5810 MIN .45 AC-FT 163400

NAPA RIVER BASIN

11458000 NAPA RIVER NEAR NAPA, CA
(National stream-quality accounting network station)

LOCATION.--Lat 38°22'06", long 122°18'08", in Yajome Grant, Napa County, Hydrologic Unit 18050002, 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 mi² (565 km²).

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) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Flow slightly regulated by Bell Canyon Reservoir beginning in 1959, capacity, 2,530 acre-ft (3.12 hm³) and Lake Hennessey beginning in December 1945, capacity, 31,000 acre-ft (38.2 hm³). Diversions for irrigation of about 10,000 acres (40.5 km²) above station.

AVERAGE DISCHARGE.--26 years, 193 ft³/s (5.466 m³/s), 139,800 acre-ft/yr (172 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,900 ft³/s (592 m³/s) Jan. 4, 1982, gage height, 25.65 ft (7.818 m); maximum gage height, 27.59 ft (8.409 m) Jan. 31, 1963; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft³/s (142 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 20	0845	17,800 504	23.85 7.269	Feb. 16	0830	14,400 408	21.69 6.611
Dec. 29	1830	6,870 195	15.92 4.852	Mar. 31	1115	13,100 371	20.82 6.346
Jan. 4	2100	*20,900 592	25.65 7.818	Apr. 11	0800	9,360 265	17.97 5.477

Minimum daily, 0.51 ft³/s (0.014 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.51	9.5	188	1570	352	1230	4290	223	51	25	14	6.4
2	.92	7.4	154	1400	294	1500	5080	213	47	23	14	6.3
3	2.2	6.3	135	999	258	1060	5310	196	48	24	13	6.8
4	2.2	6.0	122	13200	227	800	2700	179	50	24	11	6.8
5	2.0	6.1	248	9700	197	657	1850	164	49	23	10	6.8
6	1.8	6.2	118	3190	172	531	1460	150	50	20	12	6.0
7	2.7	6.0	95	1750	149	457	1130	140	49	21	12	5.8
8	2.5	6.0	90	1260	131	406	937	135	48	24	12	5.8
9	2.2	6.3	87	1000	118	355	795	125	44	19	12	5.9
10	2.3	6.3	147	837	110	349	1710	119	41	17	10	6.3
11	2.4	6.2	108	698	99	379	7510	111	43	20	11	6.0
12	2.4	25	104	585	88	307	3470	103	47	19	9.4	5.6
13	2.6	320	129	489	121	265	2090	98	42	15	8.2	5.8
14	2.5	370	186	424	605	268	1840	96	47	14	8.6	5.9
15	2.4	320	195	378	5780	237	1400	90	44	13	8.4	6.3
16	2.7	1300	164	336	9920	297	1130	82	44	16	7.0	7.3
17	2.3	1740	133	307	2670	453	939	77	41	18	7.4	7.5
18	1.8	350	205	290	1560	398	787	70	38	16	7.3	10
19	2.0	120	9260	329	1150	341	669	70	38	15	7.3	9.8
20	2.4	96	12900	931	917	286	562	65	40	12	7.4	9.0
21	3.0	3800	3490	801	758	244	459	70	36	13	7.8	8.4
22	2.6	1400	1690	547	628	218	387	71	30	15	7.8	7.9
23	3.0	1700	1110	437	510	197	337	70	25	15	7.5	7.9
24	3.2	1700	831	382	434	184	296	68	24	16	7.1	9.4
25	3.0	639	666	339	372	167	261	64	22	14	7.3	29
26	3.2	496	549	547	328	161	232	60	24	13	7.1	45
27	4.0	690	573	515	333	147	266	58	24	10	6.7	43
28	84	443	477	699	290	175	275	55	25	20	7.1	13
29	40	311	2980	586	---	402	257	55	25	14	7.4	11
30	20	232	2280	472	---	1790	237	54	25	15	7.3	11
31	15	---	1440	406	---	10800	---	54	---	12	6.8	---
TOTAL	223.83	16124.3	40854	45404	28571	25061	48666	3185	1161	535	282.7	321.7
MEAN	7.22	537	1318	1465	1020	808	1622	103	38.7	17.3	9.12	10.7
MAX	84	3800	12900	13200	9920	10800	7510	223	51	25	14	45
MIN	.51	6.0	87	290	88	147	232	54	22	10	6.7	5.6
AC-FT	444	31980	81030	90060	56670	49710	96530	6320	2300	1060	561	638
CAL YR 1981	TOTAL	83411.33	MEAN	229	MAX	12900	MIN	.40	AC-FT	165400		
WTR YR 1982	TOTAL	210389.53	MEAN	576	MAX	13200	MIN	.51	AC-FT	417300		

11458000 NAPA RIVER NEAR NAPA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971, 1973 to current year.

CHEMICAL ANALYSES: Water years 1973 to current year.

BIOLOGICAL DATA: Water years 1978-81.

SPECIFIC CONDUCTANCE: Water years 1978-81.

WATER TEMPERATURES: Water years 1977-81.

SEDIMENT RECORDS: Water years 1971, 1977 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1978 to September 1981.

WATER TEMPERATURES: October 1976 to September 1981.

SEDIMENT RECORDS: October 1976 to September 1978.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 500 micromhos Sept. 1, 1981; minimum recorded, 81 micromhos Mar. 1, 1979.

WATER TEMPERATURES: Maximum recorded, 28.0°C July 13, 1979; minimum recorded, 3.0°C Dec. 31, 1978; Jan. 1, 1979.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L AS CAC03)
NOV 19...	1055	118	249	6.7	12.5	9.2	9.6	420	680	90	11
JAN 20...	1400	1240	168	6.8	10.0	60	10.8	K13000	49000	77	0
MAR 16...	1130	347	256	7.2	11.5	12	10.2	740	850	105	15
MAY 18...	1300	71	334	7.3	18.5	2.6	9.4	51	540	141	11
JUL 13...	1240	14	390	7.8	23.5	1.2	11.2	K12	K13	175	15
SEP 14...	1330	6.0	450	7.6	20.0	.90	9.1	K13	290	213	43

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CAC03)	ALKA- LINITY LAB (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
NOV 19...	18	11	15	26	.7	2.5	79	--	14	13	.2
JAN 20...	15	9.6	7.6	17	.4	1.7	--	79	6.0	6.9	.1
MAR 16...	19	14	13	21	.6	1.9	90	--	20	8.4	.2
MAY 18...	25	19	16	20	.6	2.0	130	--	28	10	.3
JUL 13...	29	25	18	18	.6	2.1	160	--	28	13	.2
SEP 14...	34	31	21	18	.6	2.1	170	--	36	17	.2

See footnotes at end of table.

NAPA RIVER BASIN

11458000 NAPA RIVER NEAR NAPA, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
NOV 19...	33	178	154	.24	1.9	.18	.68	.07	.06	.09
JAN 20...	18	118	113 ¹	.16	1.2	.15	1.0	.04	.08	.07
MAR 16...	32	163	167	.22	1.1	.07	.40	.06	.03	.03
MAY 18...	37	205	216	.28	1.6	.12	1.8	.05	.05	.04
JUL 13...	29	242	243	.33	.84	.07	1.0	.05	.02	.04
SEP 14...	34	259	287	.35	.84	.08	.50	.07	.02	.03

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS HA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)
NOV 19...	1055	3	2	<100	49	<1	<1	10	<10	<1
JAN 20...	1400	2	1	100	47	<1	<1	20	<10	3
MAY 18...	1300	3	2	<100	71	<1	<3	10	<10	2
SEP 14...	1330	3	2	100	88	<1	<1	<10	<10	1

DATE	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
NOV 19...	<3	--	10	820	78	3	11	30	9	.2
JAN 20...	<3	24	4	5500	130	1	1	120	14	.2
MAY 18...	1	15	2	330	28	5	2	20	13	<.1
SEP 14...	<1	<1	1	50	6	<1	<1	20	9	.1

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 19...	<.1	6	7	<1	<1	<1	<1	30	8
JAN 20...	<.1	28	19	<1	<1	<1	<1	50	<3
MAY 18...	<.1	6	3	<1	<1	<1	<1	20	<12
SEP 14...	<.1	<1	<1	<1	<1	<1	<1	10	6

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

1 Results based on Laboratory Alkalinity value.

< Actual value is known to be less than the value shown.

11458000 NAPA RIVER NEAR NAPA, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
NOV								
19...	1120	117	12.5	30	9.5	--	--	--
19...	1120	117	12.5	30	9.5	--	--	--
JAN								
20...	1330	1240	10.0	394	1320	39	47	56
20...	1330	1240	10.0	394	1320	39	47	56
MAR								
16...	1415	335	12.5	27	24	--	--	--
16...	1415	335	12.5	27	24	--	--	--
MAY								
18...	1425	69	18.5	8	1.5	--	--	--
18...	1425	69	18.5	8	1.5	--	--	--
SEP								
14...	1315	5.6	20.0	2	.03	--	--	--
14...	1315	5.6	20.0	2	.03	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
NOV							
19...	--	--	100	--	--	--	--
19...	--	--	100	--	--	--	--
JAN							
20...	64	72	78	86	95	99	100
20...	--	72	78	86	95	99	100
MAR							
16...	--	--	85	--	--	--	--
16...	--	--	85	--	--	--	--
MAY							
18...	--	--	77	--	--	--	--
18...	--	--	77	--	--	--	--
SEP							
14...	--	--	100	--	--	--	--
14...	--	--	100	--	--	--	--

NAPA RIVER BASIN

11458100 MILLIKEN CREEK NEAR NAPA, CA

LOCATION.--Lat 38°20'19", long 122°16'06", in Yajome Grant, Napa County, Hydrologic Unit 18050002, 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 mi² (44.8 km²).

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

REVISED RECORDS.--WDR CA-79-2: 1971, 1973-75, 1978.

GAGE.--Water-stage recorder. Datum of gage is 37.68 ft (11.485 m) National Geodetic Vertical Datum of 1929 (levels by county of Napa).

REMARKS.--Records good except those for period of faulty gage-height record, Apr. 22 to July 14, which are fair. Flow regulated by Milliken Reservoir, capacity, 2,000 acre-ft (2.47 km³) and by several small lakes and diversion dams on the Silverado Golf Course; diversions above station for irrigation of about 500 acres (2.02 km²).

AVERAGE DISCHARGE.--12 years, 20.5 ft³/s (0.580 m³/s), 14,850 acre-ft/yr (18.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,390 ft³/s (96.0 m³/s), Dec. 19, 1982, gage height, 9.99 ft (3.045 m), from rating curve extended above 2,780 ft³/s (78.7 m³/s); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft³/s (17.0 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 23	2030	1,400 39.6	5.46 1.664	Feb. 15	1900	2,750 77.9	8.21 2.502
Dec. 19	1845	*3,390 96.0	9.99 3.045	Mar. 31	0130	2,060 58.3	6.92 2.109
Dec. 29	1330	2,230 63.2	7.24 2.207	Apr. 2	1900	1,980 56.1	6.75 2.057
Jan. 1	1030	2,930 83.0	8.70 2.652	Apr. 10	0130	1,580 44.7	5.93 1.807

Minimum, no flow for several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.24	1.6	23	199	22	150	357	7.0	3.8	1.1	1.4	.43
2	.01	1.5	20	145	24	124	748	6.6	3.8	1.1	.67	.38
3	0	1.6	17	87	23	59	591	6.4	3.7	1.1	.52	.68
4	0	1.5	15	1820	28	43	190	6.0	3.7	.93	.34	.64
5	8.2	1.4	14	623	13	31	103	5.8	3.7	1.0	.19	.40
6	1.8	1.6	12	170	11	24	73	5.6	3.6	.82	.32	.02
7	3.5	1.4	12	72	15	22	52	5.4	3.5	.56	.07	.03
8	2.9	1.4	11	52	15	21	43	5.2	3.4	.41	.13	0
9	4.8	1.3	12	39	14	19	36	5.1	17	.36	.06	.19
10	1.1	1.3	14	31	14	22	248	2.0	6.7	.32	2.8	.15
11	.69	1.2	8.5	25	13	42	653	4.8	4.5	.29	.41	.02
12	.64	13	12	26	12	22	243	4.7	2.6	.35	.66	.02
13	.62	120	16	13	28	19	114	4.6	1.9	.39	1.3	0
14	.56	25	23	16	218	21	104	4.5	1.7	.34	.50	.16
15	2.5	18	20	14	1330	17	66	4.4	2.3	.49	.26	1.7
16	1.2	24	17	13	619	29	51	4.3	3.6	.23	3.4	3.8
17	1.3	33	13	12	188	46	42	4.3	3.2	.31	.31	1.9
18	2.1	13	49	12	96	17	38	4.2	3.2	.05	.19	.69
19	1.7	9.1	1830	28	64	15	30	4.2	3.2	.06	.31	1.7
20	1.1	7.0	1100	179	49	12	26	4.2	3.0	0	.30	.36
21	1.1	166	305	69	40	12	19	4.1	2.9	.01	.21	.30
22	1.2	37	95	41	32	13	15	4.1	2.2	2.5	.07	.36
23	1.4	314	65	32	28	11	13	4.0	1.8	6.8	.16	.31
24	2.2	270	50	27	24	10	11	4.0	1.7	5.0	.18	.95
25	1.9	73	37	24	22	9.7	10	4.0	1.7	4.3	.61	.63
26	2.8	103	29	49	21	10	9.6	3.9	1.6	5.1	.51	.60
27	5.3	197	27	32	28	8.4	9.0	3.9	1.4	4.5	.78	.70
28	7.6	59	21	68	21	16	8.5	3.9	.88	1.1	.43	.36
29	5.3	38	614	42	---	42	7.8	3.8	.76	1.3	0	.44
30	2.0	28	246	30	---	354	7.4	3.8	1.0	.90	0	1.2
31	1.8	---	193	26	---	1240	---	3.8	---	.54	.16	---
TOTAL	67.56	1562.9	4920.5	4016	3012	2481.1	3918.3	142.6	98.04	42.26	17.25	19.12
MEAN	2.18	52.1	159	130	108	80.0	131	4.60	3.27	1.36	.56	.64
MAX	8.2	314	1830	1820	1330	1240	748	7.0	17	6.8	3.4	3.8
MIN	0	1.2	8.5	12	11	8.4	7.4	2.0	.76	0	0	0
AC-FT	134	3100	9760	7970	5970	4920	7770	283	194	84	34	38
CAL YR 1981	TOTAL	7666.97	MEAN 21.0	MAX 1830	MIN 0	AC-FT 15210						
WTR YR 1982	TOTAL	20297.63	MEAN 55.6	MAX 1830	MIN 0	AC-FT 40260						

11458300 NAPA CREEK AT NAPA, CA

LOCATION.--Lat 38°18'07", long 122°18'10", in Napa Grant, Napa County, Hydrologic Unit 18050002, 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 mi² (38.6 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 32.60 ft (9.936 m) National Geodetic Vertical Datum of 1929 (levels by county of Napa).

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

AVERAGE DISCHARGE.--12 years, 18.1 ft³/s (0.513 m³/s), 13,110 acre-ft/yr (16.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,190 ft³/s (90.3 m³/s) Jan. 4, 1982, gage height, 12.76 ft (3.889 m), from rating curve extended above 1,950 ft³/s (55.2 m³/s); no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft³/s (17.0 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 23	1745	922 26.1	6.49 1.978	Feb. 15	2230	2,170 61.5	10.89 3.319
Dec. 19	1930	2,300 65.1	11.30 3.444	Mar. 31	0115	1,420 40.2	8.39 2.557
Dec. 29	1345	2,200 62.3	11.01 3.356	Apr. 2	1815	1,790 50.7	9.66 2.944
Jan. 1	0945	*3,190 90.3	12.76 3.889	Apr. 10	2300	984 27.9	6.74 2.054

Minimum daily, 0.01 ft³/s (<0.001 m³/s) several days during October.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.18	7.1	200	26	161	344	12	2.1	.49	.26	.17
2	.01	.16	6.0	150	26	103	663	11	1.9	.44	.26	.16
3	.02	.14	5.4	114	23	52	408	11	1.9	.39	.26	.17
4	.02	.14	4.9	1870	20	44	182	9.7	1.9	.36	.24	.17
5	.02	.14	4.4	515	17	38	116	9.1	1.9	.36	.22	.14
6	.02	.35	4.1	192	18	34	91	8.4	1.7	.36	.20	.11
7	2.2	.18	4.0	117	18	31	67	8.4	1.6	.36	.20	.12
8	.06	.14	3.7	81	16	30	54	8.1	1.3	.36	.20	.13
9	.03	.12	5.2	64	15	27	45	7.2	1.2	.36	.20	.14
10	.14	.10	7.1	93	14	35	247	6.6	1.3	.36	.20	.15
11	.04	.10	5.5	45	13	46	296	6.1	1.7	.46	.22	.13
12	.02	14	6.5	40	14	29	135	5.3	1.7	.36	.22	.11
13	.02	71	9.2	32	34	26	92	5.3	1.7	.36	.22	.10
14	.02	28	13	27	167	25	99	5.3	1.6	.36	.22	.11
15	.02	17	10	26	1140	23	69	5.2	1.3	.35	.22	2.3
16	.01	39	8.6	22	548	43	56	4.9	1.2	.31	.22	1.7
17	.01	44	6.7	19	179	43	48	4.6	1.2	.28	.20	.24
18	.01	9.7	57	18	112	34	41	4.4	1.2	.25	.20	.20
19	.01	5.2	1250	42	81	29	36	4.4	1.1	.22	.20	.16
20	.01	3.6	625	181	63	26	31	4.2	.94	.22	.20	.12
21	.01	123	128	68	52	23	28	3.7	.87	.23	.20	.09
22	.01	51	68	68	43	20	26	3.9	.79	.26	.20	.08
23	.01	190	44	41	37	19	24	3.8	.68	.28	.20	.08
24	.03	76	36	37	33	18	21	3.4	.55	.24	.20	.94
25	.01	19	31	38	30	16	19	2.8	.44	.20	.34	.18
26	.01	16	31	43	29	17	18	2.8	.40	.20	.53	.13
27	7.8	54	29	33	31	15	17	2.8	.40	.20	.32	.08
28	8.4	16	29	76	26	21	15	2.4	.40	.20	.22	.07
29	1.8	12	724	43	---	100	14	3.0	.40	.20	.19	.07
30	.38	8.6	190	35	---	354	13	3.2	.44	.20	.27	.06
31	.21	---	205	32	---	848	---	2.9	---	.23	.21	---
TOTAL	21.37	798.85	3558.4	4322	2825	2330	3315	175.9	35.81	9.45	7.24	8.41
MEAN	.69	26.6	115	139	101	75.2	111	5.67	1.19	.30	.23	.28
MAX	8.4	190	1250	1870	1140	848	663	12	2.1	.49	.53	2.3
MIN	.01	.10	3.7	18	13	15	13	2.4	.40	.20	.19	.06
AC-FT	42	1580	7060	8570	5600	4620	6580	349	71	19	14	17

CAL YR 1981 TOTAL 6132.00 MEAN 16.8 MAX 1250 MIN 0 AC-FT 12160
WTR YR 1982 TOTAL 17407.43 MEAN 47.7 MAX 1870 MIN .01 AC-FT 34530

NAPA RIVER BASIN

11458350 TULUCAY CREEK AT NAPA, CA

LOCATION.--Lat 38°17'09", long 122°16'29", in Tulucay Grant, Napa County, Hydrologic Unit 18050002, on left bank 150 ft (46 m) downstream from bridge on State Highways 12 and 29 in Napa.

DRAINAGE AREA.--12.6 mi² (32.6 km²).

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

REVISED RECORDS.--WDR CA-79-2: 1973 (P), 1975 (P), 1978 (P).

GAGE.--Water-stage recorder. Datum of gage is 3.65 ft (1.113 m) National Geodetic Vertical Datum of 1929 (levels by county of Napa).

REMARKS.--Records good. No regulation; some small diversions above station for irrigation of about 30 acres (121,000 m²).

AVERAGE DISCHARGE.--11 years, 11.0 ft³/s (0.312 m³/s), 7,970 acre-ft/yr (9.83 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,360 ft³/s (66.8 m³/s), Jan. 4, 1982, gage height, 7.38 ft (2.249 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s (11.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 19	2215	1,300 36.8	5.92 1.804	Mar. 31	0700	1,240 35.1	5.82 1.774
Dec. 29	1315	815 23.1	5.01 1.527	Apr. 3	0230	555 15.7	4.41 1.344
Jan. 4	1230	*2,360 66.8	7.38 2.249	Apr. 11	0230	445 12.6	4.10 1.250
Feb. 15	2030	1,030 29.2	5.44 1.658				

Minimum, no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.36	9.4	94	22	53	201	5.5	.86	.12	.26	0
2	0	.29	8.8	88	20	80	182	5.2	.79	.12	.29	0
3	0	.36	7.5	87	19	36	302	4.9	.71	.14	.29	0
4	0	.34	6.3	1610	18	26	112	4.9	.71	.15	.29	0
5	0	.37	5.7	576	17	21	60	4.6	.79	.15	.20	0
6	0	.41	5.0	142	16	18	40	4.6	.79	.15	.14	0
7	.13	.34	3.8	78	15	16	28	4.1	.64	.18	.14	0
8	0	.34	3.4	54	15	14	19	4.1	.58	.18	.18	0
9	0	.32	4.6	39	14	14	16	3.8	.48	.18	.23	0
10	.01	.29	4.6	31	14	14	82	3.0	.43	.18	.23	0
11	0	.29	3.6	26	14	25	259	3.2	.33	.18	.23	0
12	0	12	5.5	22	14	16	155	3.0	.31	.23	.20	0
13	0	49	6.8	19	20	14	69	2.1	.31	.23	.20	0
14	0	22	8.4	17	45	14	52	1.5	.40	.23	.18	0
15	0	7.4	9.2	16	451	13	31	1.4	.40	.29	.20	2.3
16	0	7.0	8.4	14	297	21	23	1.1	.35	.35	.15	.55
17	0	17	6.9	14	94	41	18	1.2	.30	.14	.18	.04
18	0	7.9	35	13	52	29	14	1.1	.30	.17	.20	.06
19	0	4.0	523	39	35	25	12	1.0	.29	.17	.23	.02
20	0	2.5	432	174	26	19	11	.78	.38	.16	.13	.01
21	0	87	138	89	21	16	9.7	.43	.51	.16	.09	.01
22	0	63	69	51	18	14	9.6	.35	.30	.16	.04	.03
23	0	133	46	37	15	12	9.1	.32	.16	.14	.04	.03
24	0	115	33	31	14	11	8.6	.60	.08	.15	.05	.40
25	0	46	27	27	13	9.7	7.9	1.7	.06	.19	.05	.28
26	0	42	25	40	13	10	7.7	1.5	.06	.19	.01	.07
27	2.3	95	24	29	13	9.3	7.2	1.5	.08	.16	0	.05
28	10	42	20	53	12	11	6.8	1.1	.09	.15	0	.06
29	.56	21	286	35	---	38	6.5	1.1	.09	.14	0	.07
30	.38	13	139	29	---	103	6.2	1.0	.09	.18	0	.07
31	.41	---	94	25	---	591	---	1.0	---	.23	0	---
TOTAL	13.79	789.51	1998.9	3599	1337	1334.0	1765.3	71.68	11.67	5.55	4.43	4.05
MEAN	.44	26.3	64.5	116	47.8	43.0	58.8	2.31	.39	.18	.14	.14
MAX	10	133	523	1610	451	591	302	5.5	.86	.35	.29	2.3
MIN	0	.29	3.4	13	12	9.3	6.2	.32	.06	.12	0	0
AC-FT	27	1570	3960	7140	2650	2650	3500	142	23	11	8.8	8.0

CAL YR 1981 TOTAL 3875.98 MEAN 10.6 MAX 523 MIN 0 AC-FT 7690
WTR YR 1982 TOTAL 10934.88 MEAN 30.0 MAX 1610 MIN 0 AC-FT 21690

11459500 NOVATO CREEK AT NOVATO, CA

LOCATION.--Lat 38°06'28", long 122°34'44", in Novato Grant, Marin County, Hydrologic Unit 18050002, on left bank in Novato, 100 ft (30 m) upstream from 7th Street Bridge.

DRAINAGE AREA.--17.6 mi² (45.6 km²).

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. Datum of gage is 14.76 ft (4.499 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 23, 1967, at site 0.6 mi (1.0 km) upstream at different datum.

REMARKS.--Records good. Flow regulated by Stafford Lake beginning Dec. 1, 1951, capacity, 4,500 acre-ft (5.55 hm³) since Oct. 18, 1954; contents, 1,760 acre-ft (2.17 hm³) Sept. 30, 1981, and 2,370 acre-ft (2.92 hm³) Sept. 30, 1982. Diversion from Stafford Lake for municipal water supply began Apr. 25, 1952, and amounted to 2,398 acre-ft (2.96 hm³) for the current year. No diversion from Russian River into Stafford Lake during current year.

COOPERATION.--Record of diversions furnished by North Marin County Water District.

AVERAGE DISCHARGE (adjusted for diversions).--36 years, 13.7 ft³/s (0.388 m³/s), 9,930 acre-ft/yr (12.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,000 ft³/s (142 m³/s) Jan. 4, 1982, gage height, 14.46 ft (4.407 m) from contracted opening and slope-area measurements of 3,800 ft³/s (108 m³/s) at the gage site, and slope-conveyance computations of 1,200 ft³/s (34.0 m³/s) of overflow about 1.0 mi (1.6 km) upstream which entered the adjoining Warner Creek basin; no flow many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,000 ft³/s (142 m³/s) Jan. 4, gage height, 14.46 ft (4.407 m); no flow several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982.
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.16	2.5	37	24	57	310	4.7	1.3	.96	.22	.38
2	.03	.13	2.1	39	19	69	265	4.4	1.3	.90	.22	.44
3	.01	.30	1.9	39	16	37	253	4.2	1.3	.83	.22	.39
4	0	.41	1.6	2850	13	29	138	4.0	1.3	.73	.19	.51
5	4.9	.17	1.5	1240	10	25	88	3.7	1.4	.65	.17	.55
6	.03	.11	1.4	279	8.6	21	65	3.6	1.5	.65	.19	.55
7	0	.10	1.3	114	7.8	20	50	3.6	1.6	.52	.15	.68
8	.10	.10	1.2	79	7.1	22	41	3.5	2.2	.46	.16	.75
9	.01	.12	4.4	59	6.3	18	35	3.3	1.3	.51	.18	.51
10	0	.23	1.6	45	5.4	18	145	3.2	1.2	.42	.19	.63
11	0	.24	1.1	33	4.7	21	254	3.1	1.3	.39	.16	.50
12	0	12	7.9	26	3.9	17	131	2.9	1.4	.38	.16	.41
13	0	65	3.2	21	8.4	14	82	2.7	1.5	.36	.17	.44
14	0	4.1	2.8	17	40	19	66	2.6	1.6	.34	.18	.71
15	0	10	2.5	15	378	14	49	2.3	1.6	.30	.20	.85
16	0	19	1.7	13	431	26	38	2.2	1.6	.28	.18	.95
17	0	9.3	1.5	11	149	75	32	2.3	1.6	.31	.18	1.0
18	0	1.6	51	12	82	39	28	2.2	1.6	.32	.16	1.1
19	0	1.1	347	27	58	28	22	1.9	1.6	.33	.17	.89
20	0	.91	212	120	46	23	17	1.8	1.5	.34	.17	.75
21	0	30	58	78	38	21	14	1.9	1.4	.31	.18	.51
22	0	7.5	26	40	31	18	12	1.7	1.3	.32	.18	.51
23	0	33	18	29	26	15	10	1.6	1.2	.30	.17	.62
24	0	17	14	24	23	14	8.4	1.6	1.3	.33	.18	6.5
25	0	6.9	12	21	20	13	7.5	1.5	.99	.32	.24	.37
26	0	12	11	32	19	14	7.3	1.4	1.1	.35	.25	.21
27	12	17	11	24	17	9.8	6.4	1.3	.98	.31	.32	.20
28	22	7.4	9.7	89	17	15	5.8	1.2	.95	.28	.40	.12
29	3.5	4.5	127	58	---	50	5.2	.87	1.1	.28	.38	.12
30	.62	3.0	42	38	---	172	5.0	1.2	.98	.25	.39	.13
31	.23	---	35	29	---	711	---	1.3	---	.24	.40	---
TOTAL	43.45	263.38	1013.9	5538	1509.2	1644.8	2190.6	77.77	41.00	13.27	6.71	22.28
MEAN	1.40	8.78	32.7	179	53.9	53.1	73.0	2.51	1.37	.43	.22	.74
MAX	22	65	347	2850	431	711	310	4.7	2.2	.96	.40	6.5
MIN	0	.10	1.1	11	3.9	9.8	5.0	.87	.95	.24	.15	.12
AC-FT	86	522	2010	10980	2990	3260	4350	154	81	26	13	44

CAL YR 1981 TOTAL 2771.35 MEAN 7.59 MAX 347 MIN 0 AC-FT 5500
WTR YR 1982 TOTAL 12364.36 MEAN 33.9 MAX 2850 MIN 0 AC-FT 24520

CORTE MADERA CREEK BASIN

11460000 CORTE MADERA CREEK AT ROSS, CA

LOCATION.--Lat 37°57'45", long 122°33'20", in Punta de Quentin Grant, Marin County, Hydrologic Unit 18050002, 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 mi² (46.9 km²).

PERIOD OF RECORD.--February 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 7.97 ft (2.429 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records good. Flow regulated by Phoenix Lake 1.7 mi (2.7 km) upstream, capacity, 612 acre-ft (755,000 m³). Diversion on tributary above station by Marin Municipal Water District.

AVERAGE DISCHARGE.--31 years, 27.9 ft³/s (0.790 m³/s), 20,210 acre-ft/yr (24.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,000 ft³/s (170 m³/s) Jan. 4, 1982, gage height, 19.81 ft (6.038 m), based on U.S. Army Corps of Engineers estimate of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 19	2045	3,170 89.8	16.25 4.953	Feb. 15	2230	1,570 44.5	12.39 3.776
Dec. 24	1400	2,030 57.5	13.61 4.148	Mar. 31	0615	2,150 60.9	13.93 4.246
Jan. 4	1515	*6,000 170	19.81 6.038	Apr. 10	1315	1,110 31.4	10.88 3.316

Minimum daily, 0.04 ft³/s (0.001 m³/s) Oct. 30 to Nov. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.25	.04	20	244	28	198	422	11	4.4	1.8	.18	.28
2	.13	.06	12	167	12	151	539	11	4.1	1.6	.20	.22
3	.31	.08	8.1	157	7.9	87	546	8.1	2.6	1.6	.30	.18
4	.17	.11	6.6	3840	5.5	64	214	5.8	2.5	1.6	.31	.17
5	.14	.09	5.7	982	3.1	48	129	5.5	2.6	1.6	.24	.17
6	.14	.10	5.3	217	1.2	42	69	5.4	2.5	1.2	.18	.17
7	2.5	.06	5.1	72	.94	35	47	5.2	2.5	.72	.18	.17
8	.05	.07	4.8	39	.73	30	37	5.3	2.7	.67	.18	.25
9	.05	.08	11	27	.73	24	31	5.9	2.8	.64	.18	.15
10	.07	.15	6.5	19	.78	33	366	8.2	2.8	.61	.26	.15
11	.05	.21	5.2	18	.92	57	556	6.6	2.5	.61	.24	.15
12	.06	13	12	11	.75	44	277	4.7	2.4	.59	.31	.14
13	.06	98	9.6	4.6	7.9	42	146	4.7	2.2	.53	.28	.14
14	.05	20	8.8	3.5	82	47	99	4.5	2.4	.69	.36	.16
15	.06	3.0	10	2.8	648	35	67	4.7	2.3	.64	.36	.32
16	.05	21	12	2.2	553	61	55	4.8	2.1	.64	.30	.16
17	.05	27	8.8	4.5	189	158	47	6.4	2.2	.66	.18	2.5
18	.06	5.9	289	7.4	99	101	41	6.2	2.1	.72	.28	.13
19	.06	1.3	1620	38	57	73	31	4.1	2.1	.67	.29	.09
20	.06	3.0	958	142	46	61	22	3.8	2.1	.66	.30	.09
21	.06	111	182	73	42	55	21	3.8	2.4	.68	.26	.09
22	.10	50	86	33	43	45	20	3.8	3.8	.64	.18	.11
23	.09	175	43	21	33	32	18	3.6	2.0	.67	.17	.11
24	.14	97	32	17	23	23	16	3.9	2.1	.75	.18	4.8
25	.18	41	27	16	19	21	14	4.8	2.2	.64	.24	.14
26	.31	25	22	49	18	21	11	3.4	2.0	.78	.30	.13
27	25	70	16	29	18	17	10	3.3	2.0	.83	.21	.13
28	15	54	15	148	24	33	10	3.3	1.9	.41	.21	.13
29	3.1	32	687	88	---	75	9.8	3.4	2.4	.23	.20	.12
30	.04	30	281	50	---	504	10	3.2	2.0	.23	.17	.13
31	.04	---	327	40	---	1180	---	2.9	---	.19	.18	---
TOTAL	48.43	878.25	4736.5	6562.0	1964.45	3397	3880.8	161.3	74.7	24.50	7.41	11.68
MEAN	1.56	29.3	153	212	70.2	110	129	5.20	2.49	.79	.24	.39
MAX	25	175	1620	3840	648	1180	556	11	4.4	1.8	.36	4.8
MIN	.04	.04	4.8	2.2	.73	17	9.8	2.9	1.9	.19	.17	.09
AC-FT	96	1740	9390	13020	3900	6740	7700	320	148	49	15	23

CAL YR 1981 TOTAL 9853.07 MEAN 27.0 MAX 1620 MIN 0 AC-FT 19540
WTR YR 1982 TOTAL 21747.02 MEAN 59.6 MAX 3840 MIN .04 AC-FT 43140

11460100 ARROYO CORTE MADERA DEL PRESIDIO AT MILL VALLEY, CA

LOCATION.--Lat 37°53'50", long 122°32'06", in Sausalito Grant, Marin County, Hydrologic Unit 18050002, on right bank near south boundary of town of Mill Valley, 1 mi (2 km) upstream from mouth.

DRAINAGE AREA.--4.69 mi² (12.15 km²).

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) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--15 years, 7.07 ft³/s (0.200 m³/s), 5,120 acre-ft/yr (6.31 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,180 ft³/s (33.4 m³/s) Jan. 21, 1970, gage height, 7.52 ft (2.292 m); no flow for many days in 1968, 1975-79.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 220 ft³/s (6.23 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 19	2230	836 23.7	7.26 2.213	Mar. 31	0530	321 9.09	5.57 1.698
Dec. 29	1445	422 12.0	5.97 1.820	Apr. 3	0145	266 7.53	5.28 1.609
Jan. 4	1430	*1,170 33.1	8.11 2.472	Apr. 10	1230	283 8.01	5.37 1.637
Feb. 15	0615	545 15.4	6.39 1.948				

Minimum daily, 0.05 ft³/s (0.001 m³/s) Oct. 5, 6.

REVISIONS.--The maximum discharges for water years 1978 through 1981 have been revised. The following figures supersede those published in the reports for 1978 through 1981.

Year	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Year	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
1978	Nov. 21	2115	204 5.78	4.98 1.518	1980	Dec. 21	0200	248 7.02	5.21 1.588
	Dec. 21	2215	258 7.31	5.26 1.603		Dec. 24	2230	215 6.09	5.04 1.536
	Jan. 14	1200	301 8.52	5.48 1.670		Dec. 30	0600	200 5.66	4.96 1.512
	Feb. 7	0945	246 6.97	5.20 1.585		Jan. 11	2315	595 16.9	6.55 1.996
1979	Jan. 11	0200	561 15.9	6.44 1.963		Feb. 19	0200	393 11.1	5.86 1.786
	Feb. 13	Unknown	297 8.41	5.46 1.664	1981	Jan. 27	0030	240 6.80	5.17 1.576
						Mar. 31	0530	224 6.34	5.09 1.551

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	.07	4.9	61	9.4	12	91	4.4	1.5	.92	.46	.20
2	.07	.06	4.1	41	7.2	16	90	4.2	1.5	.90	.44	.13
3	.06	.06	3.3	36	5.9	13	166	4.1	1.4	.83	.44	.13
4	.06	.06	2.6	711	5.0	10	59	4.0	1.3	.78	.39	.14
5	.05	.06	2.2	292	4.3	7.8	35	3.8	1.3	.79	.37	.16
6	.05	.06	2.1	76	3.8	6.1	23	3.6	1.3	.75	.36	.16
7	1.6	.06	2.0	36	3.5	5.6	17	3.6	1.3	.71	.34	.15
8	.09	.06	1.8	22	3.2	5.4	14	3.6	1.3	.69	.34	.12
9	.07	.06	2.6	16	2.8	4.4	12	3.4	1.3	.89	.32	.12
10	.45	.14	2.1	12	2.7	5.9	92	3.2	1.3	.76	.36	.14
11	.09	.10	1.9	9.3	2.5	12	112	2.8	1.3	.59	.30	.11
12	.07	20	3.4	7.2	2.3	9.5	79	2.8	1.3	.62	.31	.09
13	.06	23	8.7	5.8	23	8.4	43	2.6	1.3	.67	.32	.09
14	.06	7.3	14	5.0	162	9.4	35	2.4	1.2	.60	.38	.10
15	.06	3.1	16	4.6	386	6.8	26	2.3	1.2	.61	.39	.12
16	.06	3.0	12	4.1	217	11	21	2.3	1.3	.61	.33	.16
17	.06	3.1	8.4	3.7	51	19	17	2.2	1.6	.66	.26	.38
18	.08	1.9	64	3.5	25	24	14	2.1	1.1	.68	.26	.22
19	.08	1.4	282	7.0	15	17	11	2.4	1.3	.68	.29	.15
20	.08	1.2	311	13	11	12	10	2.0	1.0	.63	.28	.11
21	.07	13	61	11	8.4	9.1	8.6	1.9	.99	.62	.26	.10
22	.07	11	28	7.9	6.5	7.4	7.7	1.9	.98	.61	.25	.12
23	.08	9.7	18	6.5	5.2	6.2	7.0	1.9	1.0	.61	.23	.13
24	.08	12	12	5.7	4.6	5.5	6.4	1.8	1.0	.61	.24	1.3
25	.09	6.3	9.6	5.3	4.1	5.2	5.9	1.9	1.0	.61	.26	.27
26	.09	12	9.7	18	4.0	5.0	5.7	1.8	.96	.62	.22	.16
27	3.2	38	8.9	13	4.5	4.1	5.4	1.7	.93	.54	.21	.10
28	3.4	24	7.3	34	3.6	5.8	5.2	1.6	.93	.54	.21	.11
29	1.5	10	197	29	---	9.2	4.9	1.6	.93	.49	.23	.09
30	.24	6.3	91	18	---	26	4.5	1.6	.91	.47	.30	.09
31	.10	---	57	13	---	196	---	1.5	---	.46	.23	---
TOTAL	12.18	207.09	1248.6	1527.6	983.5	494.8	1028.3	81.0	35.73	20.55	9.58	5.45
MEAN	.39	6.90	40.3	49.3	35.1	16.0	34.3	2.61	1.19	.66	.31	.18
MAX	3.4	38	311	711	386	196	166	4.4	1.6	.92	.46	1.3
MIN	.05	.06	1.8	3.5	2.3	4.1	4.5	1.5	.91	.46	.21	.09
AC-FT	24	411	2480	3030	1950	981	2040	161	71	41	19	11
CAL YR 1981	TOTAL	2426.17	MEAN	6.65	MAX	311	MIN	.02	AC-FT	4810		
WTR YR 1982	TOTAL	5654.38	MEAN	15.5	MAX	711	MIN	.05	AC-FT	11220		

LAGUNITAS CREEK BASIN

11460600 LAGUNITAS CREEK NEAR POINT REYES STATION, CA

LOCATION.--Lat 39°04'49", long 122°47'00", in Nicasio (Black) Grant, Marin County, Hydrologic Unit 18050005, 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 mi² (211.6 km²).

PERIOD OF RECORD.--October 1974 to current year.

REVISED RECORDS.--WDR CA-79-2: 1975, 1978.

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 hm³), Kent Lake, capacity, 16,680 acre-ft (20.6 hm³), and Alpine Lake, capacity, 8,890 acre-ft (11.0 hm³), all of which divert water for domestic and industrial use in the county of Marin.

AVERAGE DISCHARGE.--8 years, 78.1 ft³/s (2.212 m³/s), 56,600 acre-ft/yr (69.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,100 ft³/s (626 m³/s) Jan. 4, 1982, gage height, 26.96 ft (8.217 m); minimum daily, 0.01 ft³/s (<0.001 m³/s) Sept. 26, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22,100 ft³/s (626 m³/s) Jan. 4, gage height, 26.96 ft (8.217 m); minimum daily, 1.70 ft³/s (0.048 m³/s) Oct. 2.

REVISIONS.--The maximum discharges for some years have been revised as shown in the following table. They supersede figures published in the reports for 1975, 1978, and 1980.

Water Year	Date	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
1975	Mar. 21, 1975	5,030	142	16.39	4.996
1978	Feb. 7, 1978	4,180	118	14.99	4.569
1980	Jan. 15, 1980	6,880	195	18.72	5.706

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	4.6	32	768	205	385	1750	30	8.1	6.1	4.3	2.9
2	1.7	4.0	26	614	170	496	1780	28	7.9	6.0	4.0	2.8
3	2.3	3.9	21	421	148	330	1940	26	8.0	5.9	4.0	2.7
4	2.6	3.9	17	10700	130	237	1100	23	8.4	5.9	4.0	2.6
5	2.5	3.6	15	4300	119	185	719	23	8.1	5.7	4.5	2.2
6	2.1	3.5	13	1490	112	149	438	21	8.1	5.5	4.3	2.1
7	3.9	3.5	12	958	106	126	396	20	7.9	5.5	4.2	2.1
8	3.6	3.4	11	775	100	120	355	19	7.9	5.5	4.1	2.5
9	2.7	3.4	11	688	97	104	291	18	7.8	5.6	4.1	2.8
10	2.5	3.2	18	652	95	104	791	17	7.7	5.3	4.0	2.8
11	2.6	3.5	18	619	96	137	1990	15	8.0	5.3	3.9	2.9
12	2.5	9.4	20	636	110	133	1210	14	8.0	5.3	3.8	2.6
13	2.5	43	20	728	290	147	711	13	7.7	4.8	3.8	2.6
14	2.4	73	22	679	1200	193	472	13	7.3	4.6	3.7	3.1
15	2.4	21	22	640	2300	201	379	13	6.8	4.6	3.7	3.4
16	2.3	48	22	595	2700	282	319	12	6.7	4.3	3.6	3.4
17	2.2	122	19	546	1100	580	250	11	6.8	4.4	3.5	3.8
18	2.3	43	157	457	620	533	221	10	6.7	5.0	3.5	3.7
19	2.4	23	2550	288	485	463	184	9.7	6.7	4.7	3.4	2.9
20	2.4	15	1950	687	511	446	105	9.0	6.7	4.6	3.4	2.9
21	2.4	108	654	584	161	416	87	8.7	6.9	4.7	3.2	2.9
22	2.2	161	364	270	132	309	73	8.8	6.8	4.7	3.2	3.4
23	2.0	245	222	183	110	237	65	8.4	6.4	4.4	3.1	4.6
24	1.8	326	166	136	97	247	59	7.6	6.4	4.5	3.0	7.4
25	2.5	97	131	125	85	211	52	7.2	6.5	4.5	3.5	4.6
26	2.4	65	114	219	77	219	46	7.2	6.2	4.5	3.5	3.8
27	2.9	78	143	203	77	202	44	7.0	6.1	4.4	3.5	3.4
28	16	89	114	574	69	224	40	6.6	6.1	4.3	3.4	3.4
29	13	57	1620	587	---	314	37	7.4	6.2	4.2	3.5	3.3
30	8.7	41	1010	350	---	1030	35	8.5	6.2	4.3	3.5	3.6
31	5.5	---	694	260	---	4120	---	8.3	---	4.3	3.2	---
TOTAL	109.1	1704.9	10208	30732	11502	12880	15939	430.4	215.1	153.4	114.4	97.2
MEAN	3.52	56.8	329	991	411	415	531	13.9	7.17	4.95	3.69	3.24
MAX	16	326	2550	10700	2700	4120	1990	30	8.4	6.1	4.5	7.4
MIN	1.7	3.2	11	125	69	104	35	6.6	6.1	4.2	3.0	2.1
AC-FT	216	3380	20250	60960	22810	25550	31610	854	427	304	227	193

CAL YR 1981 TOTAL 21695.48 MEAN 59.4 MAX 2550 MIN .78 AC-FT 43030
WTR YR 1982 TOTAL 84085.50 MEAN 230 MAX 10700 MIN 1.7 AC-FT 166800

11460800 WALKER CREEK NEAR TOMALES, CA

LOCATION.--Lat 38°12'35", long 122°51'35", in Nicasio Grant, Marin County, Hydrologic Unit 18050005, on left bank 1,300 ft (396 m) upstream from Chileno Creek, and 3.5 mi (5.6 km) southeast of Tomales.

DRAINAGE AREA.--40.1 mi² (103.8 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 56.74 ft (17.294 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for period of no gage height record, Jan. 4-18, which are fair. Flow affected by regulation and diversions, beginning February 1979, by SoulaJule Reservoir on Arroyo Sausal, a tributary to Walker Creek. Reservoir capacity 10,570 acre-ft (13.0 hm³). There are small diversions above station for irrigation of about 50 acres (202,000 m²) and stock watering.

EXTREMES FOR PERIOD OF RECORD (Prior to regulation by SoulaJule Reservoir).--Maximum discharge, 5,420 ft³/s (153 m³/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 each year. 1979 to current year: Maximum discharge, 18,800 ft³/s (532 m³/s) Jan. 4, 1982, gage height, 31.37 ft (9.560 m) on basis of rating curve extended above 2,300 ft³/s (65.1 m³/s) on basis of slope-area measurement; minimum, no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,800 ft³/s (532 m³/s) Jan. 4, gage height, 31.37 ft (9.560 m) based on rating curve extended above 2,300 ft³/s (65.1 m³/s) on basis of slope-area measurement; minimum daily, 2.4 ft³/s (0.068 m³/s) several days during May and June.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	5.8	21	607	80	155	775	12	2.4	4.9	5.1	4.8
2	6.3	5.8	20	525	58	139	998	10	2.4	4.8	5.2	4.8
3	6.4	5.8	19	371	39	97	1000	9.3	2.4	4.6	5.2	4.8
4	6.2	5.8	19	8250	28	72	433	8.5	2.4	4.6	5.2	4.8
5	6.1	5.8	18	3900	19	62	249	8.0	2.7	4.6	5.2	4.8
6	6.3	5.8	17	1500	11	55	182	6.6	2.7	4.6	5.8	4.9
7	9.6	5.9	17	500	7.7	51	127	6.0	2.7	4.5	5.8	4.6
8	6.2	6.0	16	275	6.1	52	93	5.5	2.7	4.5	5.9	4.6
9	5.8	6.3	16	160	5.0	41	75	4.7	2.7	4.5	6.2	4.7
10	6.6	6.7	18	110	4.1	45	457	4.3	2.7	4.5	6.0	4.8
11	5.7	6.9	17	80	4.0	51	1120	4.3	3.8	4.5	6.1	4.6
12	5.5	12	17	60	3.7	46	492	4.1	4.6	4.4	5.8	4.7
13	5.7	20	18	47	17	35	268	3.8	4.2	4.4	5.7	4.8
14	5.8	18	28	39	106	51	212	3.6	4.2	4.3	5.8	5.1
15	5.9	13	29	33	2090	43	143	3.5	4.2	4.4	5.6	5.1
16	6.0	22	26	28	1600	66	100	3.3	4.5	4.3	5.4	5.0
17	6.5	41	21	25	506	148	80	3.3	4.6	4.4	5.4	5.1
18	6.6	18	368	32	276	123	67	3.5	4.7	4.3	5.2	5.2
19	6.7	14	2950	43	177	84	56	2.7	4.5	4.5	5.2	5.1
20	6.6	12	3250	227	122	67	48	2.4	4.5	4.5	5.1	5.1
21	6.8	94	675	229	93	56	40	3.2	4.5	4.6	5.0	5.1
22	6.8	79	288	118	73	46	33	3.4	4.5	4.6	5.0	7.3
23	6.7	182	180	95	60	38	29	3.0	4.4	4.7	5.1	14
24	7.0	145	135	80	51	30	26	2.8	4.3	4.7	5.2	5.8
25	6.9	53	109	69	46	22	23	2.6	4.3	4.9	5.0	5.0
26	6.8	41	104	105	42	22	20	2.7	4.2	5.0	4.9	5.0
27	9.3	68	128	88	38	16	18	2.6	4.2	5.1	4.8	5.2
28	13	43	101	293	34	31	16	2.4	4.9	5.2	4.7	5.3
29	10	26	1590	226	---	75	14	2.4	5.0	5.5	4.8	11
30	6.7	21	836	141	---	417	13	2.5	5.0	5.5	4.8	4.9
31	6.4	---	569	106	---	2300	---	2.4	---	5.3	4.8	---
TOTAL	212.8	988.6	11620	18362	5596.6	4536	7207	139.4	114.9	145.2	165.0	166.0
MEAN	6.86	33.0	375	592	200	146	240	4.50	3.83	4.68	5.32	5.53
MAX	13	182	3250	8250	2090	2300	1120	12	5.0	5.5	6.2	14
MIN	5.5	5.8	16	25	3.7	16	13	2.4	2.4	4.3	4.7	4.6
AC-FT	422	1960	23050	36420	11100	9000	14300	276	228	288	327	329
CAL YR 1981 TOTAL	17998.9			MEAN 49.3	MAX 3250	MIN 1.5	AC-FT 35700					
WTR YR 1982 TOTAL	49253.5			MEAN 135	MAX 8250	MIN 2.4	AC-FT 97690					

11461000 RUSSIAN RIVER NEAR UKIAH, CA

LOCATION.--Lat 39°11'44", long 123°11'38", in Yokaya Grant, Mendocino County, Hydrologic Unit 18010110, 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 mi² (259 km²).

PERIOD OF RECORD.--August 1911 to September 1913, October 1952 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 599.22 ft (182.642 m) National Geodetic Vertical Datum of 1929. 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 except those for period of no gage-height record May 21 to Sept. 17, which are fair. No regulation. Diversions above station for irrigation of about 1,000 acres (4.05 km²).

AVERAGE DISCHARGE.--32 years, 177 ft³/s (5.013 m³/s), 128,200 acre-ft/yr (158 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,900 ft³/s (535 m³/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, 1975-81.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft³/s (113 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 15	1530	5,850 166	15.10 4.602	Jan. 4	0815	4,900 139	14.08 4.292
Nov. 23	0900	*11,300 320	19.65 5.989	Feb. 15	2115	10,900 309	19.37 5.904
Dec. 19	1715	9,720 275	18.39 5.605	Mar. 31	0430	5,980 169	15.15 4.618
Dec. 29	1200	6,180 175	15.34 4.676				

Minimum daily, 0.05 ft³/s (0.001 m³/s) Aug. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	14	148	1170	292	895	1250	90	25	10	1.8	.11
2	.40	11	124	1150	246	779	1990	87	22	8.8	1.6	.10
3	.44	9.8	106	878	215	555	1430	81	21	8.0	1.5	.10
4	.43	9.1	92	2670	189	421	988	75	20	7.4	1.4	.11
5	.43	8.6	80	1220	164	328	861	69	19	6.8	1.3	.13
6	1.2	8.5	167	768	146	271	780	63	19	6.6	1.3	.13
7	4.6	7.8	270	545	134	237	600	60	18	8.2	1.2	.13
8	3.5	7.3	157	416	124	222	476	56	16	6.5	1.1	.12
9	2.5	6.9	364	335	116	198	387	51	14	3.8	1.0	.12
10	1.6	8.1	426	286	108	265	925	48	13	3.8	.86	.12
11	1.4	14	269	248	100	239	1780	48	12	3.9	.70	.12
12	1.2	206	526	213	91	191	1220	47	12	4.0	.57	.12
13	1.2	427	861	182	331	170	983	41	14	2.5	.45	.11
14	1.1	300	801	163	2010	166	1030	39	14	3.7	.35	.11
15	1.1	1710	789	146	6140	150	716	39	13	3.6	.25	7.0
16	1.0	1920	509	132	2930	194	537	36	12	4.6	.20	6.6
17	1.0	977	351	121	1220	168	429	35	11	4.0	.15	5.7
18	.96	334	3570	142	741	146	343	34	11	3.2	.12	2.9
19	.95	179	5660	277	526	134	288	32	10	2.9	.10	2.3
20	.94	129	2890	496	389	121	249	29	9.4	2.9	.05	1.5
21	.92	1270	1840	425	321	109	215	28	8.8	3.5	.13	.90
22	.90	513	1040	289	269	101	190	27	8.3	3.9	.23	.47
23	.90	4440	696	453	232	96	171	25	8.8	2.7	.20	.53
24	.90	1100	481	421	207	91	153	24	6.0	3.2	.13	.64
25	.90	527	335	352	187	89	142	23	5.0	2.7	.23	.64
26	.90	550	319	1030	178	86	132	23	4.8	2.3	.21	.64
27	25	558	407	690	181	81	119	22	4.6	2.0	.18	.59
28	250	344	310	1230	163	140	112	21	8.0	1.9	.15	.55
29	110	246	2540	665	---	503	105	20	11	1.2	.14	.84
30	45	184	1220	479	---	2920	97	25	10	1.4	.13	.82
31	22	---	1060	361	---	3560	---	28	---	1.2	.12	---
TOTAL	483.67	16019.1	28408	17953	17950	13626	18698	1326	380.7	131.2	17.85	34.25
MEAN	15.6	534	916	579	641	440	623	42.8	12.7	4.23	.58	1.14
MAX	250	4440	5660	2670	6140	3560	1990	90	25	10	1.8	7.0
MIN	.30	6.9	80	121	91	81	97	20	4.6	1.2	.05	.10
AC-FT	959	31770	56350	35610	35600	27030	37090	2630	755	260	35	68

CAL YR 1981	TOTAL	72496.46	MEAN 199	MAX 5660	MIN 0	AC-FT 143800
WTR YR 1982	TOTAL	115027.77	MEAN 315	MAX 6140	MIN .05	AC-FT 228200

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, Hydrologic Unit 18010110, 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 mi² (238.8 km²).

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) National Geodetic Vertical Datum of 1929. 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 fair. Flow greatly affected by diversion from Eel River through Potter Valley powerhouse (station 11471000). Diversion for irrigation of about 8,000 acres (32.4 km²) above station.

AVERAGE DISCHARGE.--41 years, 337 ft³/s (9.544 m³/s), 244,200 acre-ft/yr (301 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,700 ft³/s (530 m³/s) Dec. 22, 1964, gage height, 20.21 ft (6.160 m) site then in use; minimum daily, 2.0 ft³/s (0.057 m³/s) July 13, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,300 ft³/s (93.5 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 15	1715	5,540 157	15.08 4.596	Jan. 4	0830	5,710 162	15.27 4.654
Nov. 23	1000	*12,000 340	21.00 6.401	Feb. 15	Unknown	6,310 179	15.90 4.846
Dec. 19	1815	7,970 226	17.54 5.346	Mar. 31	0435	9,230 261	18.68 5.694
Dec. 29	1200	6,190 175	15.78 4.810	Apr. 2	0945	4,410 125	13.77 4.197

Minimum daily, 37 ft³/s (1.05 m³/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	296	276	372	1130	500	950	1380	389	324	126	115	128
2	305	220	361	1030	455	1040	2510	385	321	129	123	126
3	302	281	358	930	420	719	1610	375	319	132	119	121
4	299	317	350	2910	390	618	1310	352	309	138	116	121
5	299	317	344	1160	360	568	1150	346	298	135	115	122
6	302	260	377	841	340	532	1010	351	289	129	115	126
7	311	204	401	708	323	516	825	348	292	138	111	156
8	321	279	359	630	310	513	740	341	293	132	107	274
9	305	273	514	585	300	494	678	346	281	134	116	276
10	311	277	506	552	292	597	1000	346	281	129	133	285
11	308	241	412	520	285	682	1780	337	283	119	124	292
12	299	478	623	497	285	548	1150	324	297	114	123	306
13	293	611	839	468	560	513	978	319	302	111	126	310
14	293	504	748	453	1500	556	1000	308	327	110	126	306
15	299	1870	700	439	3700	509	807	314	296	111	123	310
16	299	2050	542	428	1700	618	709	321	283	111	118	313
17	310	1070	471	422	1100	548	648	317	286	118	119	336
18	314	503	3650	446	840	509	602	311	294	115	122	336
19	319	387	4510	610	704	486	569	324	305	118	114	327
20	318	382	2420	770	625	475	532	312	315	117	106	326
21	316	1740	1400	652	579	464	509	309	341	119	112	324
22	318	598	900	524	536	453	490	307	317	122	112	321
23	341	4720	734	576	506	446	473	304	307	119	114	322
24	335	1080	627	548	486	435	462	302	317	122	115	323
25	333	605	571	524	470	428	450	293	311	116	122	315
26	330	679	543	576	467	422	438	293	305	110	131	316
27	359	654	527	758	470	422	423	304	307	109	130	234
28	532	477	514	1130	455	540	415	305	310	117	127	52
29	413	412	2420	704	---	1030	402	319	277	111	126	48
30	329	388	962	610	---	3760	367	321	143	112	129	37
31	327	---	1040	552	---	3880	---	319	---	111	128	---
TOTAL	10036	22153	29095	22683	18958	24271	25417	10142	8930	3734	3717	7189
MEAN	324	738	939	732	677	783	847	327	298	120	120	240
MAX	532	4720	4510	2910	3700	3880	2510	389	341	138	133	336
MIN	293	204	344	422	285	422	367	293	143	109	106	37
AC-FT	19910	43940	57710	44990	37600	48140	50410	20120	17710	7410	7370	14260

CAL YR 1981	TOTAL	127581	MEAN	350	MAX	4720	MIN	48	AC-FT	253100
WTR YR 1982	TOTAL	186325	MEAN	510	MAX	4720	MIN	37	AC-FT	369600

RUSSIAN RIVER BASIN

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 1964-79.

SEDIMENT RECORDS: Water years 1964, 1967-68.

TURBIDITY: Water years 1964-71.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: March 1964 to February 1979.

SEDIMENT RECORDS: March to September 1964, October 1966 to September 1968.

COOPERATION.--Chemical-quality data furnished by Corps of Engineers.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)
OCT							
16...	1250	296	182	6.6	15.0	7.0	10.2
30...	1015	314	208	7.6	12.0	24	11.3
NOV							
16...	1040	1560	108	6.8	10.0	90	9.9
DEC							
07...	1330	385	156	7.3	10.0	29	10.6
28...	1145	501	110	7.3	10.0	45	12.0
JAN							
12...	1330	494	187	6.3	7.0	22	11.8
29...	1100	711	182	--	6.0	18	12.8
FEB							
12...	1030	395	166	7.0	5.0	10	12.6
26...	1030	457	166	7.2	8.0	40	11.3
MAR							
17...	0930	552	161	6.8	8.0	19	11.4
APR							
06...	1000	1010	156	--	7.0	34	11.8
23...	1020	479	164	7.3	11.0	22	11.6
MAY							
07...	0930	359	175	7.3	13.0	15	--
21...	1000	312	164	7.6	16.0	5.7	10.2
JUN							
04...	1045	314	172	7.3	16.0	3.0	9.5
18...	1100	291	166	7.2	17.0	9.5	9.0
JUL							
06...	0900	129	177	7.0	16.0	5.3	8.8
16...	1000	107	158	7.1	16.0	4.0	9.8
30...	1030	113	176	8.1	16.0	3.7	--
AUG							
13...	0955	133	164	7.8	17.0	4.7	8.2
26...	1345	133	150	7.6	20.0	3.0	8.0
SEP							
10...	0950	285	160	7.5	16.0	5.5	7.4
23...	1050	321	184	7.3	18.0	4.8	9.4

11461800 LAKE MENDOCINO NEAR UKIAH, CA

LOCATION.--Lat 39°11'53", long 123°10'50", in Yokaya Grant, Mendocino County, Hydrologic Unit 18010110, 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 mi² (272 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to current year. Records prior to October 1965 in files of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Reservoir is formed by earthfill dam; storage began in November 1958. Capacity based on 1975 resurvey, new capacity table put into use July 1, 1977, 122,100 acre-ft (152 hm³) between elevations 637.0 ft (194.16 m), invert of outlet tunnel and 764.8 ft (233.11 m), spillway crest, NGVD. 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, including current year extremes, represent contents at 2400 hours.

COOPERATION.--Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 114,800 acre-ft (142 hm³) Jan. 24, 1970, elevation, 760.86 ft (231.910 m); minimum, 12,070 acre-ft (14.9 hm³) Nov. 4, 1977, elevation, 687.15 ft (209.443 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 96,200 acre-ft (119 hm³) Apr. 3, elevation, 751.01 ft (228.908 m); minimum, 40,600 acre-ft (50.1 hm³) Oct. 1, elevation, 717.35 ft (218.648 m).

Capacity table (elevation, in feet NGVD, and contents, in acre-feet)

637	0	665	2810	690	13800	730	59500
645	152	670	4290	695	17300	740	76400
650	432	675	6110	700	21200	750	94400
655	914	680	8280	710	31300	760	113000
660	1700	685	10800	720	44300	764.8	122100

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40600	50400	74800	74600	74000	73400	91600	89800	91400	90800	83700	72000
2	40800	50500	74100	76100	73200	74000	95000	89800	91400	90700	83400	71600
3	40900	50800	73400	75900	72900	74000	96200	89800	91400	90600	83000	71300
4	41100	51100	73100	80100	72900	73900	95400	89700	91400	90500	82600	71000
5	41200	51400	73000	79700	72800	73700	93300	89700	91400	90400	82300	70800
6	41500	51700	73000	77600	72800	73500	90800	89600	91400	90300	81900	70500
7	41700	51800	73000	75400	72700	73200	88200	89600	91400	90300	81600	70400
8	41900	52100	72900	73600	72600	73200	87400	89500	91300	90100	81200	70400
9	42100	52300	73200	73600	72500	73200	87200	89400	91300	90000	80800	70500
10	42400	52600	73400	73400	72400	73600	88000	89300	91200	89900	80400	70600
11	42500	52900	73300	73200	72400	74200	89400	89200	91100	89700	80000	70800
12	42700	53700	73800	73000	72400	74600	88300	89200	91100	89600	79700	70900
13	43000	55200	74700	72600	72100	75000	87400	89100	91100	89400	79300	71100
14	43300	56100	74700	72500	76200	75400	87200	89000	91200	89200	78900	71200
15	43500	60600	74200	72000	88200	75800	87400	89000	91200	88900	78500	71400
16	43800	63600	73400	72300	89500	76200	87700	88900	91200	88600	78100	71700
17	44100	65700	72800	72200	83500	76500	87900	89100	91200	88300	77700	71900
18	44300	66700	80500	72200	77100	77000	88000	89400	91200	88000	77300	72100
19	44600	67400	90000	72500	73700	77300	88300	89800	91100	87800	76900	72300
20	44900	69100	93000	73100	73400	77800	88800	90100	91100	87500	76500	72500
21	45200	71800	89800	73400	73100	78200	89300	90400	91100	87200	76100	72700
22	45500	72900	83600	73100	73000	78600	89700	90700	91100	87000	75700	72900
23	45800	82500	77100	73300	72900	79000	89900	91100	91000	86700	75300	73100
24	46100	82500	74600	73500	72900	79400	90100	91400	91100	86300	74900	73400
25	46400	80200	74400	73600	72800	78500	90200	91400	91100	86000	74500	73500
26	46700	78300	74100	74300	72800	75900	90300	91400	91100	85700	74200	73700
27	47500	77300	73900	74500	72800	74000	90300	91300	91100	85300	73800	73700
28	48300	76800	73600	75200	72800	73600	90100	91400	91100	85000	73400	73400
29	49100	76300	77400	74900	---	75400	90000	91400	91100	84700	73000	73100
30	49600	75500	76300	74900	---	83500	89900	91400	90900	84400	72700	72700
31	50000	---	75600	74700	---	91900	---	91400	---	84100	72300	---
MAX	50000	82500	93000	80100	89500	91900	96200	91400	91400	90800	83700	73700
MIN	40600	50400	72800	72000	72100	73200	87200	88900	90900	84100	72300	70400
a	723.93	739.47	739.51	739.03	737.96	748.64	747.51	748.35	748.08	744.30	737.67	737.85
b	+9500	+25500	+100	-900	-1900	+19100	-2000	+1500	-500	-6800	-11800	+400

CAL YR 1981 b +3500

WTR YR 1982 b +32200

a Elevation, in feet NGVD, at end of month.

b Change in contents, in acre-feet.

RUSSIAN RIVER BASIN

11461800 LAKE MENDOCINO NEAR UKIAH, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964-68, 1977 to current year.

CHEMICAL ANALYSES: Water year 1977 to current year.

WATER TEMPERATURES: Water years 1966-68.

SEDIMENT RECORDS: Water years 1964-68.

TURBIDITY: Water years 1964-68.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: December 1965 to September 1968.

SEDIMENT RECORDS: February 1964 to September 1968.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	LIGHT INCI- DENT PERCENT REMAIN- ING AT DEPTH	LIGHT TRAN- SMIS- SION 1 METER PATH- LENGTH (%)	LIGHT, ATTENU- ATION COEFFI- CIENT (ALPHA/ METER)
DEC											
08...	1055	.10	148	6.9	12.2	--	8.8	84	78	.00	12.98
08...	1057	.50	148	7.0	12.1	--	8.8	84	30	.00	13.77
08...	1058	1.0	148	7.0	12.1	--	8.8	84	7.9	.00	14.03
08...	1059	1.5	--	--	--	--	--	--	2.2	--	--
08...	1100	2.0	148	7.1	12.1	--	9.0	86	1.3	.00	14.03
08...	1101	2.2	--	--	--	--	--	--	1.0	--	--
08...	1102	3.0	148	7.2	12.1	--	9.1	87	--	.00	14.03
08...	1104	4.0	149	7.1	12.1	--	9.0	86	--	.00	14.03
08...	1106	5.0	149	7.2	12.1	--	9.3	89	--	.00	14.03
08...	1108	6.0	149	7.2	12.1	--	9.2	88	--	.00	14.03
08...	1109	7.0	149	7.2	12.1	--	9.5	90	--	.00	13.90
08...	1110	8.0	149	7.2	12.1	--	9.5	90	--	.00	13.90
08...	1111	9.0	148	7.2	12.1	--	9.4	90	--	.00	13.90
08...	1112	10.0	148	7.2	12.1	--	8.8	84	--	.00	13.90
08...	1113	11.0	148	7.2	12.1	--	9.1	87	--	.00	13.90
08...	1114	12.0	148	7.2	12.1	--	9.1	87	--	.00	13.90
08...	1115	13.0	148	7.2	12.1	--	9.1	87	--	.00	13.77
08...	1116	14.0	148	7.2	12.0	--	9.1	87	--	.00	12.98
08...	1117	15.0	147	7.2	12.0	--	8.8	84	--	.00	14.92
08...	1118	16.0	147	7.2	11.7	--	9.0	85	--	.00	14.60
08...	1119	17.0	147	7.2	11.5	--	8.9	83	--	.00	14.45
08...	1120	18.0	147	7.2	11.4	--	9.0	84	--	.00	14.30
08...	1122	19.0	147	7.2	11.2	--	8.9	83	--	.00	14.30
08...	1123	20.0	147	7.2	11.1	--	8.9	82	--	.00	15.65
08...	1124	21.0	146	7.2	11.1	--	8.9	82	--	.00	15.27
08...	1125	22.0	146	7.2	11.0	--	8.9	82	--	.00	15.09
08...	1126	23.0	146	7.2	10.9	--	9.1	84	--	.00	15.27
08...	1127	24.0	145	7.2	10.9	--	8.8	81	--	.00	16.07
08...	1128	25.0	145	7.2	10.8	--	9.0	83	--	.00	16.07
08...	1130	26.0	145	7.2	10.8	--	9.1	84	--	.00	16.30
08...	1131	27.0	144	7.2	10.8	--	9.0	83	--	.00	16.54
08...	1132	28.0	144	7.2	10.8	--	9.0	83	--	.00	16.80
08...	1134	29.0	144	7.2	10.7	--	9.0	83	--	.00	17.07
MAR											
23...	1113	.10	--	--	--	--	--	--	86	.04	7.95
23...	1114	.50	130	8.2	14.4	745	10.9	109	29	.02	8.55
23...	1115	1.0	136	8.2	12.6	--	11.6	112	12	.01	9.59
23...	1116	1.5	--	--	--	--	--	--	5.0	--	--
23...	1117	2.0	137	8.2	11.6	--	12.0	113	2.0	.02	8.76
23...	1118	2.4	--	--	--	--	--	--	1.0	--	--

11461800 LAKE MENDOCINO NEAR UKIAH, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	LIGHT INCID- ENT PERCENT REMAIN- ING AT DEPTH	LIGHT TRANS- MISSION 1 METER PATH- LENGTH (%)	LIGHT ATTENU- ATION COEFFI- CIENT (ALPHA/ METER)
MAY										
23...	1119	3.0	136	8.1	11.1	12.3	114	--	.02	8.65
23...	1120	4.0	137	8.0	11.0	12.6	117	--	.02	8.69
23...	1122	5.0	136	7.9	10.8	12.7	118	--	.02	8.65
23...	1124	6.0	136	7.8	10.8	13.0	120	--	.02	8.69
23...	1125	7.0	135	7.8	10.7	13.2	121	--	.02	8.72
23...	1127	8.0	135	7.7	10.6	13.3	122	--	.01	8.87
23...	1129	9.0	135	7.7	10.6	13.4	123	--	.01	8.90
23...	1130	10.0	136	7.7	10.5	13.6	125	--	.01	9.72
23...	1132	11.0	135	7.6	10.2	13.6	124	--	.00	10.05
23...	1133	12.0	136	7.6	10.1	13.6	124	--	.00	10.36
23...	1134	13.0	137	7.6	9.9	14.1	127	--	.00	10.87
23...	1136	14.0	135	7.6	9.9	13.8	124	--	.00	11.90
23...	1137	15.0	135	7.5	9.8	14.0	126	--	.00	12.32
23...	1139	16.0	136	7.5	9.7	13.7	123	--	.00	12.68
23...	1140	17.0	136	7.5	9.7	13.6	123	--	.00	12.88
23...	1141	18.0	136	7.5	9.6	13.3	120	--	.00	12.88
23...	1143	19.0	138	7.5	9.6	12.5	113	--	.00	12.78
23...	1144	20.0	138	7.4	9.5	12.5	112	--	.00	12.88
23...	1145	21.0	139	7.4	9.5	12.1	108	--	.00	13.08
23...	1147	22.0	138	7.4	9.5	11.8	105	--	.00	13.30
23...	1149	23.0	138	7.4	9.4	11.1	99	--	.00	13.77
23...	1150	24.0	138	7.4	9.4	10.8	96	--	.00	13.90
23...	1152	25.0	139	7.4	9.3	10.5	94	--	.00	14.30
23...	1154	26.0	137	7.4	9.3	10.2	91	--	.00	15.27
23...	1155	27.0	137	7.3	9.3	10.0	89	--	.00	15.65
23...	1156	28.0	137	7.3	9.3	9.8	88	--	.00	15.85
23...	1157	29.0	137	7.3	9.3	9.5	85	--	.00	16.07
JUN										
23...	1122	1.0	154	8.4	24.5	8.7	107	83	24	1.43
23...	1123	1.50	154	8.4	24.5	8.9	110	66	23	1.48
23...	1124	1.0	155	8.4	24.4	9.1	111	47	21	1.54
23...	1125	1.5	--	--	--	--	--	42	--	--
23...	1126	2.0	155	8.4	24.1	9.3	113	33	21	1.54
23...	1127	2.5	--	--	--	--	--	24	--	--
23...	1128	3.0	153	8.5	24.0	9.9	121	20	23	1.48
23...	1129	3.5	--	--	--	--	--	16	--	--
23...	1130	4.0	154	8.4	23.4	10.3	124	12	23	1.48
23...	1131	4.5	--	--	--	--	--	11	--	--
23...	1132	5.0	154	8.2	23.1	10.5	125	7.8	24	1.43
23...	1133	5.5	--	--	--	--	--	6.3	--	--

RUSSIAN RIVER BASIN

11461800 LAKE MENDOCINO NEAR UKIAH, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SAMPLING DEPTH (M)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	BARO- METRIC PRESSURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATURATION)	LIGHT INTENSITY PERCENT REMAINING AT DEPTH	LIGHT TRANSMISSION 1 METER PATH- LENGTH (%)	LIGHT, ATTENUATION COEFFICIENT (ALPHA/ METER)
JUN											
23...	1134	6.0	157	8.1	21.5	--	10.6	123	5.0	24	1.43
23...	1135	6.5	--	--	--	--	--	--	4.3	--	--
23...	1136	7.0	155	7.9	20.7	--	10.1	115	3.3	21	1.54
23...	1137	7.5	--	--	--	--	--	--	2.8	--	--
23...	1138	8.0	155	7.8	19.6	--	8.6	96	2.3	25	1.37
23...	1139	8.5	--	--	--	--	--	--	1.8	--	--
23...	1140	9.0	153	7.6	18.9	--	7.9	87	1.4	24	1.43
23...	1141	9.5	--	--	--	--	--	--	1.2	--	--
23...	1142	9.8	--	--	--	--	--	--	1.0	--	--
23...	1143	10.0	157	7.5	17.6	--	6.8	73	--	21	1.54
23...	1144	11.0	153	7.4	16.7	--	4.9	52	--	7.3	2.62
23...	1145	12.0	154	7.4	14.8	--	4.6	46	--	4.9	3.02
23...	1146	13.0	150	7.2	14.2	--	4.8	48	--	3.1	3.47
23...	1147	14.0	152	7.2	13.1	--	5.4	52	--	2.6	3.67
23...	1148	15.0	149	7.2	12.8	--	5.8	56	--	2.1	3.87
23...	1149	16.0	148	7.2	12.3	--	6.0	57	--	2.1	3.87
23...	1150	17.0	148	7.2	12.1	--	6.3	60	--	1.9	3.98
23...	1151	18.0	146	7.2	11.9	--	6.4	60	--	1.7	4.09
23...	1152	19.0	144	7.2	11.9	--	6.6	62	--	1.5	4.20
23...	1153	20.0	144	7.2	11.7	--	6.7	63	--	1.0	4.56
23...	1154	21.0	143	7.1	11.6	--	6.7	63	--	.81	4.82
23...	1155	22.0	143	7.2	11.4	--	6.7	63	--	.81	4.82
23...	1156	23.0	144	7.1	11.3	--	6.8	64	--	.71	4.95
23...	1157	24.0	143	7.2	11.1	--	6.6	61	--	.61	5.09
23...	1159	26.0	144	7.1	11.0	--	6.2	57	--	.23	6.06
23...	1200	27.0	145	7.1	11.0	--	6.1	56	--	.19	6.24
23...	1201	28.0	145	7.1	10.9	--	6.0	56	--	.16	6.44
23...	1202	29.0	145	7.2	10.9	--	5.9	55	--	.12	6.75
23...	1203	30.0	146	7.1	10.8	--	5.5	51	--	.03	8.01
23...	1205	31.0	146	7.1	10.8	--	5.3	49	--	.01	9.02
23...	1206	32.0	146	7.1	10.8	--	5.2	48	--	.01	9.02
23...	1207	33.0	146	7.1	10.8	--	5.1	47	--	.01	9.72
SEP											
22...	1102	.10	159	8.1	22.4	745	6.9	81	75	23	1.48
22...	1105	.50	158	8.0	22.3	745	6.9	81	59	21	1.54
22...	1107	1.0	157	8.1	22.2	745	7.1	84	44	21	1.54
22...	1108	1.5	--	--	--	--	--	--	30	--	--
22...	1109	2.0	156	8.0	21.9	745	7.4	87	25	20	1.60
22...	1110	2.5	--	--	--	--	--	--	20	--	--
22...	1111	3.0	157	7.9	21.8	745	7.7	90	17	20	1.60
22...	1112	3.5	--	--	--	--	--	--	13	--	--
22...	1113	4.0	156	7.9	21.8	745	7.8	91	8.7	20	1.60
22...	1114	4.5	--	--	--	--	--	--	7.6	--	--
22...	1115	5.0	156	7.9	21.7	745	8.0	93	5.6	19	1.66
22...	1116	5.5	--	--	--	--	--	--	4.2	--	--
22...	1117	6.0	155	7.8	21.6	745	8.0	93	3.5	21	1.54
22...	1118	6.5	--	--	--	--	--	--	3.0	--	--
22...	1119	7.0	155	7.8	21.6	745	8.1	94	2.5	21	1.54
22...	1120	7.5	--	--	--	--	--	--	2.0	--	--
22...	1121	8.0	155	7.8	21.6	745	8.1	94	1.7	21	1.54
22...	1122	8.5	--	--	--	--	--	--	1.3	--	--
22...	1123	9.0	154	7.8	21.5	745	8.0	93	1.1	20	1.60
22...	1125	9.3	--	--	--	--	--	--	1.0	--	--
22...	1126	10.0	154	7.6	21.5	745	7.7	89	--	20	1.60
22...	1128	11.0	156	7.5	21.4	745	7.2	83	--	20	1.60
22...	1129	12.0	154	7.4	21.2	745	5.0	58	--	21	1.54
22...	1130	13.0	156	7.1	21.0	745	3.6	41	--	21	1.54
22...	1134	14.0	156	7.0	20.7	745	2.9	33	--	23	1.48
22...	1136	15.0	156	7.0	20.5	745	2.3	26	--	15	1.91
22...	1138	16.0	155	6.9	20.3	745	1.5	17	--	16	1.85
22...	1140	17.0	156	6.9	20.2	745	1.1	12	--	13	2.04
22...	1142	18.0	154	6.9	20.1	745	.8	9	--	11	2.18
22...	1143	19.0	155	6.8	20.1	745	.6	7	--	9.8	2.32
22...	1145	20.0	153	6.8	19.9	745	.4	4	--	9.2	2.39
22...	1146	21.0	152	6.8	19.8	745	.5	6	--	9.8	2.32
22...	1147	22.0	153	6.8	19.7	745	.3	3	--	9.2	2.39
22...	1149	23.0	154	6.8	19.4	745	.2	2	--	7.3	2.62
22...	1150	24.0	154	6.8	19.0	745	.1	1	--	4.1	3.19
22...	1151	25.0	156	6.8	18.8	745	.1	1	--	3.7	3.28
22...	1153	26.0	155	6.8	18.6	745	.1	1	--	1.0	4.56
22...	1154	27.0	157	6.8	18.4	745	.1	1	--	2.1	3.87
22...	1155	28.0	158	6.8	18.2	745	.1	1	--	1.7	4.09
22...	1156	29.0	160	6.8	17.7	745	.0	0	--	1.7	4.09
22...	1158	30.0	161	6.8	17.5	745	.0	0	--	1.7	4.09

11461800 LAKE MENDOCINO NEAR UKIAH, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
DEC										
08...	1055	.10	148	6.9	12.2	--	8.8	84	--	--
08...	1057	.50	148	7.0	12.1	--	8.8	84	--	--
08...	1058	1.0	148	7.0	12.1	--	8.8	84	--	--
08...	1059	1.5	--	--	--	--	--	--	--	--
08...	1100	2.0	148	7.1	12.1	--	9.0	86	--	--
08...	1101	2.2	--	--	--	--	--	--	--	--
08...	1102	3.0	148	7.2	12.1	--	9.1	87	--	--
08...	1104	4.0	149	7.1	12.1	--	9.0	86	--	--
08...	1106	5.0	149	7.2	12.1	--	9.3	89	--	--
08...	1108	6.0	149	7.2	12.1	--	9.2	88	--	--
08...	1109	7.0	149	7.2	12.1	--	9.5	90	--	--
08...	1110	8.0	149	7.2	12.1	--	9.5	90	--	--
08...	1111	9.0	148	7.2	12.1	--	9.4	90	--	--
08...	1112	10.0	148	7.2	12.1	--	8.8	84	--	--
08...	1113	11.0	148	7.2	12.1	--	9.1	87	--	--
08...	1114	12.0	148	7.2	12.1	--	9.1	87	--	--
08...	1115	13.0	148	7.2	12.1	--	9.1	87	--	--
08...	1116	14.0	148	7.2	12.0	--	9.1	87	--	--
08...	1117	15.0	147	7.2	12.0	--	8.8	84	--	--
08...	1118	16.0	147	7.2	11.7	--	9.0	85	--	--
08...	1119	17.0	147	7.2	11.5	--	8.9	83	--	--
08...	1120	18.0	147	7.2	11.4	--	9.0	84	--	--
08...	1122	19.0	147	7.2	11.2	--	8.9	83	--	--
08...	1123	20.0	147	7.2	11.1	--	8.9	82	--	--
08...	1124	21.0	146	7.2	11.1	--	8.9	82	--	--
08...	1125	22.0	146	7.2	11.0	--	8.9	82	--	--
08...	1126	23.0	146	7.2	10.9	--	9.1	84	--	--
08...	1127	24.0	145	7.2	10.9	--	8.8	81	--	--
08...	1128	25.0	145	7.2	10.8	--	9.0	83	--	--
08...	1130	26.0	145	7.2	10.8	--	9.1	84	--	--
08...	1131	27.0	144	7.2	10.8	--	9.0	83	--	--
08...	1132	28.0	144	7.2	10.8	--	9.0	83	--	--
08...	1134	29.0	144	7.2	10.7	--	9.0	83	--	--
08...	1305	28.0	144	7.2	10.8	745	9.0	83	12	47
08...	1315	17.0	147	7.2	11.5	745	8.9	84	K4	24
08...	1330	1.0	148	7.0	12.1	745	8.8	84	K3	93
MAR										
23...	1113	.10	--	--	--	--	--	--	--	--
23...	1114	.50	130	8.2	14.4	745	10.9	109	--	--
23...	1115	1.0	136	8.2	12.6	--	11.6	112	--	--
23...	1116	1.5	--	--	--	--	--	--	--	--
23...	1117	2.0	137	8.2	11.6	--	12.0	113	--	--
23...	1118	2.4	--	--	--	--	--	--	--	--
23...	1119	3.0	136	8.1	11.1	--	12.3	114	--	--
23...	1120	4.0	137	8.0	11.0	--	12.6	117	--	--
23...	1122	5.0	136	7.9	10.8	--	12.7	118	--	--
23...	1124	6.0	136	7.8	10.8	--	13.0	120	--	--
23...	1125	7.0	135	7.8	10.7	--	13.2	121	--	--
23...	1127	8.0	135	7.7	10.6	--	13.3	122	--	--
23...	1129	9.0	135	7.7	10.6	--	13.4	123	--	--
23...	1130	10.0	136	7.7	10.5	--	13.6	125	--	--
23...	1132	11.0	135	7.6	10.2	--	13.6	124	--	--
23...	1133	12.0	136	7.6	10.1	--	13.6	124	--	--
23...	1134	13.0	137	7.6	9.9	--	14.1	127	--	--
23...	1136	14.0	135	7.6	9.9	--	13.8	124	--	--
23...	1137	15.0	135	7.5	9.8	--	14.0	126	--	--
23...	1139	16.0	136	7.5	9.7	--	13.7	123	--	--
23...	1140	17.0	136	7.5	9.7	--	13.6	123	--	--
23...	1141	18.0	136	7.5	9.6	--	13.3	120	--	--
23...	1143	19.0	138	7.5	9.6	--	12.5	113	--	--
23...	1144	20.0	138	7.4	9.5	--	12.5	112	--	--
23...	1145	21.0	139	7.4	9.5	--	12.1	108	--	--
23...	1147	22.0	138	7.4	9.5	--	11.8	105	--	--
23...	1149	23.0	138	7.4	9.4	--	11.1	99	--	--
23...	1150	24.0	138	7.4	9.4	--	10.8	96	--	--
23...	1152	25.0	139	7.4	9.3	--	10.5	94	--	--
23...	1154	26.0	137	7.4	9.3	--	10.2	91	--	--
23...	1155	27.0	137	7.3	9.3	--	10.0	89	--	--
23...	1156	28.0	137	7.3	9.3	--	9.8	88	--	--
23...	1157	29.0	137	7.3	9.3	--	9.5	85	--	--
23...	1225	27.0	137	7.3	9.3	745	10.0	89	12	24
23...	1250	13.0	137	7.6	9.9	745	14.1	127	K6	16
23...	1310	1.0	136	8.2	12.6	745	11.6	112	K3	K8
JUN										
23...	1122	.10	154	8.4	24.5	--	8.7	107	--	--
23...	1123	.50	154	8.4	24.5	--	8.9	110	--	--
23...	1124	1.0	155	8.4	24.4	--	9.1	111	--	--
23...	1125	1.5	--	--	--	--	--	--	--	--
23...	1126	2.0	155	8.4	24.1	--	9.3	113	--	--
23...	1127	2.5	--	--	--	--	--	--	--	--

See footnotes at end of table.

RUSSIAN RIVER BASIN

11461800 LAKE MENDOCINO NEAR UKIAH, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SAMPLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
JUN										
23...	1128	3.0	153	8.5	24.0	--	9.9	121	--	--
23...	1129	3.5	--	--	--	--	--	--	--	--
23...	1130	4.0	154	8.4	23.4	--	10.3	124	--	--
23...	1131	4.5	--	--	--	--	--	--	--	--
23...	1132	5.0	154	8.2	23.1	--	10.5	125	--	--
23...	1133	5.5	--	--	--	--	--	--	--	--
23...	1134	6.0	157	8.1	21.5	--	10.6	123	--	--
23...	1135	6.5	--	--	--	--	--	--	--	--
23...	1136	7.0	155	7.9	20.7	--	10.1	115	--	--
23...	1137	7.5	--	--	--	--	--	--	--	--
23...	1138	8.0	155	7.8	19.6	--	8.6	96	--	--
23...	1139	8.5	--	--	--	--	--	--	--	--
23...	1140	9.0	153	7.6	18.9	--	7.9	87	--	--
23...	1141	9.5	--	--	--	--	--	--	--	--
23...	1142	9.8	--	--	--	--	--	--	--	--
23...	1143	10.0	157	7.5	17.6	--	6.8	73	--	--
23...	1144	11.0	153	7.4	16.7	--	4.9	52	--	--
23...	1145	12.0	154	7.4	14.8	--	4.6	46	--	--
23...	1146	13.0	150	7.2	14.2	--	4.8	48	--	--
23...	1147	14.0	152	7.2	13.1	--	5.4	52	--	--
23...	1148	15.0	149	7.2	12.8	--	5.8	56	--	--
23...	1149	16.0	148	7.2	12.3	--	6.0	57	--	--
23...	1150	17.0	148	7.2	12.1	--	6.3	60	--	--
23...	1151	18.0	146	7.2	11.9	--	6.4	60	--	--
23...	1152	19.0	144	7.2	11.9	--	6.6	62	--	--
23...	1153	20.0	144	7.2	11.7	--	6.7	63	--	--
23...	1154	21.0	143	7.1	11.6	--	6.7	63	--	--
23...	1155	22.0	143	7.2	11.4	--	6.7	63	--	--
23...	1156	23.0	144	7.1	11.3	--	6.8	64	--	--
23...	1157	24.0	143	7.2	11.1	--	6.6	61	--	--
23...	1159	26.0	144	7.1	11.0	--	6.2	57	--	--
23...	1200	27.0	145	7.1	11.0	--	6.1	56	--	--
23...	1201	28.0	145	7.1	10.9	--	6.0	56	--	--
23...	1202	29.0	145	7.2	10.9	--	5.9	55	--	--
23...	1203	30.0	146	7.1	10.8	--	5.5	51	--	--
23...	1205	31.0	146	7.1	10.8	--	5.3	49	--	--
23...	1206	32.0	146	7.1	10.8	--	5.2	48	--	--
23...	1207	33.0	146	7.1	10.8	--	5.1	47	--	--
23...	1230	31.0	146	7.1	10.8	745	5.3	49	K1	44
23...	1250	12.0	154	7.4	14.8	745	4.6	46	<1	12
23...	1300	3.0	153	8.5	24.0	745	9.9	121	<1	K6
SEP										
22...	1102	1.0	159	8.1	22.4	745	6.9	81	--	--
22...	1105	1.50	158	8.0	22.3	745	6.9	81	--	--
22...	1107	1.0	157	8.1	22.2	745	7.1	84	--	--
22...	1108	1.5	--	--	--	--	--	--	--	--
22...	1109	2.0	156	8.0	21.9	745	7.4	87	--	--
22...	1110	2.5	--	--	--	--	--	--	--	--
22...	1111	3.0	157	7.9	21.8	745	7.7	90	--	--
22...	1112	3.5	--	--	--	--	--	--	--	--
22...	1113	4.0	156	7.9	21.8	745	7.8	91	--	--
22...	1114	4.5	--	--	--	--	--	--	--	--
22...	1115	5.0	156	7.9	21.7	745	8.0	93	--	--
22...	1116	5.5	--	--	--	--	--	--	--	--
22...	1117	6.0	155	7.8	21.6	745	8.0	93	--	--
22...	1118	6.5	--	--	--	--	--	--	--	--
22...	1119	7.0	155	7.8	21.6	745	8.1	94	--	--
22...	1120	7.5	--	--	--	--	--	--	--	--
22...	1121	8.0	155	7.8	21.6	745	8.1	94	--	--
22...	1122	8.5	--	--	--	--	--	--	--	--
22...	1123	9.0	154	7.8	21.5	745	8.0	93	--	--
22...	1125	9.3	--	--	--	--	--	--	--	--
22...	1126	10.0	154	7.6	21.5	745	7.7	89	--	--
22...	1128	11.0	156	7.5	21.4	745	7.2	83	--	--
22...	1129	12.0	154	7.4	21.2	745	5.0	58	--	--
22...	1130	13.0	156	7.1	21.0	745	3.6	41	--	--
22...	1134	14.0	156	7.0	20.7	745	2.9	33	--	--
22...	1136	15.0	156	7.0	20.5	745	2.3	26	--	--
22...	1138	16.0	155	6.9	20.3	745	1.5	17	--	--
22...	1140	17.0	156	6.9	20.2	745	1.1	12	--	--
22...	1142	18.0	154	6.9	20.1	745	.8	9	--	--
22...	1143	19.0	155	6.8	20.1	745	.6	7	--	--
22...	1145	20.0	153	6.8	19.9	745	.4	4	--	--
22...	1146	21.0	152	6.8	19.8	745	.5	6	--	--
22...	1147	22.0	153	6.8	19.7	745	.3	3	--	--
22...	1149	23.0	154	6.8	19.4	745	.2	2	--	--
22...	1150	24.0	154	6.8	19.0	745	.1	1	--	--
22...	1151	25.0	156	6.8	18.8	745	.1	1	--	--
22...	1153	26.0	155	6.8	18.6	745	.1	1	--	--

See footnotes at end of table.

11461800 LAKE MENDOCINO NEAR UKIAH, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SAMPLING DEPTH (M)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	BAROMETRIC PRESSURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED CENT SATURATION	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)
SEP										
22...	1154	27.0	157	6.8	18.4	745	.1	1	--	--
22...	1155	28.0	158	6.8	18.2	745	.1	1	--	--
22...	1156	29.0	160	6.8	17.7	745	.0	0	--	--
22...	1158	30.0	161	6.8	17.5	745	.0	0	--	--
22...	1205	28.0	158	6.8	18.2	745	.1	1	K3	>100
22...	1225	13.0	156	7.1	21.0	745	3.6	41	<1	22
22...	1235	3.0	157	7.9	21.8	745	7.7	90	K1	K8

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

< Actual value is known to be less than the value shown.

> Actual value is known to be greater than the value shown.

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CA

LOCATION.--Lat 39°11'51", long 123°11'11", in Yokaya Grant, Mendocino County, Hydrologic Unit 18010110, 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 mi² (272 km²).

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) National Geodetic Vertical Datum of 1929. 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 km²).

AVERAGE DISCHARGE (unadjusted).--7 years (water years 1912-13, 1952-55, 1958), 356 ft³/s (10.08 m³/s), 257,900 acre-ft/yr (318 hm³/yr); 23 years (water years 1960-82), 350 ft³/s (9.912 m³/s), 253,600 acre-ft/yr (313 hm³/yr).

EXTREMES FOR PERIOD OF RECORD (Prior to regulation by Lake Mendocino).--Maximum discharge, 13,300 ft³/s (377 m³/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 ft³/s (48.1 m³/s) on basis of maximum flow at station upstream which was defined to 8,600 ft³/s (244 m³/s); no flow Aug. 13-15, 1913.
1957 to current year: Maximum discharge, 7,350 ft³/s (208 m³/s) Jan. 24, 1970, gage height, 10.84 ft (3.304 m); minimum daily, 0.02 ft³/s (0.001 m³/s) Apr. 17, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,530 ft³/s (128 m³/s) Feb. 16, gage height, 7.40 ft (2.256 m); minimum daily, 28 ft³/s (0.79 m³/s) Nov. 13, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	219	104	781	614	940	643	2110	396	297	147	265	316
2	219	126	778	1460	984	759	1100	397	297	168	266	316
3	218	144	778	1800	683	757	1400	381	297	186	277	294
4	218	144	547	538	508	715	2130	372	297	185	287	275
5	209	141	409	1690	508	649	2620	372	297	184	292	258
6	193	153	409	2150	508	624	2690	375	296	186	293	258
7	188	153	409	2130	508	624	2450	376	295	188	296	254
8	188	153	409	1540	508	503	1350	377	297	188	297	250
9	188	153	409	636	489	432	797	377	297	188	299	250
10	187	153	450	636	455	431	732	376	298	188	299	244
11	188	153	477	636	442	363	1360	376	287	185	309	233
12	187	80	477	648	442	319	2080	376	277	185	316	229
13	170	28	477	659	443	320	1830	358	276	197	317	231
14	150	28	833	560	534	320	1290	348	276	220	320	233
15	150	29	1050	499	106	320	768	347	277	236	320	230
16	150	30	1050	500	1850	324	547	344	279	246	320	229
17	150	29	852	501	4450	324	550	220	281	247	320	227
18	150	29	272	502	4320	325	551	152	281	244	324	223
19	140	31	114	503	2800	269	379	153	281	243	324	222
20	126	62	746	503	744	236	274	152	283	241	324	225
21	127	76	3030	684	744	238	271	150	281	237	324	219
22	129	75	4200	689	578	221	273	150	281	235	327	218
23	129	79	4350	503	478	210	328	148	281	249	328	214
24	129	1220	2280	503	478	210	364	148	281	262	328	214
25	134	2080	612	505	480	943	364	241	283	262	328	217
26	134	2070	610	687	464	2070	383	297	281	260	325	216
27	135	1350	608	792	460	1530	438	297	279	259	324	215
28	84	788	607	989	462	747	462	297	277	262	324	202
29	37	785	525	952	---	304	462	299	277	262	322	186
30	74	784	1680	707	---	84	428	301	203	262	318	183
31	104	---	1580	708	---	624	---	297	---	262	316	---
TOTAL	4804	11230	31809	26424	26366	16438	30781	9250	8490	6864	9629	7081
MEAN	155	374	1026	852	942	530	1026	298	283	221	311	236
MAX	219	2080	4350	2150	4450	2070	2690	397	298	262	328	316
MIN	37	28	114	499	106	84	271	148	203	147	265	183
AC-FT	9530	22270	63090	52410	52300	32600	61050	18350	16840	13610	19100	14050

CAL YR 1981 TOTAL 132213 MEAN 362 MAX 4350 MIN 28 AC-FT 262200
WTR YR 1982 TOTAL 189166 MEAN 518 MAX 4450 MIN 28 AC-FT 375200

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953-55, 1964-68, 1973 to current year.

CHEMICAL ANALYSES: Water years 1953-55, 1973 to current year.

BIOLOGICAL DATA: Water year 1977-78.

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.--Chemical-quality data furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 23.5°C on several days in 1977; minimum recorded, 7.0°C Jan. 14, 1973.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 20.0°C Oct. 1; minimum recorded, 7.5°C on several days during January and February.

WATER QUALITY DATA. WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)
OCT							
16...	1325	150	170	6.9	17.0	5.0	9.2
30...	1045	104	164	8.2	16.0	45	9.3
NOV							
16...	1110	17	166	7.0	15.0	18	9.3
DEC							
07...	1400	409	156	7.6	12.0	27	10.6
28...	1245	607	124	7.6	11.0	55	10.9
JAN							
12...	1400	636	141	7.6	8.0	45	11.2
29...	1130	1100	134	--	8.0	28	11.8
FEB							
12...	1100	442	110	7.1	8.0	25	11.9
26...	1115	447	139	7.5	8.0	50	11.8
MAR							
17...	1000	324	120	7.0	9.0	27	11.3
APR							
06...	1030	2700	128	--	9.0	70	12.5
23...	1100	364	140	7.5	10.0	31	11.6
MAY							
07...	1000	376	149	7.8	11.0	22	--
21...	1100	150	149	7.8	10.0	18	11.1
JUN							
04...	1130	297	152	6.8	11.0	14	11.2
18...	1110	281	172	7.6	11.0	15	11.2
JUL							
06...	0915	184	160	7.4	11.0	12	10.4
16...	1115	247	162	7.3	12.0	9.0	11.1
30...	1135	262	162	7.5	12.0	9.2	--
AUG							
13...	1100	320	151	7.2	13.0	7.6	9.4
26...	1402	328	161	7.5	15.0	3.0	8.1
SEP							
10...	1110	251	158	7.5	17.0	2.5	8.8
23...	1120	214	166	7.5	18.0	3.1	8.8

RUSSIAN RIVER BASIN

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

11462500 RUSSIAN RIVER NEAR HOPLAND, CA

LOCATION.--Lat 39°01'36", long 123°07'46", in Rancho de Sanel Grant, Mendocino County, Hydrologic Unit 18010110, 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 mi² (938 km²).

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) National Geodetic Vertical Datum of 1929. 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 km²) 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.--43 years, 722 ft³/s (20.45 m³/s), 523,100 acre-ft/yr (645 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,000 ft³/s (1,270 m³/s) Dec. 22, 1955, gage height, 27.00 ft (8.230 m); minimum daily, 9.1 ft³/s (0.26 m³/s) Apr. 20, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in December 1937 reached a stage of 30.0 ft (9.14 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21,000 ft³/s (595 m³/s) Feb. 16, gage height, 18.91 ft (5.764 m); minimum daily, 139 ft³/s (3.94 m³/s) several days in October.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	214	150	1190	3040	1440	2820	5490	684	329	160	219	260
2	214	146	1120	3660	1490	2670	6310	668	329	152	225	260
3	217	162	1070	3660	1190	2100	5180	640	325	166	229	251
4	217	162	906	6990	949	1840	4600	608	323	168	243	232
5	215	155	660	4730	874	1590	4410	591	320	171	246	212
6	208	161	651	3870	822	1430	4250	568	315	171	257	209
7	214	162	898	3270	788	1340	3710	563	317	167	260	204
8	203	162	707	2710	758	1230	2650	550	315	165	259	198
9	200	162	820	1690	723	1080	1900	534	317	165	258	196
10	200	162	1300	1510	673	1180	2560	523	314	163	257	195
11	200	164	992	1390	633	1290	5190	517	305	163	261	179
12	200	307	1230	1280	608	1040	4660	505	286	164	272	175
13	195	463	1750	1190	773	963	4140	490	288	165	275	177
14	168	897	2160	1080	2970	940	3860	465	289	182	276	180
15	164	2510	2260	953	9970	882	2670	458	284	195	273	197
16	162	4530	1910	898	11200	972	1960	448	276	216	273	217
17	162	2860	1580	861	6660	904	1670	371	273	215	273	232
18	162	1010	4900	893	5640	844	1470	262	273	210	273	210
19	161	582	12700	1160	4480	765	1250	239	267	209	273	207
20	141	443	10200	1550	2150	671	1030	228	269	199	272	202
21	139	2370	6930	1580	1890	641	990	224	270	199	270	201
22	139	1520	6210	1390	1640	608	890	218	270	196	270	196
23	139	8590	5510	1310	1360	571	826	218	273	200	266	194
24	139	4050	4080	1360	1270	553	830	218	269	212	260	199
25	139	3180	2000	1260	1200	804	797	248	266	217	260	196
26	139	3000	1840	2170	1150	1890	776	326	260	224	260	196
27	178	2780	1970	1940	1120	1660	783	332	261	227	260	196
28	648	1680	1710	2970	1070	1190	793	331	266	227	260	193
29	273	1440	4970	2190	---	1330	777	319	269	221	260	178
30	163	1290	4150	1670	---	5510	747	326	246	221	260	168
31	165	---	3720	1460	---	10800	---	328	---	219	260	---
TOTAL	6078	45250	92094	65685	65491	52108	77169	13000	8664	5929	8060	6110
MEAN	196	1508	2971	2119	2339	1681	2572	419	289	191	260	204
MAX	648	8590	12700	6990	11200	10800	6310	684	329	227	276	260
MIN	139	146	651	861	608	553	747	218	246	152	219	168
AC-FT	12060	89750	182700	130300	129900	103400	153100	25790	17190	11760	15990	12120
CAL YR 1981 TOTAL	279278			765	MAX 12700	MIN 111	AC-FT 553900					
WTR YR 1982 TOTAL	445638			1221	MAX 12700	MIN 139	AC-FT 883900					

RUSSIAN RIVER BASIN

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, Hydrologic Unit 18010110, on left bank 0.3 mi (0.5 km) downstream from Cummysky Creek, and 5.5 mi (8.8 km) northwest of Cloverdale.

DRAINAGE AREA.--503 mi² (1,303 km²).

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 km²) 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.--31 years, 985 ft³/s (27.90 m³/s), 713,600 acre-ft/yr (880 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,200 ft³/s (1,560 m³/s) Dec. 22, 1964, gage height, 31.60 ft (9.632 m) site and datum then in use; minimum daily, 12 ft³/s (0.34 m³/s) Apr. 22, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24,800 ft³/s (702 m³/s) Dec. 20, gage height, 18.80 ft (5.730 m); minimum daily, 144 ft³/s (4.08 m³/s) Oct. 22-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	219	183	1400	4560	1920	4880	7900	916	388	198	217	261
2	221	167	1310	5240	2010	3890	10200	874	381	166	222	257
3	225	179	1230	5160	1680	3000	7910	854	368	167	224	258
4	226	183	1160	12700	1380	2600	6190	803	371	175	238	238
5	228	180	861	7730	1250	2150	5650	771	369	184	236	224
6	221	170	775	5360	1180	1890	5500	723	368	181	240	214
7	234	174	997	4380	1120	1720	5080	702	383	172	249	209
8	218	174	907	3760	1080	1710	3120	683	370	170	255	197
9	211	174	1110	2350	1050	1430	2650	653	364	165	257	198
10	215	174	1720	2000	983	1570	4500	642	356	160	257	198
11	213	177	1300	1800	921	1780	7200	622	345	167	259	191
12	211	396	1520	1640	890	1440	6750	604	329	170	270	181
13	211	1400	2130	1500	1020	1330	6000	586	324	170	275	187
14	190	1560	2730	1380	3260	1260	5400	563	326	178	281	192
15	178	4060	2850	1210	12700	1160	4410	565	327	191	280	194
16	174	9400	2460	1130	15400	1320	3160	561	310	208	277	232
17	172	5270	2050	1080	7850	1230	2580	529	306	208	278	245
18	172	1660	5750	1080	6460	1130	2180	394	301	203	277	224
19	172	993	17500	1420	5530	1030	1870	343	287	205	277	220
20	159	699	16300	2140	2730	914	1530	326	300	197	278	216
21	148	4160	8720	2070	2290	861	1390	329	301	185	276	216
22	144	2660	7380	1770	1970	822	1270	322	285	185	276	210
23	144	11200	6300	1630	1620	785	1190	298	285	188	275	205
24	144	6270	5020	1760	1510	747	1180	292	278	196	269	208
25	145	3980	2400	1630	1420	743	1140	293	277	211	262	208
26	147	3780	2100	2840	1390	2020	1100	377	275	215	261	207
27	220	3960	2440	2780	1390	1990	1070	396	273	211	266	208
28	840	2300	1990	4220	1270	1510	1070	388	278	210	265	208
29	432	1830	6570	3260	---	1950	1040	373	283	211	271	193
30	246	1560	5720	2410	---	7640	1010	371	285	206	270	180
31	202	---	5120	2060	---	16700	---	376	---	206	261	---
TOTAL	6882	69073	119820	94050	83274	73202	111240	16529	9693	5859	8099	6379
MEAN	222	2302	3865	3034	2974	2361	3708	533	323	189	261	213
MAX	840	11200	17500	12700	15400	16700	10200	916	388	215	281	261
MIN	144	167	775	1080	890	743	1010	292	273	160	217	180
AC-FT	13650	137000	237700	186500	165200	145200	220600	32790	19230	11620	16060	12650
CAL YR 1981	TOTAL	371292	MEAN	1017	MAX	17500	MIN	114	AC-FT	736500		
WTR YR 1982	TOTAL	604100	MEAN	1655	MAX	17500	MIN	144	AC-FT	1198000		

11464000 RUSSIAN RIVER NEAR HEALDSBURG, CA

LOCATION.--Lat 38°36'48", long 122°50'07", in Sotoyome Grant, Sonoma County, Hydrologic Unit 18010110, on left bank 2 mi (3 km) east of Healdsburg, and 3.5 mi (5.6 km) upstream from Dry Creek.

DRAINAGE AREA.--793 mi² (2,054 km²).

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) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Several diversions for irrigation of about 17,800 acres (72.0 km²) 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.--43 years, 1,441 ft³/s (40.81 m³/s), 1,044,000 acre-ft/yr (1.29 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 71,300 ft³/s (2,020 m³/s) Dec. 23, 1964, gage height, 27.00 ft (8.230 m); maximum gage height, 30.0 ft (9.14 m) Feb. 28, 1940; minimum daily discharge, 17 ft³/s (0.48 m³/s) Apr. 25, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1937 reached a stage of 30.8 ft (9.39 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 42,000 ft³/s (1,190 m³/s) Dec. 20, gage height, 19.34 ft (5.895 m); minimum daily, 149 ft³/s (4.22 m³/s) Oct. 24, 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	208	287	2170	7940	2500	6490	14200	1310	468	304	214	264
2	208	251	1960	8140	2440	7090	17400	1240	457	277	215	263
3	214	228	1790	7100	2220	4820	14900	1180	446	261	222	262
4	211	224	1660	22800	1890	3950	10600	1110	436	243	224	263
5	212	220	1420	16100	1660	3250	8310	1060	434	243	241	252
6	214	213	1240	10200	1530	2790	8100	1020	433	243	248	240
7	232	206	1360	7680	1440	2520	6530	983	433	232	255	230
8	226	204	1330	6190	1370	2540	5300	950	427	209	264	220
9	215	201	1300	4570	1300	2240	3870	914	414	198	263	210
10	214	199	2320	3610	1230	2200	6840	889	407	190	270	200
11	214	202	1810	3130	1160	2920	21900	877	401	183	273	191
12	208	321	1720	2790	1090	2490	13000	849	395	185	277	182
13	204	1120	2320	2490	1210	2080	10700	825	381	185	280	177
14	203	3890	3130	2270	3170	1980	10900	796	369	181	283	178
15	188	4690	3150	2030	17300	1840	8040	763	364	182	291	180
16	178	15200	3130	1850	27600	2030	5730	738	347	187	288	195
17	173	12300	2620	1730	12400	2050	4570	712	330	196	272	221
18	171	3900	5700	1670	9700	1860	3770	653	324	194	269	233
19	169	2230	26800	1980	8160	1700	3240	571	326	186	259	225
20	168	1590	35200	3590	5020	1530	2680	523	318	186	260	220
21	162	8350	14800	3360	3630	1420	2310	492	320	179	261	212
22	155	7550	11600	2700	3100	1330	2060	479	323	178	261	211
23	152	10000	9550	2360	2590	1250	1880	458	315	176	258	205
24	149	14200	8220	2490	2290	1180	1780	440	303	186	260	210
25	149	6570	4410	2340	2100	1140	1690	427	298	200	261	210
26	150	5150	3400	3360	1980	1670	1610	430	301	204	261	206
27	183	5900	3440	4000	2200	2190	1540	440	302	207	262	203
28	932	3850	2990	5000	1920	1990	1490	462	300	212	268	201
29	882	2970	8760	4510	---	2220	1440	457	306	212	271	199
30	530	2500	10600	3490	---	7810	1390	458	310	212	272	187
31	351	---	7540	2900	---	28200	---	467	---	213	269	---
TOTAL	7825	114716	187440	154370	124200	108770	197770	22973	10988	6444	8072	6450
MEAN	252	3824	6046	4980	4436	3509	6592	741	366	208	260	215
MAX	932	15200	35200	22800	27600	28200	21900	1310	468	304	291	264
MIN	149	199	1240	1670	1090	1140	1390	427	298	176	214	177
AC-FT	15520	227500	371800	306200	246400	215700	392300	45570	21790	12780	16010	12790
CAL YR 1981 TOTAL	557803			1528	MAX 35200	MIN 85	AC-FT 1106000					
WTR YR 1982 TOTAL	950018			2603	MAX 35200	MIN 149	AC-FT 1884000					

RUSSIAN RIVER BASIN

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, 1980.

WATER TEMPERATURES: Water years 1966 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1965 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 28.0°C July 13, 14, 1972, and June 21, 1981; minimum recorded, 5.0°C Dec. 10, 11, 1972.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 27.0°C July 14; minimum recorded, 7.0°C Jan. 21, 22.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

11464000 RUSSIAN RIVER NEAR HEALDSBURG, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	9.0	18.0	14.5	21.5	18.0	21.0	19.5	25.0	21.5	23.0	20.0
2	10.0	9.0	18.5	15.0	21.0	17.5	22.5	18.5	24.5	21.0	22.5	20.0
3	11.0	10.0	19.0	15.5	20.5	17.0	21.5	19.5	24.0	21.0	23.0	20.5
4	11.5	10.0	19.5	16.0	20.5	17.0	22.5	18.0	24.5	20.5	23.5	19.5
5	10.5	10.0	19.5	16.5	20.5	17.0	23.5	19.0	24.5	20.5	24.0	20.5
6	11.0	9.0	20.0	16.5	21.5	18.0	23.5	20.0	25.5	21.5	23.5	21.0
7	11.0	9.0	20.5	17.0	21.5	18.0	23.0	20.0	25.5	23.0	24.5	20.0
8	12.0	9.5	18.5	16.0	22.5	18.5	24.0	19.5	25.5	22.0	24.5	20.0
9	13.5	10.5	18.0	14.5	22.0	19.0	25.0	20.0	25.0	21.5	23.0	19.5
10	13.0	12.0	18.0	15.0	21.5	19.0	25.0	21.0	24.5	21.0	23.5	19.5
11	13.0	12.0	19.0	15.0	20.0	18.5	26.0	21.5	24.0	20.5	23.0	19.0
12	12.5	11.5	19.0	15.5	22.0	18.0	25.5	22.0	25.0	21.0	23.5	19.0
13	13.0	12.0	19.0	16.0	22.5	18.5	26.0	22.0	23.5	21.0	23.5	20.0
14	13.0	12.0	20.0	16.5	24.0	19.5	27.0	22.5	23.0	20.0	21.0	19.0
15	13.0	10.5	20.0	16.5	24.5	20.5	26.0	23.0	22.5	19.5	20.5	17.5
16	14.0	11.0	20.5	16.5	24.0	20.5	24.5	21.0	24.0	19.5	20.0	17.0
17	15.0	12.0	19.5	17.0	23.0	20.0	24.5	20.5	24.0	20.0	19.5	17.5
18	15.5	12.5	19.5	15.0	21.5	19.5	24.0	20.5	24.0	20.5	20.5	18.0
19	16.5	12.5	21.0	17.0	22.5	18.5	24.0	20.5	23.5	20.5	21.5	17.5
20	17.0	13.0	21.5	17.5	22.5	19.5	24.5	20.5	24.0	20.0	22.0	17.5
21	17.5	13.5	22.0	17.5	22.5	19.5	25.0	21.0	24.5	20.5	22.5	18.5
22	18.0	14.0	22.5	18.0	23.0	19.5	25.0	21.0	24.5	20.5	22.5	18.5
23	17.5	14.5	24.0	19.0	22.5	20.0	25.0	21.0	23.5	21.0	21.5	19.0
24	17.5	14.5	25.0	20.5	22.5	20.0	24.0	21.0	23.5	21.0	21.5	19.5
25	16.5	14.0	23.0	20.0	23.0	19.5	24.0	20.5	22.5	20.5	22.5	19.0
26	17.5	14.5	21.5	19.0	23.0	20.5	24.5	20.5	23.5	20.0	20.5	17.5
27	18.0	14.5	22.0	18.5	24.5	20.5	25.0	20.5	22.5	20.0	20.0	17.0
28	17.0	14.5	22.0	18.5	22.5	20.5	25.0	21.0	22.0	19.5	20.5	17.0
29	18.0	14.0	21.0	18.5	21.0	19.0	25.5	21.5	23.0	20.0	19.5	16.5
30	17.5	14.5	20.5	18.5	22.0	18.5	25.5	21.0	23.0	19.5	20.0	15.5
31	---	---	20.0	17.5	---	---	25.5	21.5	23.5	19.5	---	---
MONTH	18.0	9.0	25.0	14.5	24.5	17.0	27.0	18.0	25.5	19.5	24.5	15.5

RUSSIAN RIVER BASIN

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, Hydrologic Unit 18010110, 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 mi² (145.0 km²).

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, Dec. 7-21 and Feb. 10 to Mar. 12, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--9 years, 126 ft³/s (3,568 m³/s), 91,290 acre-ft/yr (113 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,400 ft³/s (436 m³/s) Jan. 16, 1974, gage height, 13.50 ft (4.115 m); no flow many days in 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft³/s (85 m³/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. 23	1145	3,070	86.9	7.60	2.316	Feb. 15	Unknown	7,570	214	10.14	3.091
Dec. 19	Unknown	*8,870	251	10.78	3.286	Mar. 31	0500	3,740	106	7.80	2.377
Jan. 4	0915	4,260	121	8.14	2.481						

Minimum daily, 0.21 ft³/s (0.006 m³/s) Oct. 1-5.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.21	11	109	748	183	690	1250	75	23	7.7	3.5	1.9
2	.21	9.2	92	812	159	590	1660	74	20	7.7	3.6	1.8
3	.21	7.8	80	858	140	435	1180	70	19	7.7	3.6	1.2
4	.21	6.8	71	3060	124	290	758	67	18	7.7	3.6	1.4
5	.21	6.7	63	1460	109	225	572	63	16	7.7	3.6	1.6
6	.28	6.4	101	835	99	195	499	59	15	7.7	3.6	1.6
7	1.6	6.2	140	529	91	175	437	58	15	7.7	3.6	1.6
8	.93	6.2	120	394	86	160	388	58	15	8.2	3.3	1.6
9	.68	6.2	225	309	81	170	322	58	13	5.7	3.0	1.6
10	.66	7.8	320	365	77	215	918	56	13	5.5	2.8	1.6
11	.66	8.9	220	204	76	195	1860	54	13	5.5	2.8	1.6
12	.66	114	415	173	110	176	1130	47	12	5.5	2.8	1.6
13	.66	399	660	147	425	161	1040	44	12	5.5	2.7	1.6
14	.76	257	640	124	1300	153	1060	41	12	5.5	2.5	1.6
15	.85	862	590	110	4750	135	744	39	11	5.5	2.5	1.7
16	.85	1360	450	98	1800	175	515	37	11	6.2	2.5	4.1
17	.85	869	295	92	820	164	409	34	10	5.6	2.3	4.0
18	.85	298	2150	89	520	139	340	37	10	4.3	2.3	2.1
19	.85	160	4450	121	360	119	286	35	10	4.6	2.3	1.8
20	.85	105	2500	265	275	107	217	35	10	4.7	2.3	1.5
21	.85	961	1220	238	235	98	180	35	9.6	4.7	2.3	1.4
22	.85	543	837	169	202	90	156	32	9.6	4.7	2.3	1.6
23	.85	1640	555	151	178	82	140	32	9.2	4.7	2.3	1.4
24	.85	873	417	147	155	76	126	28	8.9	5.5	2.1	1.3
25	.85	413	353	131	143	71	115	28	8.9	5.1	2.1	1.3
26	.85	346	320	258	138	66	108	27	8.9	4.3	2.5	1.3
27	81	345	327	205	132	62	98	26	9.1	4.0	2.2	1.3
28	203	228	252	484	200	113	90	25	7.6	4.3	2.1	1.3
29	57	172	1410	323	---	226	85	23	8.3	4.3	2.1	1.3
30	24	133	826	261	---	1020	79	25	7.9	4.9	2.1	1.3
31	15	---	710	214	---	2570	---	24	---	3.7	2.0	---
TOTAL	398.14	10161.2	20918	13374	12968	9143	16762	1346	366.0	176.4	83.3	51.0
MEAN	12.8	339	675	431	463	295	559	43.4	12.2	5.69	2.69	1.70
MAX	203	1640	4450	3060	4750	2570	1860	75	23	8.2	3.6	4.1
MIN	.21	6.2	63	89	76	62	79	23	7.6	3.7	2.0	1.2
AC-FT	790	20150	41490	26530	25720	18140	33250	2670	726	350	165	101

CAL YR 1981	TOTAL	51010.34	MEAN	140	MAX	4450	MIN	.15	AC-FT	101200
WTR YR 1982	TOTAL	85747.04	MEAN	235	MAX	4750	MIN	.21	AC-FT	170100

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, Hydrologic Unit 18010110, on left bank 0.6 mi (1.0 km) upstream from Strawberry Creek, and 7.9 mi (12.7 km) southwest of Asti.

DRAINAGE AREA.--12.2 mi² (31.6 km²).

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.

AVERAGE DISCHARGE.--9 years, 30.5 ft³/s (0.864 m³/s), 22,100 acre-ft/yr (27.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,320 ft³/s (65.7 m³/s) Jan. 14, 1978, gage height, 9.82 ft (2.993 m); no flow many days in 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 900 ft³/s (25.5 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 19	1800	1,560 44.2	8.50 2.591	Mar. 31	0415	981 27.8	7.25 2.210
Jan. 4	0845	1,180 33.4	7.71 2.350	Apr. 10	2245	1,060 30.0	7.43 2.265
Feb. 15	2130	*1,580 44.7	8.54 2.603				

Minimum daily, 0.07 ft³/s (0.002 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.07	2.4	30	140	51	180	275	21	6.2	2.8	.61	.47
2	.09	2.1	26	144	45	128	391	20	6.0	2.8	.77	.46
3	.21	1.8	23	168	40	112	336	19	5.7	2.5	.79	.44
4	.17	1.7	20	747	36	95	221	18	5.6	2.5	.80	.42
5	.16	1.5	18	322	31	81	149	16	5.5	2.3	.77	.39
6	.23	1.5	21	185	28	71	119	15	5.3	2.2	.74	.38
7	2.4	1.5	20	125	27	67	96	15	5.1	2.1	.64	.37
8	.56	1.4	17	92	25	83	82	14	5.0	2.0	.54	.34
9	.43	1.4	47	73	23	72	72	13	4.8	1.9	.58	.33
10	.91	1.9	47	65	21	76	311	13	4.6	1.8	.60	.36
11	.55	2.0	38	55	19	76	565	12	4.7	1.7	.63	.34
12	.45	24	39	45	18	72	281	12	4.5	1.6	.63	.32
13	.45	114	41	37	40	69	200	11	4.3	1.5	.65	.33
14	.43	48	44	31	121	67	179	11	4.1	1.4	.68	.38
15	.43	198	50	27	788	62	142	10	3.9	1.4	.69	.50
16	.43	290	46	24	563	68	113	9.9	3.7	1.3	.63	.92
17	.43	178	40	21	214	63	91	9.7	3.5	1.4	.59	1.1
18	.43	66	341	21	134	60	76	9.4	3.6	1.4	.57	.74
19	.45	38	999	39	100	59	65	9.1	3.6	1.4	.58	.64
20	.45	26	689	71	80	58	57	8.8	3.5	1.3	.57	.49
21	.45	300	254	63	69	56	49	8.5	3.4	1.3	.53	.42
22	.46	153	151	51	62	53	43	8.2	3.2	1.2	.49	.40
23	.45	209	108	47	57	50	39	7.7	3.1	1.1	.48	.37
24	.48	173	82	44	52	47	35	7.2	3.1	1.1	.48	.43
25	.51	97	66	41	50	45	33	7.0	3.1	1.1	.49	.49
26	.66	80	58	61	64	43	30	7.1	3.2	1.1	.50	.42
27	32	72	50	57	50	40	28	6.9	3.1	1.1	.51	.40
28	42	57	44	77	43	55	26	6.6	3.0	1.0	.52	.39
29	11	45	213	71	---	72	24	6.5	3.2	.92	.54	.35
30	4.6	36	161	64	---	244	23	6.4	3.0	.87	.55	.35
31	3.2	---	140	59	---	648	---	6.4	---	.74	.51	---
TOTAL	105.54	2223.2	3923	3067	2851	2972	4151	345.4	124.6	48.83	18.66	13.74
MEAN	3.40	74.1	127	98.9	102	95.9	138	11.1	4.15	1.58	.60	.46
MAX	42	300	999	747	788	648	565	21	6.2	2.8	.80	1.1
MIN	.07	1.4	17	21	18	40	23	6.4	3.0	.74	.48	.32
AC-FT	209	4410	7780	6080	5650	5890	8230	685	247	97	37	27
CAL YR 1981	TOTAL	12180.83	MEAN 33.4	MAX 999	MIN 0	AC-FT 24160						
WTR YR 1982	TOTAL	19843.97	MEAN 54.4	MAX 999	MIN .07	AC-FT 39360						

RUSSIAN RIVER BASIN

11465000 DRY CREEK BELOW WARM SPRINGS DAM, NEAR GEYSERVILLE, CA

LOCATION.--Lat 38°43'11", long 122°59'58", in Tzabaco Grant, Sonoma County, Hydrologic Unit 18010110, on right bank of outlet channel, 500 ft (152 m) downstream from Warm Springs Dam, 500 ft (152 m) from county road bridge and 5.0 mi (8.0 km) west of Geyserville.

DRAINAGE AREA.--131 mi² (339 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to September 1942 (published as "Dry Creek near Healdsburg"), October 1981 to September 1982.

GAGE.--Water-stage recorder. Altitude of gage is 188 ft (57.3 m), from topographic map. Prior to Sept. 30, 1942, nonrecording gage at site 500 ft (152 m) downstream at different datum.

REMARKS.--Records good. Flow slightly regulated by Warm Springs Dam since 1981, 500 ft (152 m) upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,500 ft³/s (637 m³/s) Feb. 28, 1940, gage height 16.9 ft (5.15 m) site and datum then in use; no flow Oct. 1 to Dec. 8, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1937 reached a stage of 21.8 ft (6.64 m) from floodmarks, discharge about 25,000 ft³/s (708 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,590 ft³/s (158 m³/s) Dec. 20, gage height, 9.67 ft (2.947 m); minimum daily, 3.1 ft³/s (0.088 m³/s) Aug. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	34	282	1340	418	1120	2610	218	47	22	7.7	6.5
2	8.9	30	239	1380	383	1180	2570	196	46	21	6.2	4.7
3	8.9	27	205	1290	356	1060	2740	174	45	21	6.0	4.6
4	8.9	24	175	2740	328	834	2560	154	44	20	6.5	4.5
5	8.9	22	147	3330	302	647	2170	140	42	20	6.1	4.6
6	8.9	20	138	3120	278	558	1680	130	41	18	6.0	4.8
7	9.0	18	222	2620	260	496	1210	122	39	17	6.9	4.8
8	9.0	17	197	1900	238	518	922	115	37	16	7.0	4.7
9	9.3	17	243	1190	217	500	686	111	36	15	6.2	4.8
10	9.2	16	488	751	193	500	840	109	34	14	5.7	4.8
11	9.4	17	382	555	165	544	2300	107	33	14	5.2	4.6
12	9.4	68	368	472	145	517	2470	102	33	13	4.6	4.7
13	9.5	402	432	409	379	508	2270	98	32	12	3.4	4.5
14	9.3	1040	460	369	641	483	2130	93	30	11	3.4	4.4
15	9.4	954	460	339	1960	448	1850	87	28	11	3.2	4.5
16	9.4	2350	437	312	3240	465	1440	82	27	9.3	3.3	5.8
17	9.4	2800	380	287	3030	477	1120	77	26	10	3.5	15
18	9.5	1780	1080	271	2740	452	889	73	26	11	3.3	20
19	9.3	863	4220	309	2230	412	697	72	26	10	3.2	15
20	9.3	398	4870	526	1570	382	599	67	27	9.6	3.3	11
21	9.3	1070	4470	589	878	361	526	64	26	9.6	3.1	8.6
22	9.7	2260	4180	479	586	341	479	62	25	9.6	3.2	7.4
23	9.8	1900	3810	420	477	322	427	59	24	9.3	3.2	7.3
24	9.8	2800	3260	396	417	304	388	55	23	9.5	3.2	6.5
25	9.8	1910	2370	370	378	287	358	50	23	9.6	3.5	7.2
26	9.8	1050	1400	449	383	272	335	49	23	9.0	4.4	6.7
27	13	835	763	490	427	259	313	50	24	9.0	5.0	5.5
28	10	571	502	608	397	321	289	49	23	8.6	5.2	5.5
29	14	418	1260	591	---	407	265	48	22	8.0	5.4	5.4
30	37	337	1880	518	---	1910	242	48	22	8.0	5.4	5.1
31	39	---	1470	465	---	3150	---	48	---	8.6	6.8	---
TOTAL	355.0	24048	40790	28885	23016	20035	37375	2909	934	393.7	149.1	203.5
MEAN	11.5	802	1316	932	822	646	1246	93.8	31.1	12.7	4.81	6.78
MAX	39	2800	4870	3330	3240	3150	2740	218	47	22	7.7	20
MIN	8.9	16	138	271	145	259	242	48	22	8.0	3.1	4.4
AC-FT	704	47700	80910	57290	45650	39740	74130	5770	1850	781	296	404

WTR YR 1982 TOTAL 179093.3 MEAN 491 MAX 4870 MIN 3.1 AC-FT 355200

11465000 DRY CREEK BELOW WARM SPRINGS DAM, NEAR GEYSERVILLE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

WATER TEMPERATURES: November 1981 to September 1982.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: November 1981 to September 1982.

INSTRUMENTATION.--Temperature recorder.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 26.5°C July 14; minimum recorded, 6.5°C Jan. 20.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

RUSSIAN RIVER BASIN

11465000 DRY CREEK BELOW WARM SPRINGS DAM, NEAR GEYSERVILLE, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

11465200 DRY CREEK NEAR GEYSERVILLE, CA

LOCATION.--Lat 38°41'55", long 122°57'25", in Tzabaco Grant, Sonoma County, Hydrologic Unit 18010110, 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 mi² (420 km²).

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), National Geodetic Vertical Datum of 1929. 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. Some regulation by coffer dam at Warm Springs Dam construction site. Small diversions above station for orchard irrigation of about 1,200 acres (4.86 km²) in summer.

AVERAGE DISCHARGE.--23 years, 323 ft³/s (9.147 m³/s), 234,000 acre-ft/yr (289 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,400 ft³/s (918 m³/s) Jan. 31, 1963, gage height, 18.50 ft (5.639 m) present datum; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,200 ft³/s (204 m³/s) Dec. 19, gage height 10.15 ft (3.094 m) no peak above base of 8,200 ft³/s (232 m³/s); minimum, no flow many days during October.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	37	327	1570	487	1570	3180	219	59	27	6.3	1.1
2	0	32	280	1590	423	1800	3450	204	58	28	5.6	.95
3	0	27	246	1490	375	1490	3440	187	56	29	4.6	.95
4	0	23	223	4130	336	1230	2990	172	54	28	4.8	.79
5	0	21	202	3860	295	1000	2490	161	52	27	3.5	.63
6	0	20	189	3310	263	849	1910	153	50	25	3.0	.58
7	0	17	252	2780	240	749	1390	144	48	21	3.8	.58
8	0	17	239	2060	223	770	1090	134	46	19	4.0	.56
9	0	16	288	1370	207	739	875	127	44	17	3.4	.58
10	0	15	600	952	194	645	1320	120	43	17	2.9	.50
11	0	20	465	718	181	700	3350	116	41	17	2.5	.45
12	0	75	437	551	169	690	2980	110	39	15	2.5	.45
13	0	570	533	449	217	671	2720	105	38	10	2.3	.45
14	0	1300	586	393	675	622	2600	101	37	8.5	2.3	.45
15	0	1470	592	351	3070	568	2130	96	36	10	2.3	.45
16	0	2840	564	316	4380	601	1630	90	35	10	2.3	.40
17	0	2950	475	287	3640	608	1270	86	34	7.2	2.2	.45
18	0	1930	1620	269	3210	556	1020	82	32	7.1	2.0	17
19	0	979	5770	327	2710	497	814	82	33	7.0	1.7	21
20	0	479	5760	667	2050	453	680	80	32	6.1	1.7	14
21	0	1950	4840	734	1400	417	582	77	31	6.0	1.8	8.3
22	0	2360	4330	582	977	389	504	75	29	6.0	1.7	5.2
23	0	2390	3860	486	758	367	436	72	28	5.9	1.7	4.2
24	0	2860	3260	443	643	347	383	70	27	6.0	1.7	3.7
25	0	2070	2490	401	579	333	349	66	26	6.2	1.7	3.7
26	0	1260	1540	504	553	318	321	65	26	6.0	1.8	3.7
27	0	989	926	550	650	301	297	65	27	5.8	1.6	2.8
28	7.2	740	631	731	576	346	273	64	27	5.7	1.3	2.0
29	5.5	531	1610	730	---	474	251	62	28	5.6	1.2	1.6
30	39	401	2140	642	---	1330	234	61	28	6.0	1.2	1.6
31	43	---	1730	566	---	3770	---	60	---	6.6	1.3	---
TOTAL	94.7	28389	47005	33809	29481	25200	44959	3306	1144	401.7	80.7	99.14
MEAN	3.05	946	1516	1091	1053	813	1499	107	38.1	13.0	2.60	3.30
MAX	43	2950	5770	4130	4380	3770	3450	219	59	29	6.3	21
MIN	0	15	189	269	169	301	234	60	26	5.6	1.2	.40
AC-FT	188	56310	93230	67060	58480	49980	89180	6560	2270	797	160	197
CAL YR 1981 TOTAL	131849.58			MEAN 361	MAX 5770	MIN 0	AC-FT 261500					
WTR YR 1982 TOTAL	213969.24			MEAN 586	MAX 5770	MIN 0	AC-FT 424400					

RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.

CHEMICAL ANALYSES: Water years 1971-81.

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.--Zero bedload discharge observed at flows less than 110 ft³/s (3.12 m³/s).

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 28.5°C June 15, 1980; minimum recorded, 3.5°C Jan. 3, 1974.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 15,000 mg/L (estimated) Dec. 22, 1964; minimum daily mean, no flow many days in 1964, 1966, 1970-81.

SEDIMENT DISCHARGE: Maximum daily, 830,000 tons (753,000 metric tons), estimated, Dec. 22, 1964; minimum daily, 0 ton (0 metric ton) many days in 1964, 1966, 1968-82.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 27.5°C July 30; minimum recorded, 7.5°C Jan. 21-23.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,260 mg/L Dec. 19; minimum daily mean, no flow many days during October.

SEDIMENT DISCHARGE: Maximum daily, 19,500 tons (17,700 metric tons) Dec. 19; minimum daily, 0 ton (0 metric ton) many days during October.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	23.0	17.0	17.0	13.5	12.0	10.5	12.0	10.5	10.0	8.5	12.0	11.0
2	19.0	16.5	17.0	14.0	12.0	10.5	10.5	9.5	10.5	8.5	12.5	11.5
3	21.5	16.0	16.5	13.5	12.0	10.5	9.5	8.5	10.5	9.0	12.0	11.0
4	21.5	15.5	16.5	13.5	11.5	11.0	9.5	8.5	10.5	8.5	12.0	11.0
5	22.0	15.0	16.5	15.0	11.5	11.0	10.0	9.5	10.0	8.0	12.0	10.5
6	21.5	15.5	16.5	14.5	11.5	11.0	10.5	10.0	10.0	8.0	12.5	10.5
7	20.5	16.0	16.5	13.5	12.5	11.0	10.5	10.0	10.0	8.0	11.5	10.5
8	21.5	15.5	16.5	13.5	13.0	11.5	10.0	9.0	10.5	8.0	11.5	11.0
9	21.5	15.5	16.5	14.0	12.0	11.5	9.5	9.0	9.5	8.5	12.5	11.0
10	20.0	16.0	16.0	15.5	12.0	11.0	9.5	8.5	10.5	8.0	12.5	11.5
11	20.5	14.5	16.5	15.5	11.5	10.5	9.5	9.0	10.5	8.0	14.5	12.0
12	19.5	13.5	16.5	15.0	11.0	10.5	10.0	9.0	10.0	8.0	14.5	12.5
13	18.0	14.0	15.5	14.5	10.5	10.5	10.0	9.0	9.5	9.0	13.5	12.0
14	20.5	13.0	15.5	14.5	11.5	10.5	10.0	8.5	10.0	9.0	13.5	12.0
15	20.5	13.0	15.0	14.5	12.5	11.5	9.5	8.5	12.0	9.5	13.0	11.5
16	21.5	13.0	15.5	15.0	12.5	11.0	9.5	8.5	12.5	12.0	12.5	10.5
17	21.0	13.0	15.5	15.0	12.0	11.0	9.5	8.5	12.5	12.0	12.0	10.5
18	22.0	13.0	15.0	14.5	11.0	10.5	9.5	8.5	12.5	12.5	13.0	10.5
19	22.0	13.5	14.5	13.5	12.5	11.0	9.0	8.5	12.5	12.0	12.5	10.0
20	21.0	13.5	14.0	13.5	13.0	12.5	8.5	8.0	13.0	12.0	12.5	10.0
21	21.5	14.5	14.0	13.0	13.0	12.5	8.5	7.5	14.5	13.0	13.0	10.0
22	22.0	14.0	14.5	13.5	13.0	13.0	8.0	7.5	13.5	12.0	13.5	10.5
23	22.0	12.5	14.5	14.0	13.0	12.5	8.5	7.5	13.0	11.5	14.0	10.5
24	18.5	12.5	15.0	14.0	13.0	12.5	9.5	8.0	12.5	11.0	14.0	11.5
25	16.5	14.5	14.5	13.5	12.5	12.0	9.5	8.0	12.0	10.5	13.0	11.0
26	17.5	15.5	13.5	12.5	12.0	12.0	9.5	8.5	11.0	10.5	13.0	11.5
27	16.0	15.5	12.5	12.0	12.0	11.5	10.0	9.0	12.0	10.5	14.5	11.5
28	16.5	14.0	12.5	11.5	12.0	11.5	9.5	8.5	12.0	11.0	14.0	11.0
29	16.0	13.0	12.0	11.0	11.5	10.5	9.5	8.5	---	---	12.5	11.0
30	16.5	13.0	12.0	11.0	12.0	11.0	9.5	8.5	---	---	11.0	9.5
31	17.0	13.5	---	---	12.0	11.5	9.5	8.0	---	---	10.0	9.5
MONTH	23.0	12.5	17.0	11.0	13.0	10.5	12.0	7.5	14.5	8.0	14.5	9.5

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	0	0	0	37	144	14	327	39	34
2	0	0	0	32	128	11	280	31	23
3	0	0	0	27	112	8.2	246	24	16
4	0	0	0	23	96	6.0	223	20	12
5	0	0	0	21	90	5.1	202	21	11
6	0	0	0	20	82	4.4	189	20	10
7	0	0	0	17	50	2.3	252	23	16
8	0	0	0	17	45	2.1	239	16	10
9	0	0	0	16	40	1.7	288	34	36
10	0	0	0	15	35	1.4	600	82	133
11	0	0	0	20	85	4.6	465	75	94
12	0	0	0	75	210	43	437	48	57
13	0	0	0	570	530	816	533	33	47
14	0	0	0	1300	580	2040	586	31	49
15	0	0	0	1470	620	2460	592	33	53
16	0	0	0	2840	626	4900	564	29	44
17	0	0	0	2950	447	3650	475	20	26
18	0	0	0	1930	308	1600	1620	679	5220
19	0	0	0	979	228	603	5770	1260	19500
20	0	0	0	479	140	181	5760	870	13500
21	0	0	0	1950	816	4820	4840	600	7840
22	0	0	0	2360	385	2450	4330	510	5960
23	0	0	0	2390	338	2240	3860	462	4810
24	0	0	0	2860	314	2420	3260	400	3520
25	0	0	0	2070	288	1610	2490	330	2220
26	0	0	0	1260	158	538	1540	285	1190
27	0	0	0	989	112	299	926	197	493
28	7.2	75	1.5	740	88	176	631	160	273
29	5.5	30	1.45	531	67	96	1610	448	2200
30	39	220	23	401	47	51	2140	318	1840
31	43	160	19	---	---	---	1730	208	972
TOTAL	94.70	---	43.95	28389	---	31053.8	47005	---	70209

11465209 DRY CREEK NEAR GEYSERVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	JANUARY				FEBRUARY				MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)		
1	1570	195	827	487	20	26	1570	346	1630		
2	1590	188	807	423	15	17	1800	215	1040		
3	1490	181	756	375	13	13	1490	140	563		
4	4130	891	9950	336	14	13	1230	90	299		
5	3860	495	5160	295	14	11	1000	61	165		
6	3310	312	2790	263	13	9.2	849	48	110		
7	2780	250	1880	240	13	8.4	749	42	85		
8	2060	212	1180	223	13	7.8	770	42	87		
9	1370	170	629	207	12	6.7	739	34	68		
10	952	119	306	194	12	6.3	645	29	51		
11	718	79	153	181	9	4.4	700	27	51		
12	551	61	91	169	16	7.3	690	25	47		
13	449	61	74	217	32	23	671	22	40		
14	393	63	67	675	133	287	622	18	30		
15	351	78	74	3070	817	7640	568	23	35		
16	316	66	56	4380	928	11100	601	26	42		
17	287	44	34	3640	535	5260	608	20	33		
18	269	30	22	3210	335	2900	556	20	30		
19	327	58	55	2710	300	2200	497	24	32		
20	667	125	227	2050	241	1330	453	19	23		
21	734	82	163	1400	210	794	417	21	24		
22	582	58	91	977	180	475	389	15	16		
23	486	41	54	758	168	344	367	19	19		
24	443	21	25	643	135	234	347	15	14		
25	401	14	15	579	86	134	333	12	11		
26	504	40	57	553	49	73	318	11	9.4		
27	550	33	49	650	45	79	301	13	11		
28	731	59	117	576	29	45	346	27	25		
29	730	56	110	---	---	---	474	76	106		
30	642	46	80	---	---	---	1330	191	1010		
31	566	27	41	---	---	---	3770	612	6300		
TOTAL	33809	---	25940	29481	---	33048.1	25200	---	12006.4		

DAY	APRIL				MAY				JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)		
1	3180	390	3350	219	20	12	59	8	1.3		
2	3450	372	3480	204	18	9.9	58	7	1.1		
3	3440	340	3160	187	30	15	56	11	1.7		
4	2990	205	1650	172	30	14	54	13	1.9		
5	2490	175	1180	161	20	8.7	52	15	2.1		
6	1910	160	825	153	14	5.8	50	12	1.6		
7	1390	148	555	144	14	5.4	48	12	1.6		
8	1090	85	250	134	14	5.1	46	11	1.4		
9	875	70	165	127	15	5.1	44	11	1.3		
10	1320	156	782	120	14	4.5	43	12	1.4		
11	3350	505	4590	116	17	5.3	41	8	.89		
12	2980	288	2320	110	22	6.5	39	7	.74		
13	2720	202	1480	105	15	4.3	38	9	.92		
14	2600	152	1070	101	13	3.5	37	10	1.0		
15	2130	150	863	96	12	3.1	36	9	.87		
16	1630	139	612	90	7	1.7	35	5	.47		
17	1270	89	305	86	8	1.9	34	7	.64		
18	1020	72	198	82	11	2.4	32	7	.60		
19	814	55	121	82	9	2.0	33	7	.62		
20	680	59	107	80	12	2.6	32	6	.52		
21	582	42	66	77	10	2.1	31	2	.17		
22	504	37	50	75	11	2.2	29	5	.39		
23	436	38	45	72	11	2.1	28	7	.53		
24	383	42	43	70	10	1.9	27	6	.44		
25	349	32	30	66	15	2.7	26	6	.42		
26	321	23	20	65	17	3.0	26	5	.35		
27	297	27	22	65	15	2.6	27	5	.36		
28	273	28	21	64	16	2.8	27	4	.29		
29	251	23	16	62	14	2.3	28	6	.45		
30	234	22	14	61	18	3.0	28	4	.30		
31	---	---	---	60	10	1.6	---	---	---		
TOTAL	44959	---	27390	3306	---	145.1	1144	---	26.37		

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	27	6	.44	6.3	5	.09	1.1	3	.01
2	28	7	.53	5.6	5	.08	.95	3	.01
3	29	6	.47	4.6	5	.06	.95	3	.01
4	28	6	.45	4.8	5	.06	.79	2	0
5	27	5	.36	3.5	5	.05	.63	2	0
6	25	7	.47	3.0	4	.03	.58	2	0
7	21	7	.40	3.8	4	.04	.58	2	0
8	19	6	.31	4.0	4	.04	.58	2	0
9	17	3	.14	3.4	4	.04	.58	2	0
10	17	6	.28	2.9	4	.03	.50	2	0
11	17	3	.14	2.5	4	.03	.45	2	0
12	15	3	.12	2.5	4	.03	.45	2	0
13	10	4	.11	2.3	4	.02	.45	2	0
14	8.5	5	.11	2.3	4	.02	.45	2	0
15	10	3	.08	2.3	4	.02	.45	2	0
16	10	4	.11	2.3	4	.02	.40	2	0
17	7.2	2	.04	2.2	4	.02	.45	2	0
18	7.1	2	.04	2.0	4	.02	17	70	3.2
19	7.0	3	.06	1.7	4	.02	21	80	4.5
20	6.1	2	.03	1.7	3	.01	14	70	2.6
21	6.0	5	.08	1.8	3	.01	8.3	50	1.1
22	6.0	5	.08	1.7	3	.01	5.2	20	.28
23	5.9	5	.08	1.7	3	.01	4.2	10	.11
24	6.0	5	.08	1.7	3	.01	3.7	5	.05
25	6.2	5	.08	1.7	3	.01	3.7	5	.05
26	6.0	5	.08	1.8	3	.01	3.7	5	.05
27	5.8	5	.08	1.6	3	.01	2.8	2	.02
28	5.7	5	.08	1.3	3	.01	2.0	1	0
29	5.6	5	.08	1.2	3	.01	1.6	1	0
30	6.0	5	.08	1.2	3	.01	1.6	1	0
31	6.6	5	.09	1.3	3	.01	---	---	---
TOTAL	401.7	---	5.58	80.7	---	.84	99.14	---	11.99
YEAR 213969.2			199881.1						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1981	94.70	43.95	0	44
NOVEMBER ...	28389.00	31053.80	1550	32600
DECEMBER ...	47005.00	70209.00	4280	74500
JANUARY 1982	33809.00	25940.00	1860	27800
FEBRUARY ...	29481.00	33048.10	1930	35000
MARCH	25200.00	12006.40	829	12800
APRIL	44959.00	27390.00	2830	30200
MAY	3306.00	145.10	0	145
JUNE	1144.00	26.37	0	26
JULY	407.70	5.58	0	6
AUGUST	80.70	0.84	0	1
SEPTEMBER ..	99.14	11.99	0	12
TOTAL	213969.24	199881.13	13279	213134

RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	TEMPER- ATURE (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
OCT 29...	1220	14.0	5.5	30	.45	--	--	--	--
NOV 06...	1055	14.5	20	82	4.4	--	--	--	--
16...	1520	15.5	2520	416	2830	57	75	84	89
17...	1235	14.5	2940	393	3120	55	72	82	87
DEC 20...	0920	13.0	5800	913	14300	51	68	81	90
JAN 19...	1510	9.0	320	72	62	--	--	--	--
FEB 16...	0830	12.0	4490	965	11700	51	69	83	93
MAR 02...	1115	12.0	1830	232	1150	51	67	76	81
APR 20...	1345	15.5	677	105	192	--	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
OCT 29...	--	99	99	100	--	--	--
NOV 06...	--	98	99	100	--	--	--
16...	91	93	95	97	100	--	--
17...	89	90	93	95	97	98	100
DEC 20...	93	96	98	100	--	--	--
JAN 19...	--	94	97	100	--	--	--
FEB 16...	96	96	98	100	--	--	--
MAR 02...	83	84	87	93	97	99	100
APR 20...	--	41	72	96	100	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM
NOV 17...	1535	14.5	7	2940	--	--	2	8
SEP 30...	1120	16.5	4	1.4	1	2	4	9

DATE	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
NOV 17...	16	29	45	74	94	100
SEP 30...	16	30	52	76	90	100

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY,
WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SEDI- MENT, SUS- PENDED (MG/L)	TUR- BID- ITY (NTU)	DATE	TIME	SEDI- MENT, SUS- PENDED (MG/L)	TUR- BID- ITY (NTU)
OCT				DEC			
29...	1220	30	26	22...	0825	515	330
NOV				22...	1340	511	330
06...	1055	82	70	23...	0840	476	320
14...	1315	651	380	24...	0920	409	290
15...	0825	1110	800	24...	1325	388	280
16...	0850	615	380	25...	0910	336	220
16...	1315	508	260	26...	0915	294	190
16...	1520	416	310	26...	1310	280	200
16...	1540	466	280	27...	0925	176	130
17...	0900	446	290	27...	1320	212	130
17...	1235	393	270	28...	0915	163	110
17...	1340	396	270	28...	1325	171	110
17...	1410	398	300	29...	0920	885	300
18...	0945	314	230	29...	1325	603	220
18...	1315	294	140	30...	0910	317	280
19...	0900	271	210	30...	1315	392	240
19...	1320	228	180	31...	0915	231	170
20...	0920	148	130	31...	1315	213	170
20...	1310	137	110	JAN			
21...	0950	1700	700	01...	0915	181	130
21...	1320	778	280	01...	1315	201	150
22...	0900	390	280	02...	0840	190	130
22...	1310	349	260	02...	1325	186	140
23...	0850	283	230	03...	0955	150	110
23...	1100	388	230	03...	1320	148	100
23...	1430	267	140	04...	1000	966	360
24...	0845	290	160	04...	1325	889	360
24...	1405	329	230	05...	0855	519	280
25...	0910	309	210	05...	1330	455	260
25...	1310	280	200	06...	0930	318	200
26...	0910	156	100	06...	1325	308	170
27...	0935	113	65	07...	0820	253	160
27...	1320	86	65	07...	1320	238	170
28...	0920	92	70	08...	0950	222	160
28...	1315	86	65	08...	1325	207	130
29...	0900	71	60	09...	0950	153	80
29...	1315	65	55	09...	1340	181	75
30...	0930	42	38	10...	0905	119	75
30...	1355	57	37	10...	1320	106	60
DEC				11...	0920	84	35
01...	0830	41	32	11...	1415	74	40
01...	1315	39	26	12...	0905	66	36
02...	0845	29	21	12...	1325	57	32
02...	1325	33	22	13...	0855	66	38
03...	0930	25	16	13...	1325	62	38
03...	1250	18	15	14...	0855	68	40
03...	1300	24	15	14...	1320	60	38
03...	1340	27	15	15...	0905	72	32
04...	0920	17	10	15...	1450	95	45
04...	1325	22	13	16...	0900	41	24
05...	0915	18	10	16...	1355	71	33
05...	1310	23	11	17...	0945	43	22
06...	0940	20	10	17...	1320	48	24
07...	0850	23	10	18...	0925	31	19
08...	0920	16	7.0	18...	1330	27	16
09...	0810	16	6.0	19...	0945	40	20
10...	0910	80	40	19...	1325	42	24
11...	0900	74	60	19...	1510	72	38
11...	1310	76	65	20...	0850	95	34
12...	0915	65	55	20...	1320	166	70
12...	1315	61	50	21...	0925	81	38
12...	1330	41	36	21...	1315	78	45
13...	0855	34	26	22...	0925	61	42
13...	1315	31	26	22...	1330	57	40
14...	0905	32	21	23...	0925	41	33
14...	1355	29	18	23...	1315	43	33
15...	0915	47	31	24...	0905	22	18
15...	1315	34	21	24...	1320	20	18
16...	0855	29	18	25...	0925	13	13
16...	1320	30	20	25...	1405	15	13
17...	0925	24	18	26...	0930	38	21
17...	1315	16	27	26...	1325	48	23
18...	0905	36	26	27...	0900	31	18
18...	1330	1190	550	27...	1335	32	21
19...	0850	1250	650	28...	0900	62	31
19...	1320	1110	550	28...	1315	64	31
20...	0920	913	500	29...	0900	53	33
20...	1325	849	450	29...	1325	59	38
21...	0925	610	380	30...	0855	49	35
21...	1315	568	370				

RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY,
WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SEDI- MENT, SUS- PENDED (MG/L)	TUR- BID- ITY (NTU)	DATE	TIME	SEDI- MENT, SUS- PENDED (MG/L)	TUR- BID- ITY (NTU)
JAN				APR			
31...	0855	29	26	04...	0850	208	130
31...	1325	26	19	05...	0905	171	110
FEB				06...	0900	163	100
01...	0925	19	16	07...	0840	151	85
01...	1340	20	15	08...	0900	92	55
02...	0915	15	12	09...	0915	67	40
02...	1320	15	12	10...	0900	51	33
03...	0905	15	8.0	11...	0825	641	280
03...	1315	12	8.0	12...	0835	302	170
04...	0845	14	5.0	13...	0910	206	120
05...	0925	14	8.0	14...	0845	151	95
06...	0830	13	7.0	15...	0905	148	120
07...	0955	13	6.0	16...	0855	146	75
08...	0920	13	6.0	17...	0910	91	50
09...	0920	12	6.0	18...	0855	74	40
10...	0845	12	6.0	19...	0825	60	31
11...	0935	9	4.0	20...	0930	40	21
12...	0905	16	4.0	20...	1345	105	22
13...	0900	10	4.0	21...	0825	42	23
14...	0845	37	6.0	22...	0815	37	19
15...	0920	943	250	23...	0835	38	17
16...	0830	965	450	24...	0805	45	17
16...	1355	885	350	25...	0800	34	17
17...	0905	551	320	26...	0900	23	14
17...	1315	511	290	27...	0845	26	15
18...	0920	335	190	28...	0830	31	14
18...	1325	324	170	29...	0845	23	12
19...	0910	311	180	30...	0825	22	13
19...	1320	296	180	MAY			
20...	0830	250	110	01...	0825	20	8.0
21...	0855	--	140	02...	0825	18	6.0
22...	0855	186	120	03...	0835	36	6.0
23...	0925	175	120	04...	0835	33	6.0
24...	0855	142	90	05...	0820	24	7.0
25...	0910	91	65	06...	0815	14	6.0
26...	0850	47	37	07...	0830	14	5.0
27...	0840	49	30	08...	0825	14	6.0
28...	0850	27	17	09...	0835	15	5.0
MAR				10...	0845	14	5.0
01...	0905	532	130	11...	0825	17	5.0
01...	1345	467	140	12...	0825	22	6.0
02...	0900	268	160	13...	0820	15	7.0
02...	1110	232	130	14...	0820	13	6.0
02...	1115	232	--	15...	0830	12	5.0
02...	1345	247	140	16...	0830	7	3.0
03...	0935	148	95	17...	0820	8	3.0
03...	1400	133	90	18...	0820	11	5.0
04...	0910	113	60	19...	0820	9	4.0
04...	1320	86	55	20...	0815	12	4.0
05...	0905	63	45	21...	0835	10	4.0
06...	0835	49	26	22...	0840	11	3.0
07...	0910	42	24	23...	0750	11	4.0
08...	0850	48	25	24...	0810	10	3.0
09...	0900	34	20	25...	0805	15	4.0
10...	0825	29	21	26...	0805	17	8.0
11...	0835	27	17	27...	0820	15	7.0
12...	0855	25	19	28...	0830	16	6.0
13...	0900	22	16	29...	0840	14	8.0
14...	0905	18	12	30...	0800	18	8.0
15...	0900	23	11	31...	0805	10	4.0
16...	0855	26	14	JUN			
17...	0845	20	13	01...	0812	8	3.0
18...	0905	19	12	02...	0815	7	3.0
19...	0905	25	12	03...	0810	11	5.0
20...	0900	17	11	04...	0825	13	7.0
21...	0900	25	10	05...	0830	15	9.0
22...	0840	14	7.0	06...	0805	12	7.0
23...	0850	20	7.0	07...	0805	--	6.0
24...	0905	16	7.0	08...	0815	11	8.0
25...	0840	12	6.0	09...	0805	11	7.0
26...	0830	11	6.0	10...	0825	12	8.0
27...	0900	12	6.0	11...	0820	8	6.0
28...	0905	29	13	12...	0835	7	5.0
29...	0915	23	13	13...	0815	9	5.0
30...	0900	65	35	14...	0840	10	4.0
31...	0840	687	280	15...	0820	9	4.0
APR				16...	0820	7	4.0
01...	0830	398	190	16...	1345	6	3.0
02...	0915	378	200	16...	1350	3	4.0
03...	0920	353	170	17...	0820	7	4.0

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY,
WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SEDI- MENT, SUS- PENDED (MG/L)	TUR- BID- ITY (NTU)
JUN			
18...	0835	7	5.0
19...	0835	7	4.0
20...	0805	6	3.0
21...	0820	2	4.0
22...	0820	5	3.0
23...	0810	7	4.0
24...	0820	6	3.0
25...	0810	6	3.0
26...	0805	5	3.0
27...	0800	5	3.0
28...	0810	4	3.0
29...	0805	6	2.0
30...	0805	4	2.0
JUL			
01...	0810	6	3.0
02...	0810	7	3.0
03...	0820	6	4.0
04...	0805	6	3.0
05...	0820	5	3.0
06...	0805	7	3.0
07...	0810	7	2.0
08...	0820	6	2.0
09...	0820	3	2.0
10...	0800	6	2.0
11...	0800	3	2.0
12...	0805	3	2.0
13...	0810	4	1.0
14...	0805	5	3.0
15...	0800	3	2.0
15...	1030	--	1.7
15...	1031	--	1.3
15...	1032	--	1.4
15...	1033	--	1.2
16...	0810	4	2.0
17...	0815	2	1.0
18...	0815	2	1.0
19...	0810	3	1.0
20...	0810	2	1.0
21...	0815	5	1.0
22...	0815	5	1.0
23...	0820	5	1.0

RUSSIAN RIVER BASIN

11465350 DRY CREEK NEAR MOUTH, NEAR HEALDSBURG, CA

LOCATION.--Lat 38°35'15", long 122°51'40", in Sotoyome Grant, Sonoma County, Hydrologic Unit 18010110, on right bank 0.25 mi (0.40 km) upstream from mouth, 0.4 mi (0.64 km) downstream from Mill Creek, and 1.7 mi (2.7 km) south of Healdsburg.

DRAINAGE AREA.--217 mi² (562 km²).

PERIOD OF RECORD.--November 1980 to current year (low flow only).

GAGE.--Water-stage recorder. Altitude of gage is 50 ft (15.2 m) from topographic map.

REMARKS.--Records poor. No records computed above 200 ft³/s (5.66 m³/s).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0						---	64	19		
2	0	0						---	62	18		
3	0	0						---	60	18		
4	0	0						---	57	18		
5	0	0						---	54	17		
6	0	0						---	52	15		
7	0	0						---	49	13		
8	0	0						189	46	13		
9	0	0						177	39	10		
10	0	0						169	42	8.8		
11	0	0						165	39	7.8		
12	0	---						157	38	7.4		
13	0	---						154	35	6.2		
14	0	---						148	32	4.6		
15	0	---						141	25	2.2		
16	0	---						134	25	.02		
17	0	---						125	25	0		
18	0	---						114	24	0		
19	0	---						112	23	0		
20	0	---						107	22	0		
21	0	---						108	22	0		
22	0	---						104	21	0		
23	0	---						100	20	0		
24	0	---						97	19	0		
25	0	---						89	18	0		
26	0	---						78	17	0		
27	0	---						74	18	0		
28	2.5	---						71	20	0		
29	0	---						69	21	0		
30	0	---						68	21	0		
31	0	---						67	---	0		
TOTAL	2.5	---						---	1010	178.02	0	0
MEAN	.081	---						---	33.7	5.74	0	0
MAX	2.5	---						---	64	19	0	0
MIN	0	---						---	17	0	0	0
AC-FT	5.0	---						---	2000	353	0	0

11466500 LAGUNA DE SANTA ROSA NEAR GRATON, CA

LOCATION.--Lat 38°27'10", long 122°50'03", in Molinos Grant, Sonoma County, Hydrologic Unit 18010110, 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 National Geodetic Vertical Datum of 1929 (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. Figures given herein represent elevations above 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, 66.96 ft (20.409 m) Jan. 4.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	---	55.60	---	---	58.50					
2		---	---	55.40	---	---	58.50					
3		---	---	55.50	---	---	58.00					
4		---	---	66.50	---	---	56.00					
5		---	---	62.10	---	---	---					
6		---	---	57.90	---	---	---					
7		---	---	55.70	---	---	---					
8		---	---	---	---	---	---					
9		---	---	---	---	---	---					
10		---	---	---	---	---	56.70					
11		---	---	---	---	---	58.30					
12		---	---	---	---	---	56.60					
13		---	---	---	---	---	55.30					
14		---	---	---	57.00	---	---					
15		---	---	---	63.90	---	---					
16		55.20	---	---	62.10	---	---					
17		---	---	---	58.20	---	---					
18		---	58.10	---	55.70	---	---					
19		---	65.70	---	---	---	---					
20		---	65.30	---	---	---	---					
21		58.70	60.60	---	---	---	---					
22		56.70	57.10	---	---	---	---					
23		56.70	55.10	---	---	---	---					
24		56.00	---	---	---	---	---					
25		---	---	---	---	---	---					
26		---	---	---	---	---	---					
27		---	---	---	---	---	---					
28		---	---	55.30	---	---	---					
29		---	59.60	---	---	---	---					
30		---	57.20	---	---	57.10	---					
31		---	55.70	---	---	61.10	---					
MEAN		---	---	---	---	---	---					
MAX		---	---	---	---	---	---					
MIN		---	---	---	---	---	---					

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, Hydrologic Unit 18010110, 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 mi² (3,465 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1395: Drainage area at former site. WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 20.14 ft (6.139 m) National Geodetic Vertical Datum of 1929. 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 km²). 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 km²) upstream, and by diversion at Wohler pumping plant beginning in May 1959.

AVERAGE DISCHARGE.--43 years, 2,308 ft³/s (65.3 m³/s), 1,672,000 acre-ft/yr (2.06 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 93,400 ft³/s (2,650 m³/s) Dec. 23, 1964, gage height, 49.6 ft (15.12 m) site and datum then in use, from floodmarks; maximum gage height, 49.7 ft (15.15 m) Dec. 23, 1955, site and datum then in use, from floodmarks; minimum daily discharge, 0.75 ft³/s (0.021 m³/s) May 6, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 23,000 ft³/s (651 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 17	0915	24,500 694	23.27 7.093	Jan. 4	2330	58,900 1,670	37.16 11.326
Nov. 24	0630	31,600 895	26.44 8.059	Feb. 16	0830	56,800 1,610	36.40 11.095
Dec. 20	1130	*67,200 1,900	40.09 12.219	Mar. 31	1830	47,500 1,350	32.85 10.013
Dec. 30	0300	26,400 748	24.16 7.364	Apr. 11	1215	39,600 1,120	29.69 9.050

Minimum daily, 131 ft³/s (3.71 m³/s) Sept. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	162	310	3470	13700	3830	8420	34600	1990	547	329	156	189
2	157	273	3090	12800	3530	12000	27000	1870	518	284	158	186
3	164	240	2790	11300	3280	8780	31400	1790	518	212	162	186
4	166	226	2530	39600	2900	6950	20700	1690	504	228	162	187
5	262	219	2230	51500	2500	5580	15000	1590	507	230	163	182
6	194	212	1940	28700	2270	4720	13200	1500	501	220	166	179
7	189	203	1980	16600	2100	4180	10400	1430	479	209	168	313
8	180	199	2060	11900	1970	4120	8520	1370	500	199	172	174
9	172	196	1940	8490	1870	3840	6670	1310	471	183	174	159
10	184	193	3320	6170	1770	3640	9010	1250	449	173	173	151
11	187	191	3020	5090	1660	4490	35000	1210	457	165	173	145
12	163	238	2730	4380	1560	4140	25900	1170	461	155	173	140
13	159	855	3480	3850	1810	3520	18600	1120	451	163	173	134
14	181	5710	4500	3450	4530	3320	17900	1080	401	157	173	131
15	185	4540	4630	3110	24800	3140	13700	1020	396	150	173	133
16	198	21400	4690	2810	53900	3410	10200	976	380	148	193	141
17	172	20200	4070	2570	34200	3580	7990	934	363	155	205	176
18	165	8480	6320	2430	19500	3370	6570	876	355	165	200	199
19	162	4600	47300	2760	14200	3060	5500	725	359	170	203	195
20	158	3000	64300	5530	9980	2770	4640	632	358	171	199	183
21	154	10700	47200	6000	6970	2520	4040	636	354	164	200	174
22	146	18800	26400	4540	5540	2300	3600	610	365	155	200	169
23	134	12700	17700	3780	4590	2140	3260	588	349	144	194	165
24	141	25500	14000	3650	4010	2000	3010	549	337	143	190	169
25	146	12000	9860	3400	3630	1890	2830	519	317	150	191	189
26	142	8470	7200	4640	3380	2210	2650	433	313	158	193	177
27	164	8690	6030	5820	3660	2970	2480	469	318	162	194	171
28	532	6370	5080	6960	3320	2980	2350	555	316	163	194	168
29	1030	4870	12800	7210	---	3300	2220	569	321	147	198	168
30	567	4050	22000	5450	---	8660	2100	554	327	153	202	162
31	385	---	13500	4400	---	42000	---	564	---	156	197	---
TOTAL	7101	183635	352110	292590	227260	170000	351040	31579	12292	5561	5672	5195
MEAN	229	6121	11360	9438	8116	5484	11700	1019	410	179	183	173
MAX	1030	25500	64300	51500	53900	42000	35000	1990	547	329	205	313
MIN	134	191	1940	2430	1560	1890	2100	433	313	143	156	131
AC-FT	14080	364200	698400	580400	450800	337200	696300	62640	24380	11030	11250	10300

CAL YR 1981 TOTAL 943353 MEAN 2585 MAX 64300 MIN 79 AC-FT 1871000
WTH YR 1982 TOTAL 1644035 MEAN 4504 MAX 64300 MIN 131 AC-FT 3261000

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.

CHEMICAL ANALYSES: Water years 1951 to current year. Published as "at Guerneville" in 1961-65.

BIOLOGICAL DATA: Water years 1975-81.

SPECIFIC CONDUCTANCE: Water years 1974-81.

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 1973-81.

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 from January 1964 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS (water years 1970-82): Maximum daily mean, 2,350 mg/L Jan. 16, 1974; minimum daily mean, 2 mg/L Dec. 12, 27, 1978; Nov. 15, 16, 25, 26, 1980; Sept. 28, 1982.

SEDIMENT DISCHARGE (water years 1970-82): Maximum daily, 356,000 tons (323,000 metric tons) Dec. 20, 1981; minimum daily, 0.03 ton (0.03 metric ton) May 6, 1977.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,030 mg/L Dec. 20; minimum daily mean, 2 mg/L Sept. 28.

SEDIMENT DISCHARGE: Maximum daily, 356,000 tons (323,000 metric tons) Dec. 20; minimum daily, 0.91 ton (0.83 metric ton) Sept. 28.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER AS CAC03)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)
NOV 18...	1000	8570	155	7.2	12.5	160	9.3	720	1500	63	6
JAN 21...	1315	5910	189	6.7	8.0	150	11.2	K200	3600	65	0
MAR 05...	1015	5630	191	7.0	11.0	44	9.9	290	4200	89	11
MAY 19...	1130	748	271	8.0	18.0	4.0	9.5	23	20	127	7
JUL 12...	1150	159	286	7.8	25.5	3.2	9.3	K19	K8	134	4
SEP 13...	1200	139	250	7.4	22.5	2.1	8.5	--	--	120	20

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
NOV 18...	13	7.4	6.6	18	.4	1.9	57	5.0	6.5	.1
JAN 21...	12	8.6	7.6	20	.4	2.0	77	5.0	6.3	.1
MAR 05...	19	10	7.3	15	.3	1.2	78	6.0	4.7	.1
MAY 19...	26	15	9.5	14	.4	1.3	120	11	6.0	.2
JUL 12...	29	15	9.8	14	.4	1.3	130	16	6.4	.1
SEP 13...	25	14	8.9	14	.4	1.0	100	13	5.7	.1

See footnotes at end of table.

RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
NOV 18...	15	138	86	.19	.57	.18	.65	.19	.15	.14
JAN 21...	23	114	101	.16	.55	.29	1.1	.31	.06	.25
MAY 05...	18	119	119	.16	.37	.11	.76	.10	.10	.07
MAY 19...	14	159	155	.22	--	--	--	--	--	--
JUL 12...	13	167	171	.23	<.10	.07	1.3	.08	.07	.03
SEP 13...	13	155	154	.21	<.10	.11	.50	.06	.02	.02

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)
NOV 18...	1000	3	1	100	44	<1	<1	60	<10	9
JAN 21...	1315	3	1	100	36	<1	<1	30	<10	6
MAY 19...	1130	1	1	<100	79	<1	<3	10	<10	1
SEP 13...	1200	2	1	300	87	<1	<1	<10	<10	<1

DATE	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
NOV 18...	<3	25	2	16000	160	3	--	360	12	.3
JAN 21...	<3	34	2	14000	120	3	3	320	11	.2
MAY 19...	<1	5	1	520	<9	2	1	50	24	.1
SEP 13...	<1	<1	1	270	8	<1	<1	20	5	.1

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 18...	.3	100	6	<1	<1	<1	<1	40	5
JAN 21...	<.1	43	5	<1	<1	<1	<1	70	<3
MAY 19...	<.1	6	2	<1	<1	<1	<1	10	<12
SEP 13...	<.1	<1	<1	<1	<1	<1	<1	10	5

K Results based on colony count outside the acceptable range (non-ideal colony count).
 < Actual value is known to be less than the value shown.

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	10.0	---	9.0	10.5	10.0	16.5	18.5	21.0	---	23.0
2	---	14.5	---	---	10.0	11.0	---	17.0	---	22.0	---	23.0
3	---	---	---	---	9.5	10.0	---	17.0	18.0	---	24.0	23.5
4	---	---	11.5	---	9.0	10.5	---	18.0	---	---	25.0	24.0
5	---	---	12.0	9.0	8.5	11.0	10.5	17.0	---	---	---	23.0
6	---	---	12.5	8.5	7.0	11.0	10.0	16.5	---	---	---	23.0
7	---	---	---	7.5	8.0	10.5	11.0	---	---	20.0	---	23.0
8	---	---	13.0	8.5	9.0	11.0	10.5	---	---	20.0	---	23.0
9	---	---	---	8.5	10.0	---	11.0	---	16.0	---	25.0	23.0
10	---	---	11.5	9.0	9.0	---	---	---	---	---	---	23.0
11	---	---	10.5	9.0	8.5	---	---	16.0	19.0	---	---	24.0
12	---	18.0	---	9.5	---	---	---	18.5	---	25.5	25.0	23.0
13	---	15.5	11.0	10.0	---	---	13.0	20.0	---	---	---	22.5
14	---	---	12.5	8.5	---	10.5	12.0	20.0	---	---	---	23.0
15	---	---	---	9.0	12.5	11.0	11.0	20.0	24.0	---	---	---
16	---	15.5	11.0	8.5	13.0	10.0	12.0	20.0	---	---	---	23.0
17	10.5	12.5	10.5	8.5	11.0	10.0	12.5	20.5	22.0	---	24.0	20.0
18	---	---	---	9.5	14.5	10.0	13.0	16.5	---	---	---	---
19	---	13.0	12.0	8.5	---	10.5	14.5	18.0	---	---	---	19.0
20	---	14.0	---	7.5	---	11.0	17.0	20.5	---	---	23.0	---
21	---	13.5	---	8.0	14.5	10.5	17.5	21.0	---	---	---	22.0
22	---	14.0	---	6.5	11.0	10.5	16.0	21.0	22.0	---	---	---
23	---	14.5	11.0	---	---	10.0	17.0	22.0	---	---	---	22.0
24	---	13.0	---	9.0	---	10.0	---	22.0	22.0	---	---	21.5
25	---	---	---	9.0	---	10.5	15.0	20.0	---	---	---	---
26	---	---	---	10.0	11.0	11.0	17.0	22.5	---	---	22.0	---
27	---	---	---	8.5	10.0	11.0	18.0	22.0	---	---	---	21.5
28	---	---	---	9.0	10.0	12.0	17.5	18.0	---	23.5	---	21.5
29	---	---	---	7.5	---	11.0	18.0	18.0	---	25.0	---	---
30	---	---	---	---	---	10.5	17.0	18.0	---	24.0	---	22.0
31	---	---	---	---	---	10.0	---	18.0	---	---	---	---
MONTH	---	---	---	---	---	10.5	---	19.0	---	---	---	---

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	162	5	2.2	310	23	19	3470	76	712
2	157	5	2.1	273	16	12	3090	69	576
3	164	5	2.2	240	15	9.7	2790	59	444
4	166	5	2.2	226	14	8.5	2530	48	328
5	262	13	12	219	14	8.3	2230	50	301
6	194	10	5.2	212	13	7.4	1940	48	251
7	189	10	5.1	203	13	7.1	1980	48	257
8	180	10	4.9	199	12	6.4	2060	48	267
9	172	10	4.6	196	11	5.8	1940	61	320
10	184	10	5.0	193	11	5.7	3320	161	1490
11	187	10	5.0	191	10	5.2	3020	90	734
12	163	10	4.4	238	15	9.6	2730	104	767
13	159	10	4.3	855	85	173	3480	105	987
14	181	10	4.9	5710	343	5910	4500	149	1840
15	185	11	5.5	4540	286	4430	4630	145	1810
16	198	53	30	21400	818	48200	4690	120	1520
17	172	67	31	20200	739	41800	4020	113	1230
18	165	41	18	8480	341	7810	6320	158	3660
19	162	30	13	4600	182	2260	47300	832	112000
20	158	22	9.4	3000	95	770	64300	2030	356000
21	154	15	6.2	10700	602	25000	47200	900	115000
22	146	10	3.9	18800	473	27100	26400	500	35600
23	134	10	3.6	12700	331	14800	17700	402	19200
24	141	10	3.8	25500	1030	75500	14000	359	13600
25	146	10	3.9	12000	308	9980	9860	336	8940
26	142	10	3.8	8470	132	3020	7200	325	6320
27	164	20	8.9	8690	228	5420	6030	312	5080
28	532	82	157	6370	98	1690	5080	300	4110
29	1030	89	248	4870	80	1050	12800	473	20000
30	567	54	83	4050	77	842	22000	666	41200
31	385	36	37	---	---	---	13500	435	15900
TOTAL	7101	---	730.1	183635	---	275859.7	352110	---	770444

RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	13700	554	20500	3830	64	662	8420	303	8810
2	12800	540	18700	3530	61	581	12000	235	7610
3	11300	455	13900	3280	47	416	8780	145	3440
4	39600	1000	123000	2900	38	298	6950	118	2210
5	51500	540	77600	2500	39	263	5580	114	1720
6	28700	321	24900	2270	31	190	4720	76	969
7	16600	275	12300	2100	30	170	4180	48	542
8	11900	250	8030	1970	28	149	4120	41	456
9	8490	212	4860	1870	26	131	3840	40	415
10	6170	148	2470	1770	22	105	3640	41	403
11	5090	122	1680	1660	20	90	4490	42	509
12	4380	100	1180	1560	22	93	4140	43	481
13	3850	100	1040	1810	89	435	3520	45	428
14	3450	96	894	4530	323	4090	3320	45	403
15	3110	83	697	24800	638	48600	3140	47	398
16	2810	63	478	53900	1040	151000	3410	46	424
17	2570	52	361	34200	468	45600	3580	40	387
18	2430	41	269	19500	252	13300	3370	27	246
19	2760	64	477	14200	220	8430	3060	25	207
20	5530	245	3890	9980	205	5520	2770	26	194
21	6000	159	2580	6970	190	3580	2520	23	156
22	4540	91	1120	5540	107	1600	2300	21	130
23	3780	77	786	4590	79	979	2140	25	144
24	3650	61	601	4010	72	780	2000	17	92
25	3400	64	588	3630	66	647	1890	18	92
26	4640	139	1740	3380	62	566	2210	29	173
27	5820	195	3060	3660	76	751	2970	56	449
28	6960	226	4340	3320	48	430	2980	50	402
29	7210	189	3680	---	---	---	3300	72	642
30	5450	102	1500	---	---	---	8660	430	12700
31	4400	65	772	---	---	---	42000	888	101000
TOTAL	292590	---	337993	227260	---	289456	170000	---	146232
DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	34600	459	43900	1990	12	64	547	12	18
2	27000	401	32600	1870	14	71	518	13	18
3	31400	501	44000	1790	12	58	518	14	20
4	20700	280	15600	1690	10	46	504	14	19
5	15000	194	7860	1590	12	52	507	14	19
6	13200	155	5520	1500	12	49	501	14	19
7	10400	213	5980	1430	12	46	479	13	17
8	8520	185	4260	1370	12	44	500	13	18
9	6670	170	3060	1310	13	46	471	13	17
10	9010	242	6760	1250	13	44	449	13	16
11	35000	689	66700	1210	13	42	457	12	15
12	25900	342	23900	1170	12	38	461	11	14
13	18600	295	14800	1120	16	48	451	11	13
14	17900	295	14300	1080	16	47	401	10	11
15	13700	255	9430	1020	14	39	396	9	9.6
16	10200	206	5670	976	15	40	380	10	10
17	7990	180	3880	934	14	35	363	11	11
18	6570	152	2700	876	20	47	355	11	11
19	5500	121	1800	725	17	33	359	10	9.7
20	4640	110	1380	632	13	22	358	10	9.7
21	4040	86	938	636	11	19	354	9	8.6
22	3600	83	807	610	9	15	365	9	8.9
23	3260	50	440	588	9	14	349	10	9.4
24	3010	49	398	549	10	15	337	10	9.1
25	2830	49	374	519	13	18	317	10	8.6
26	2650	49	351	433	13	15	313	9	7.6
27	2480	35	234	469	13	16	318	8	6.9
28	2350	43	273	555	14	21	316	7	6.0
29	2220	38	228	569	11	17	321	6	5.2
30	2100	32	181	554	12	18	327	5	4.4
31	---	---	---	564	12	18	---	---	---
TOTAL	351040	---	318324	31579	---	1097	12292	---	369.7

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

	JULY				AUGUST				SEPTEMBER			
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)			
1	329	5	4.4	156	7	2.9	189	7	3.6			
2	284	6	4.6	158	8	3.4	186	6	3.0			
3	212	7	4.0	162	8	3.5	186	6	3.0			
4	228	8	4.9	162	9	3.9	187	7	3.5			
5	230	9	5.6	163	9	4.0	182	7	3.4			
6	220	10	5.9	166	9	4.0	179	7	3.4			
7	209	12	6.8	168	8	3.6	313	12	10			
8	199	9	4.8	172	8	3.7	174	8	3.8			
9	183	8	4.0	174	8	3.8	159	8	3.4			
10	173	7	3.3	173	8	3.7	151	9	3.7			
11	165	6	2.7	173	8	3.7	145	18	7.0			
12	155	9	3.8	173	8	3.7	140	19	7.2			
13	163	9	4.0	173	8	3.7	134	7	2.5			
14	157	8	3.4	173	9	4.2	131	5	1.8			
15	150	8	3.2	173	9	4.2	133	5	1.8			
16	148	7	2.8	193	10	5.2	141	6	2.3			
17	155	7	2.9	205	10	5.5	176	6	2.9			
18	165	6	2.7	200	11	5.9	199	7	3.8			
19	170	6	2.8	203	13	7.1	195	6	3.2			
20	171	5	2.3	199	14	7.5	183	5	2.5			
21	164	5	2.2	200	13	7.0	174	4	1.9			
22	155	6	2.5	200	12	6.5	169	4	1.8			
23	144	7	2.7	194	11	5.8	165	4	1.8			
24	143	8	3.1	190	10	5.1	169	4	1.8			
25	150	8	3.2	191	9	4.6	189	4	2.0			
26	158	8	3.4	193	8	4.2	177	3	1.4			
27	162	9	3.9	194	8	4.2	171	3	1.4			
28	163	10	4.4	194	8	4.2	168	2	.91			
29	147	7	2.8	198	8	4.3	168	3	1.4			
30	153	6	2.5	202	7	3.8	162	4	1.7			
31	156	6	2.5	197	7	3.7	---	---	---			
TOTAL	5561	---	112.1	5672	---	140.6	5195	---	91.91			
YEAR	1644035		2140850									

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM
NOV							
16...	0945	24200	15.5	1160	75800	--	45
18...	1320	7870	12.5	332	7050	38	49
DEC							
16...	1425	4650	11.0	122	1530	--	--
JAN							
21...	1335	5890	8.0	140	2230	37	46
FEB							
16...	1445	55900	13.0	867	131000	49	61
MAR							
05...	1105	5590	--	113	1710	37	44
31...	1310	45400	10.0	1030	126000	34	47
APR							
19...	1425	5410	14.5	133	1940	21	30

RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM
NOV							
16...	59	73	85	91	95	99	100
18...	59	69	79	87	96	99	100
DEC							
16...	--	--	--	85	91	99	100
JAN							
21...	53	61	69	75	87	98	100
FEB							
16...	75	87	94	98	99	100	--
MAR							
05...	51	58	66	72	84	98	100
31...	60	74	86	92	96	99	100
APR							
19...	38	47	59	74	93	99	100

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW INSTAN- TANEOUS (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								
12...	1300	25.5	1	159	--	1	8	16
12...	1305	25.5	1	159	--	1	3	21
12...	1310	25.5	1	159	--	1	3	16
SEP								
30...	1400	--	1	161	1	5	27	54
30...	1405	--	1	161	1	1	4	16
30...	1410	--	1	161	--	--	2	13
30...	1415	--	1	161	1	2	4	17
30...	1420	--	1	161	7	27	51	66

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
JUL							
12...	21	36	64	86	100	--	--
12...	27	31	38	54	84	100	--
12...	25	29	35	49	76	89	100
SEP							
30...	64	75	84	91	100	--	--
30...	24	32	43	60	82	100	--
30...	27	33	42	56	81	100	--
30...	24	32	41	57	89	100	--
30...	68	69	72	79	89	100	--

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY,
WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	TUR- BID- ITY (NTU)
OCT						
17...	1600	--	--	58	--	27
NOV						
02...	1230	--	--	14	--	7.0
09...	1115	--	--	11	--	3.0
12...	1400	--	--	9	--	4.0
12...	1455	--	--	10	--	3.0
16...	0945	24200	15.5	1160	75800	450
18...	1325	--	--	332	--	140
19...	1125	--	--	184	--	90
20...	1530	--	--	96	--	40
21...	0935	--	--	453	--	95
22...	1100	--	--	415	--	200
22...	1625	--	--	302	--	140
23...	1420	--	--	214	--	90
24...	0740	--	--	1350	--	500
DEC						
01...	0830	--	--	77	--	30
04...	1205	--	--	46	--	18
05...	1500	--	--	51	--	20
06...	1605	--	--	47	--	15
08...	1015	--	--	48	--	18
10...	1330	--	--	255	--	80
11...	1240	--	--	84	--	40
13...	1250	--	--	103	--	34
14...	1500	--	--	178	--	55
16...	1425	4650	11.0	122	1530	50
19...	1415	--	--	892	--	360
23...	1050	--	--	400	--	190
JAN						
05...	1245	--	--	431	--	190
05...	1655	--	--	408	--	180
06...	0925	--	--	320	--	130
06...	1245	--	--	326	--	130
07...	0945	--	--	180	--	110
07...	1405	--	--	272	--	110
08...	1550	--	--	241	--	70
09...	1230	--	--	216	--	65
10...	1155	--	--	157	--	50
11...	1200	--	--	132	--	40
11...	1640	--	--	118	--	38
12...	1207	--	--	100	--	36
13...	1415	--	--	100	--	34
14...	1250	--	--	105	--	31
15...	1425	--	--	81	--	29
16...	1045	--	--	62	--	24
17...	0930	--	--	53	--	21
18...	1145	--	--	41	--	18
19...	1055	--	--	51	--	19
19...	1600	--	--	76	--	22
20...	1115	--	--	232	--	65
20...	1610	--	--	361	--	70
21...	1335	5890	8.0	140	2230	50
22...	1140	--	--	90	--	37
22...	1340	--	--	93	--	36
24...	1130	--	--	60	--	26
25...	1130	--	--	47	--	23
26...	1155	--	--	159	--	70
27...	1415	--	--	186	--	95
28...	1145	--	--	184	--	60
28...	1520	--	--	181	--	70
29...	0730	--	--	209	--	70
FEB						
01...	1030	--	--	59	--	27
01...	1600	--	--	68	--	27
02...	1125	--	--	60	--	24
02...	1700	--	--	58	--	26
03...	1040	--	--	46	--	24
03...	1645	--	--	43	--	21
04...	1010	--	--	35	--	19
04...	1600	--	--	38	--	17
05...	1045	--	--	41	--	18
05...	1515	--	--	37	--	17
06...	0930	--	--	30	--	15
06...	1700	--	--	29	--	15
07...	0920	--	--	31	--	14
07...	1730	--	--	28	--	14
08...	1030	--	--	29	--	14
08...	1610	--	--	26	--	14
09...	1050	--	--	26	--	13
09...	1730	--	--	25	--	13

RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY,
WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	TUR- BID- ITY (NTU)
FEB						
10...	1150	--	--	22	--	12
10...	1700	--	--	20	--	10
11...	1000	--	--	18	--	10
11...	1500	--	--	22	--	11
16...	0905	--	--	945	--	350
16...	1445	55900	13.0	867	131000	350
16...	1745	--	--	901	--	320
17...	0845	--	--	507	--	180
17...	1800	--	--	380	--	130
21...	1720	--	--	187	--	65
22...	0845	--	--	107	--	45
22...	1130	--	--	167	--	60
26...	1230	--	--	62	--	24
26...	1740	--	--	33	--	22
27...	1110	--	--	38	--	26
27...	1500	--	--	74	--	28
27...	1745	--	--	68	--	29
28...	0945	--	--	48	--	19
28...	1145	--	--	24	--	21
28...	1600	--	--	18	--	18
MAR						
01...	1140	--	--	313	--	100
02...	1120	--	--	233	--	130
04...	0910	--	--	120	--	45
05...	1105	5590	--	113	1710	39
05...	1715	--	--	98	--	36
06...	1000	--	--	61	--	29
06...	1645	--	--	64	--	29
07...	1000	--	--	48	--	22
07...	1700	--	--	47	--	22
08...	0910	--	--	40	--	22
08...	1125	--	--	41	--	22
14...	0930	--	--	45	--	18
15...	0900	--	--	46	--	18
15...	1800	--	--	49	--	21
16...	0900	--	--	48	--	20
16...	1515	--	--	45	--	20
17...	0910	--	--	42	--	19
17...	1330	--	--	37	--	17
17...	1630	--	--	37	--	18
18...	0900	--	--	28	--	14
18...	1610	--	--	27	--	14
19...	1040	--	--	24	--	14
19...	1630	--	--	27	--	13
20...	0945	--	--	25	--	13
20...	1530	--	--	28	--	13
21...	1030	--	--	23	--	10
21...	1730	--	--	22	--	10
22...	1030	--	--	21	--	9.0
22...	1300	--	--	21	--	9.0
23...	0900	--	--	23	--	9.0
23...	1330	--	--	27	--	9.0
24...	0920	--	--	18	--	7.0
24...	1600	--	--	16	--	7.0
25...	0850	--	--	18	--	7.0
25...	1800	--	--	16	--	6.0
26...	1200	--	--	22	--	6.0
26...	1400	--	--	25	--	7.0
27...	1800	--	--	45	--	23
28...	1130	--	--	48	--	23
29...	1230	--	--	49	--	21
30...	0910	--	--	425	--	90
30...	1300	--	--	366	--	85
30...	1535	--	--	404	--	120
31...	0925	--	--	1220	--	290
31...	1310	45400	10.0	1030	126000	320
APR						
01...	0815	--	--	453	--	160
01...	1035	--	--	447	--	160
01...	1335	--	--	462	--	190
05...	0945	--	--	216	--	95
05...	1250	--	--	209	--	90
05...	1725	--	--	179	--	75
06...	0915	--	--	155	--	100
06...	1315	--	--	153	--	90
07...	1040	--	--	207	--	70
07...	1345	--	--	236	--	75
07...	1645	--	--	241	--	70
08...	1100	--	--	177	--	55
08...	1610	--	--	180	--	55

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY
WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	TUR- BID- ITY (NTU)
APR						
09...	1035	--	--	169	--	50
09...	1750	--	--	186	--	50
13...	1120	--	--	358	--	110
13...	1345	--	--	264	--	100
13...	1710	--	--	246	--	100
14...	0915	--	--	293	--	100
14...	1300	--	--	292	--	120
14...	1645	--	--	294	--	120
15...	0830	--	--	249	--	80
15...	1630	--	--	246	--	80
16...	0935	--	--	212	--	70
16...	1500	--	--	208	--	65
17...	1045	--	--	147	--	45
17...	1800	--	--	156	--	40
18...	0950	--	--	143	--	45
18...	1615	--	--	161	--	40
19...	0950	--	--	113	--	38
19...	1420	--	--	133	--	38
19...	1530	--	--	131	--	38
20...	1610	--	--	110	--	32
21...	1625	--	--	86	--	24
22...	1050	--	--	77	--	22
23...	1840	--	--	50	--	17
25...	0850	--	--	49	--	17
26...	1730	--	--	49	--	17
27...	1730	--	--	35	--	14
28...	1545	--	--	43	--	14
29...	1500	--	--	38	--	14
30...	1440	--	--	32	--	11
MAY						
01...	0900	--	--	12	--	5.0
02...	0935	--	--	14	--	5.0
03...	0940	--	--	12	--	5.0
04...	1025	--	--	10	--	5.0
05...	1000	--	--	12	--	5.0
06...	0915	--	--	12	--	5.0
11...	0945	--	--	13	--	5.0
12...	1500	--	--	12	--	4.0
13...	1620	--	--	16	--	4.0
14...	1645	--	--	16	--	6.0
15...	1740	--	--	14	--	5.0
16...	1800	--	--	15	--	5.0
17...	1800	--	--	14	--	6.0
18...	1000	--	--	20	--	5.0
19...	1330	--	--	17	--	5.0
19...	1600	--	--	16	--	7.0
20...	1400	--	--	13	--	6.0
21...	1615	--	--	11	--	4.0
22...	1840	--	--	9	--	4.0
23...	1600	--	--	9	--	3.0
24...	1000	--	--	10	--	4.0
25...	1100	--	--	13	--	5.0
26...	1800	--	--	13	--	5.0
27...	1730	--	--	13	--	5.0
28...	0800	--	--	14	--	10
29...	0800	--	--	11	--	6.0
30...	0810	--	--	12	--	6.0
31...	0815	--	--	12	--	5.0
JUN						
01...	0840	--	--	12	--	6.0
03...	0925	--	--	14	--	6.0
09...	0945	--	--	13	--	5.0
11...	1435	--	--	12	--	5.0
15...	1340	--	--	9	--	4.0
17...	1605	--	--	11	--	5.0
22...	1600	--	--	9	--	4.0
24...	1425	--	--	10	--	4.0
JUL						
01...	1330	--	--	5	--	3.0
02...	1114	--	--	7	--	3.0
07...	0907	--	--	12	--	4.0
08...	0932	--	--	9	--	5.0
12...	1230	--	--	9	--	5.0
21...	1100	--	--	5	--	3.0
22...	1150	--	--	6	--	3.0
28...	1000	--	--	10	--	3.0
29...	1110	--	--	7	--	2.0
30...	1025	--	--	6	--	2.0
AUG						
03...	1115	--	--	8	--	3.0

RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY,
WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	TUR- BID- ITY (NTU)
AUG						
04...	1425	--	--	9	--	2.0
09...	1000	--	--	8	--	3.0
12...	1330	--	--	8	--	3.0
17...	1300	--	--	10	--	3.0
20...	1410	--	--	14	--	4.0
26...	1015	--	--	8	--	3.0
SEP						
01...	1500	--	--	7	--	3.0
02...	1530	--	--	6	--	2.0
03...	1515	--	--	6	--	2.0
04...	1525	--	--	7	--	2.0
05...	0945	--	--	7	--	3.0
06...	1000	--	--	7	--	3.0
07...	1030	--	--	7	--	3.0
09...	1010	--	--	8	--	3.0
10...	1015	--	--	9	--	2.0
11...	1830	--	--	18	--	2.0
12...	1130	--	--	19	--	3.0
13...	1235	--	--	7	--	2.0
14...	1700	--	--	5	--	2.0
16...	1500	--	--	5	--	2.0
17...	1800	--	--	6	--	3.0
19...	1120	--	--	7	--	2.0
21...	1730	--	--	4	--	1.0
23...	1515	--	--	4	--	1.0
24...	1400	--	--	4	--	1.0
27...	1600	--	--	3	--	1.0
28...	1530	--	--	2	--	1.0
30...	1515	--	--	4	--	1.0

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, Hydrologic Unit 18010108, 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 mi² (255.1 km²).

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) National Geodetic Vertical Datum of 1929. 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.--20 years, 324 ft³/s (9.176 m³/s), 235,000 acre-ft/yr (290 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,300 ft³/s (858 m³/s) Jan. 16, 1974, gage height, 17.41 ft (5.307 m), from rating curve extended above 9,600 ft³/s (272 m³/s) on basis of slope-area measurements at gage heights 15.11 ft (4.606 m) and 16.63 ft (5.069 m); minimum daily, 2.3 ft³/s (0.065 m³/s) Sept. 16, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft³/s (142 m³/s), and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 28	0245	5,350 152	9.32 2.841	Dec. 20	Unknown	*19,300 518	14.16 4.316
Nov. 15	1700	11,400 323	11.91 3.630	Feb. 16	0015	14,700 416	13.07 3.984
Nov. 23	1900	11,400 323	11.89 3.624	Mar. 31	1215	10,900 309	11.72 3.572

Minimum daily, 10.0 ft³/s (0.283 m³/s) several days during September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	68	349	2100	442	2370	1810	209	68	39	22	14
2	11	55	311	2700	383	1750	840	198	67	37	21	14
3	11	48	278	1850	345	1160	692	187	66	36	21	14
4	11	43	255	3250	315	900	585	178	64	36	21	13
5	11	40	237	1700	285	723	512	169	63	34	20	13
6	11	37	299	1150	262	613	450	161	61	33	20	13
7	40	35	300	880	243	548	420	155	60	32	19	12
8	33	34	265	720	229	575	405	148	58	32	19	12
9	21	33	260	600	215	578	390	143	58	31	19	12
10	20	37	680	530	205	628	470	139	58	31	19	12
11	19	47	540	460	194	765	900	133	59	30	18	12
12	17	231	470	420	183	709	1900	128	60	30	18	11
13	15	314	610	382	271	626	1650	123	57	29	18	11
14	14	440	770	356	911	566	1800	119	54	28	18	11
15	14	4080	900	332	6080	507	1480	115	53	28	18	11
16	13	4950	670	308	7270	534	1200	110	52	28	17	11
17	13	3710	590	294	2330	505	980	106	50	27	17	11
18	13	862	1850	288	1380	458	750	105	48	27	16	12
19	12	469	5400	351	1010	417	590	101	47	26	16	12
20	12	328	16500	552	811	371	510	98	46	26	16	12
21	12	1460	6400	650	670	365	440	94	45	25	16	11
22	12	1090	3200	536	429	341	395	92	44	25	16	11
23	11	7420	2000	506	455	323	358	89	43	25	16	10
24	11	4220	1350	459	504	307	329	87	43	25	15	10
25	11	1360	960	422	429	292	305	84	43	25	14	10
26	12	921	850	611	455	282	285	80	43	24	14	10
27	207	901	990	586	504	266	264	77	44	23	14	10
28	1440	642	840	924	440	339	244	75	43	23	14	10
29	267	505	3200	791	---	463	232	73	43	22	14	10
30	136	410	2400	639	---	1390	221	72	42	22	14	10
31	89	---	1650	525	---	7010	---	71	---	22	14	---
TOTAL	2531	34790	55374	25872	27250	26681	21407	3719	1582	881	534	345
MEAN	81.6	1160	1786	835	973	861	714	120	52.7	28.4	17.2	11.5
MAX	1440	7420	16500	3250	7270	7010	1900	209	68	39	22	14
MIN	11	33	237	288	183	266	221	71	42	22	14	10
AC-FT	5020	69010	109800	51320	54050	52920	42460	7380	3140	1750	1060	684

CAL YR 1981 TOTAL 146468.9 MEAN 401 MAX 16500 MIN 8.0 AC-FT 290500
WTR YR 1982 TOTAL 200966.0 MEAN 551 MAX 16500 MIN 10 AC-FT 398600

NAVARRO RIVER BASIN

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, Hydrologic Unit 18010108, 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 mi² (785 km²).

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) National Geodetic Vertical Datum of 1929. 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.--32 years, 523 ft³/s (14.81 m³/s), 378,900 acre-ft/yr (467 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,500 ft³/s (1,830 m³/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 ft³/s (538 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.23 ft³/s (0.007 m³/s) July 13, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1937 reached a stage of 38.2 ft (11.64 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 7,000 ft³/s (198 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 17	0200	10,300 292	17.38 5.297	Feb. 16	0300	*32,900 932	29.96 9.132
Nov. 23	1530	15,000 425	21.13 6.440	Mar. 31	1030	24,400 691	26.25 8.001
Dec. 20	0045	29,700 841	28.64 8.729	Apr. 11	0515	8,860 251	15.74 4.798
Dec. 29	1700	10,200 289	17.32 5.279				

Minimum daily, 8.5 ft³/s (0.241 m³/s) Sept. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	74	568	3510	863	3270	6510	327	83	44	17	11
2	10	59	473	4620	714	3180	7170	307	78	43	17	11
3	10	50	399	3650	610	2080	6730	288	76	40	16	10
4	9.6	44	348	5900	535	1530	4370	273	73	39	16	10
5	9.6	40	308	3400	457	1130	3160	256	73	37	16	10
6	10	38	289	2050	396	938	2610	238	71	35	16	10
7	16	35	357	1450	358	799	1990	224	74	33	16	11
8	26	34	323	1130	330	757	1580	215	71	32	15	11
9	23	31	424	940	304	709	1270	207	63	29	15	10
10	23	33	1050	815	282	719	1610	200	63	26	14	9.9
11	22	36	727	710	259	866	7760	190	64	26	14	9.9
12	20	90	719	645	236	736	5920	184	62	25	14	9.7
13	17	246	909	575	269	625	4660	175	61	26	13	9.9
14	15	1260	978	513	1170	590	4820	168	60	25	13	9.0
15	14	2780	1100	461	11000	535	3230	158	57	24	14	8.5
16	12	6140	1050	418	17400	585	2230	152	53	23	14	9.1
17	12	5590	854	382	5020	605	1630	146	44	22	14	24
18	12	1520	3580	383	2730	533	1260	142	49	22	14	27
19	12	859	17500	613	1780	476	1040	130	48	22	14	31
20	12	586	18200	1100	1320	424	893	132	45	21	12	22
21	12	2160	7110	1320	1070	391	778	123	45	21	12	18
22	12	2120	4180	1020	891	361	669	120	45	21	12	17
23	12	7580	2510	927	756	339	593	115	42	20	13	16
24	11	5430	1720	878	663	317	537	110	41	19	12	16
25	11	2140	1330	780	598	299	494	103	38	18	11	15
26	11	1550	1180	1250	552	282	458	97	38	17	11	15
27	18	1970	1660	1250	579	267	424	92	35	18	11	14
28	1050	1340	1350	2550	509	386	393	89	37	18	11	14
29	377	972	5080	1990	---	817	367	84	43	18	10	14
30	177	723	4890	1410	---	5080	347	83	46	18	11	14
31	101	---	3070	1060	---	16400	---	85	---	18	11	---
TOTAL	2089.2	45530	84236	47700	51651	46026	75503	5213	1678	800	419	417.0
MEAN	67.4	1518	2717	1539	1845	1485	2517	168	55.9	25.8	13.5	13.9
MAX	1050	7580	18200	5900	17400	16400	7760	327	83	44	17	31
MIN	9.6	31	289	382	236	267	347	83	35	17	10	8.5
AC-FT	4140	90310	167100	94610	102400	91290	149800	10340	3330	1590	831	827
CAL YR 1981	TOTAL	213655.7	MEAN 585	MAX 18200	MIN 2.6	AC-FT 423800						
WTR YR 1982	TOTAL	361262.2	MEAN 990	MAX 18200	MIN 8.5	AC-FT 716600						

LOCATION.--Lat 39°25'42", long 123°44'12", in NE¼ sec.15, T.18 N., R.17 W., Mendocino County, Hydrologic Unit 18010108, on right bank 0.7 mi (1.1 km) downstream from South Fork, and 3.5 mi (5.6 km) east of Fort Bragg.

PERIOD OF RECORD.--August 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 11.73 ft (3.575 m) National Geodetic Vertical Datum of 1929.

AVERAGE DISCHARGE,--31 years, 213 ft³/s (6.032 m³/s), 154,300 acre-ft/yr (190 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,600 ft³/s (753 m³/s) Mar. 29, 1974, gage height, 27.14 ft (8.272 m), from rating curve extended above 4,500 ft³/s (127 m³/s) on basis of slope-conveyance study; minimum daily, 0.79 ft³/s (0.022 m³/s) Sept. 8, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,400 ft³/s (68.0 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Nov. 15	1800	2,900	82.1	10.83	3.301	Feb. 15	2145	*10,300	292	19.45	5.928
Dec. 19	1945	7,240	205	16.48	5.054	Mar. 31	0915	6,920	196	16.23	4.947
Dec. 29	1615	3,320	94.0	11.52	3.511						

Minimum daily, 3.8 ft³/s (0.108 m³/s) Oct. 2-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	33	262	1290	395	823	2300	138	48	28	11	6.4
2	3.8	24	216	1460	331	952	2470	131	46	27	11	6.2
3	3.8	19	183	1200	286	784	2520	123	45	26	11	6.2
4	3.8	16	159	1350	252	628	1660	117	44	24	10	6.0
5	3.8	13	138	1150	220	516	1170	110	43	23	9.9	5.9
6	4.0	12	175	812	195	435	968	103	42	22	9.7	5.9
7	5.4	11	283	582	176	378	805	99	41	21	9.8	6.1
8	8.2	11	256	458	163	339	664	90	40	20	9.7	5.7
9	12	10	345	385	149	298	543	92	39	20	9.4	5.6
10	20	17	622	335	138	282	626	90	37	19	9.1	5.4
11	21	26	515	294	127	262	1580	87	37	18	8.8	5.2
12	16	81	472	259	116	236	1690	84	38	18	8.8	5.1
13	11	104	513	230	171	215	1370	80	38	17	8.8	5.0
14	10	198	605	207	741	208	1610	78	35	17	8.8	5.0
15	9.2	1170	814	191	5200	194	1230	75	32	16	8.6	5.3
16	8.7	1700	774	176	4530	213	870	73	32	16	8.2	5.3
17	8.6	1440	567	164	1740	203	629	70	31	15	8.3	5.4
18	8.7	610	1360	167	1070	193	487	68	30	15	8.1	7.3
19	8.7	373	5390	237	788	179	402	66	29	15	8.0	6.9
20	8.6	265	4320	326	614	165	345	64	29	14	8.0	6.6
21	12	337	2280	377	504	156	298	63	28	14	7.9	6.5
22	8.3	407	1420	352	426	148	259	61	27	14	7.7	6.3
23	8.3	1440	933	352	369	140	239	59	26	13	7.5	6.1
24	8.3	1400	654	345	330	131	219	57	25	13	7.2	6.1
25	8.3	782	502	332	294	126	203	54	25	12	7.0	5.8
26	8.3	678	480	447	278	121	189	53	25	12	7.2	5.5
27	29	931	699	521	259	121	176	52	27	12	7.1	5.3
28	164	640	627	1110	248	220	163	50	27	12	6.9	5.3
29	172	445	1970	950	---	497	154	49	31	12	7.0	5.3
30	90	334	2020	665	---	1760	146	48	29	11	6.8	5.3
31	51	---	1300	493	---	5080	---	48	---	11	6.7	---
TOTAL	738.7	13527	30854	17217	20110	16003	25985	2432	1026	527	264.0	174.0
MEAN	23.8	451	995	555	718	516	866	78.5	34.2	17.0	8.52	5.80
MAX	172	1700	5390	1460	5200	5080	2520	138	48	28	11	7.3
MIN	3.8	10	138	164	116	121	146	48	25	11	6.7	5.0
AC-FT	1470	26830	61200	34150	39890	31740	51540	4820	2040	1050	524	345
CAL YR 1981	TOTAL	75617.8		MEAN 207	MAX 5390	MIN 2.3	AC-FT 150000					
WTR YR 1982	TOTAL	128857.7		MEAN 353	MAX 5390	MIN 3.8	AC-FT 255600					

MATTOLE RIVER BASIN

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, Hydrologic Unit 18010107, 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 mi² (622 km²).

PERIOD OF RECORD.--October 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 km²) above station.

AVERAGE DISCHARGE.--34 years, 1,350 ft³/s (38.23 m³/s) 978,100 acre-ft/yr (1.21 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90,400 ft³/s (2,560 m³/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 ft³/s (736 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 17 ft³/s (0.48 m³/s) Sept. 5, 15, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 15,000 ft³/s (425 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 16	1730	41,700 1,180	19.94 6.078	Mar. 31	0645	15,000 425	12.71 3.874
Dec. 19	1715	*55,500 1,570	23.00 7.010	Apr. 11	2300	19,900 564	14.26 4.346
Feb. 15	2345	31,600 895	17.50 5.334				

Minimum daily, 26 ft³/s (0.74 m³/s) Sept. 11, 12, 14-16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	489	1080	5180	1480	5000	6850	638	196	121	49	34
2	69	406	902	4390	1320	4600	8680	600	192	113	49	34
3	67	345	774	4290	1210	3900	8180	571	186	106	48	34
4	61	309	675	6360	1110	3200	5940	536	180	101	48	33
5	56	280	684	4380	1020	2720	4610	510	180	99	45	32
6	75	259	8150	3130	962	2400	4070	483	179	97	44	32
7	458	235	6350	2310	917	2100	3550	457	172	94	44	30
8	262	221	3110	1840	874	1900	2890	440	166	92	44	29
9	184	203	2950	1590	834	1600	2350	418	161	88	43	29
10	450	260	3250	1390	800	1700	4170	393	156	85	42	28
11	344	703	2210	1260	766	1590	15800	386	152	82	42	26
12	225	3920	2290	1140	736	1400	14500	370	147	77	42	26
13	176	5700	3920	1040	2160	1300	13300	354	143	74	42	27
14	144	4800	5600	957	9070	1200	11500	335	140	72	40	26
15	127	17400	10900	907	16900	1160	6760	326	136	70	38	26
16	111	26400	5590	872	17800	1250	4360	309	131	68	38	26
17	100	17200	3270	847	9100	1180	3060	306	126	66	38	27
18	93	5370	12000	881	5320	1100	2300	299	123	66	38	35
19	87	2830	43100	981	3950	1060	1870	289	120	66	38	44
20	81	2050	25200	1150	2690	1020	1610	281	118	64	38	43
21	79	3900	12000	1320	2260	967	1390	272	117	64	38	39
22	76	3810	6680	1190	1800	908	1240	259	114	60	38	36
23	71	7030	3970	1340	1700	855	1130	250	110	59	35	34
24	70	6190	2360	1390	1600	815	1030	240	104	57	35	34
25	68	3710	1690	1280	1460	779	943	232	99	56	35	32
26	64	4830	2020	3160	1450	741	861	225	166	56	34	31
27	757	5760	2530	2830	1380	871	801	217	233	54	34	32
28	4660	3270	1820	3300	1300	2490	755	211	187	52	34	31
29	2200	2110	5710	2530	---	2420	709	206	148	52	34	30
30	957	1420	5790	2030	---	4490	669	203	131	51	34	28
31	641	---	4760	1690	---	12200	---	198	---	51	34	---
TOTAL	12895	131410	191335	66955	91969	68916	135878	10814	4513	2313	1235	948
MEAN	416	4380	6172	2160	3285	2223	4529	349	150	74.6	39.8	31.6
MAX	4660	26400	43100	6360	17800	12200	15800	638	233	121	49	44
MIN	56	203	675	847	736	741	669	198	99	51	34	26
AC-FT	25580	260700	379500	132800	182400	136700	269500	21450	8950	4590	2450	1880
CAL YR 1981	TOTAL	591158	MEAN	1620	MAX	43100	MIN	22	AC-FT	1173000		
WTR YR 1982	TOTAL	719181	MEAN	1970	MAX	43100	MIN	26	AC-FT	1426000		

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, Hydrologic Unit 18010103, 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 mi² (749 km²).

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 National Geodetic Vertical Datum of 1929 (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 hm³) 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 m³); 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 95,600 acre-ft (118 hm³) 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 m³) Dec. 9, 10, 1931, gage height 1,822.5 ft (555.50 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 86,700 acre-ft (107 hm³) May 26, gage height, 1,909.95 ft (582.153 m); minimum, 19,500 acre-ft (24.0 hm³) Nov. 12, gage height, 1,865.48 ft (568.598 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 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38403	25785	67265	71900	67525	69675	74465	72418	86154	76677	69935	60581
2	37809	25139	67245	69935	67401	69755	76738	74091	86064	76635	69675	60131
3	37224	24645	66955	69275	67381	68995	75600	74738	85973	76529	69455	59771
4	36592	24125	66838	69675	67441	68410	73511	76107	85614	76402	69155	59537
5	35940	23430	66724	69575	67381	68265	72418	77331	85425	76318	68857	59235
6	35405	22935	66781	68837	67324	67931	72194	78550	85210	76170	68421	58933
7	34957	22247	66819	68401	67148	67737	73866	79612	84714	76022	68127	58755
8	34413	21533	67205	68205	66917	67539	75495	80636	84804	75875	67833	58089
9	33859	20896	67148	68089	66877	67697	75748	81618	84535	75685	67657	57433
10	33243	20252	67813	67165	66857	68029	76888	82216	84287	75537	67421	56773
11	32695	19668	67597	68185	66704	68441	81684	82926	83970	75221	67110	56194
12	32069	19892	67558	68265	66626	68185	76888	83393	83660	75137	66800	55664
13	31471	20322	68461	68225	67697	67931	78787	83904	83393	74927	66318	54873
14	30929	24215	68935	68069	71786	67700	76318	84450	82994	74612	66010	54125
15	30336	26011	68935	67912	79808	67558	73696	84737	82594	74402	65638	53572
16	29614	50048	68599	67950	77523	67461	72768	85389	82482	74112	65510	52921
17	29116	66183	68127	67754	72287	67381	72094	85682	81640	73883	65204	52427
18	28522	68245	72031	67700	70517	67225	71686	86018	81225	73735	64898	51803
19	27752	68029	77204	67657	69835	67129	71080	86110	80810	73552	64576	51314
20	27138	67617	76297	67617	69035	67012	69955	86110	80484	73326	64160	50832
21	26513	70276	73284	67577	68777	66819	69255	86087	80200	73099	63841	50400
22	25898	69595	71220	67342	68342	66838	68915	86198	79830	72872	63577	49744
23	25250	75938	69875	67441	68245	66917	68896	86357	79830	72439	63429	48790
24	24645	78768	69335	67520	67873	66917	68857	86468	78987	72194	63058	48244
25	24015	70115	68797	67441	67893	66857	68679	86626	78560	71910	62799	47659
26	23295	69075	68717	68323	67935	66724	68381	86670	77991	71766	62522	47032
27	22709	68599	68519	68381	67969	67070	68265	86604	77778	71504	62153	46879
28	25490	68265	68146	68285	68049	67481	69395	86266	77099	71240	61859	46771
29	26524	67853	72154	68185	---	68323	71322	86401	76930	70838	61859	46678
30	26472	67421	71080	67950	---	69635	70758	86312	76740	70517	61181	46588
31	26157	---	69935	67520	---	77479	---	85839	---	70235	60871	---
MAX	38403	78768	77204	71900	79808	77479	81684	86670	86154	76677	69935	60581
MIN	22709	19668	66724	67165	66626	66724	68265	72418	76740	70235	60871	46588
a	1872.61	1900.86	1902.13	1900.91	1901.18	1905.78	1902.54	1909.58	1905.43	1902.28	1897.38	1888.81
b	-12900	+41300	+2510	-2420	+529	+9430	-6720	+15100	-9100	-6500	-9360	-14300

CAL YR 1981 b +54800

WTR YR 1982 b +7530

a Gage height, in feet, at end of month.
b Change in contents, in acre-feet.

EEL RIVER BASIN

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, Hydrologic Unit 18010103, 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 mi² (751 km²).

PERIOD OF RECORD.--October 1922 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1929, published as South Eel River at Hullville, and October 1929 to September 1953 as "at Hullville."

REVISED RECORDS.--WSP 1315-B: 1923(M), 1938(M). WSP 1395: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 1,740 ft (530 m), from topographic map. Prior to Dec. 15, 1930, at datum 3.00 ft (0.914 m) higher.

REMARKS.--Flow regulated by Lake Pillsbury (station 11470000) 0.7 mi (1.1 km) upstream. No diversion above station.

COOPERATION.--Records collected by Pacific Gas and Electric Co., under general supervision of the Geological Survey, in connection with a Federal Energy Regulatory Commission Project.

AVERAGE DISCHARGE.--60 years, 553 ft³/s (15.66 m³/s), 400,600 acre-ft/yr (494 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,300 ft³/s (1,590 m³/s) Dec. 22, 1964, gage height, 24.24 ft (7.388 m), from floodmarks, from rating curve extended above 9,400 ft³/s (266 m³/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 ft³/s (0.003 m³/s) Sept. 8, 1924.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 38,600 ft³/s (1,090 m³/s) Feb. 16, gage height, 19.85 ft (6.050 m); minimum daily, 41 ft³/s (1.16 m³/s) Sept. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	330	359	837	3710	954	2350	3660	365	294	150	158	162
2	331	350	752	2860	890	3140	3020	324	294	145	158	160
3	331	337	688	2180	856	2340	4260	326	294	140	158	155
4	332	355	614	2490	821	1800	3910	318	294	142	158	154
5	331	356	555	2590	759	1470	2700	305	296	143	158	158
6	331	365	552	2180	701	1250	1610	303	296	146	159	158
7	274	371	825	1720	655	1100	736	303	294	150	160	244
8	321	367	783	1450	618	1060	778	303	298	150	160	328
9	319	363	790	1360	583	1060	1240	300	305	150	160	333
10	322	359	1230	1380	553	1260	3240	303	307	150	160	337
11	324	357	1050	1460	522	1740	12500	307	307	148	160	337
12	323	351	1040	1500	492	1580	9960	307	309	148	160	335
13	325	362	1580	1380	732	1310	7080	307	307	151	159	335
14	327	372	2260	1280	3920	1180	7050	292	309	154	159	335
15	328	233	2110	1210	14200	1050	5390	296	305	152	159	335
16	332	77	1900	1120	24500	973	3760	298	317	152	159	333
17	335	75	1470	1050	6410	928	3390	303	313	152	158	333
18	333	1230	6110	1030	2300	870	2880	365	317	152	158	333
19	332	1510	14800	1020	1180	804	2620	422	320	152	158	330
20	330	1090	13400	1010	768	737	2990	422	324	152	158	328
21	329	2630	8030	950	530	690	2730	382	326	152	156	333
22	333	3280	4710	839	367	654	2330	317	326	152	156	335
23	335	10200	3440	811	229	620	2270	307	324	152	156	333
24	333	6150	2450	875	136	593	2190	303	307	154	156	324
25	331	3260	1890	904	45	579	2020	305	311	154	156	320
26	329	2310	1580	1400	515	483	1840	322	320	152	156	320
27	316	1840	1530	1620	1020	404	1680	348	317	152	159	82
28	254	1420	1340	1520	905	394	901	324	317	152	163	42
29	230	1100	3870	1360	---	379	385	300	218	155	163	41
30	296	923	4870	1170	---	389	1600	298	150	158	155	41
31	313	---	3520	1040	---	2640	---	294	---	158	155	---
TOTAL	9910	42352	90576	46469	66161	35827	100720	9969	9016	4670	4908	7694
MEAN	320	1412	2922	1499	2363	1156	3357	322	301	151	158	256
MAX	335	10200	14800	3710	24500	3140	12500	422	326	158	163	337
MIN	230	75	552	811	45	379	385	292	150	140	155	41
AC-FT	19660	84010	179700	92170	131200	71060	199800	19770	17880	9260	9740	15260
CAL YR 1981	TOTAL	221688	MEAN	607	MAX	14800	MIN	53	AC-FT	439700		
WTR YR 1982	TOTAL	428272	MEAN	1173	MAX	24500	MIN	41	AC-FT	849500		

LOCATION.--Lat 39°21'42", long 123°07'38", in SW¼NW¼ sec.6, T.17 N., R.11 W., Mendocino County, Hydrologic Unit 180110103 on right bank 100 ft (30 m) downstream from powerhouse of Pacific Gas and Electric Co., 1.8 mi (2.9 km) southwest of Van Arsdale Dam, and 2.9 mi (4.7 km) northwest of town of Potter Valley.

PERIOD OF RECORD.--December 1909 to current year. Prior to October 1922, monthly discharge only, published in WSP 1315-B. Prior to October 1931, published as Snow Mountain Water and Power Co.'s tailrace near Potter Valley.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 1,020 ft (311 m), from topographic map. No gage prior to Dec. 1, 1922. Dec. 1, 1922, to Sept. 30, 1923, nonrecording gage and Oct. 1, 1923, to Apr. 12, 1950, water-stage recorder, at site 50 ft (15 m) upstream at different datum.

REMARKS.--Water is diverted from Bel River above Van Arsdale Dam. After passing through powerhouse, part of it is used for irrigation in Potter Valley and remainder flows into East Fork Russian River. Water for irrigation diverted from tailrace is included in figures of discharge.

COOPERATION.--Records collected by Pacific Gas and Electric Co., under general supervision of the Geological Survey, in connection with a Federal Energy Regulatory Commission Project.

EXTREMES FOR PERIOD OF RECORD (1922 TO CURRENT YEAR).--Maximum daily discharge, 348 ft³/s (9.86 m³/s) Apr. 24, 1953; no flow at times in several years.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	319	237	316	317	323	325	325	327	331	150	158	160
2	323	240	318	223	328	322	327	327	332	150	158	160
3	319	278	321	233	330	322	324	329	330	150	158	161
4	322	321	321	317	329	322	324	331	329	150	159	160
5	321	321	321	317	333	322	323	331	330	150	160	160
6	318	224	321	317	333	322	325	327	332	151	160	160
7	318	216	321	318	334	322	327	324	333	152	159	227
8	325	276	320	318	326	322	327	325	331	150	160	332
9	319	273	320	318	318	323	326	325	331	151	160	332
10	325	279	320	318	318	323	330	325	327	151	158	332
11	324	201	320	318	327	325	319	325	328	151	158	332
12	320	301	320	318	327	324	314	329	331	151	158	338
13	320	316	319	318	327	325	323	329	328	152	159	334
14	323	316	318	318	288	325	325	325	332	153	160	333
15	321	249	319	318	330	324	327	327	329	151	160	333
16	325	266	318	318	333	292	324	328	328	146	161	335
17	325	275	318	318	330	326	324	331	329	145	160	338
18	325	315	275	319	327	325	323	333	329	146	160	338
19	325	317	221	318	328	325	327	333	335	146	160	337
20	324	318	262	318	328	325	327	333	337	147	160	338
21	325	259	310	317	327	325	325	333	340	150	159	339
22	325	227	308	320	328	326	326	334	341	149	160	336
23	325	197	309	324	325	327	326	333	343	147	159	336
24	325	313	311	324	321	327	327	337	344	152	159	336
25	323	314	310	324	321	328	326	335	337	153	158	332
26	322	313	312	323	320	328	326	336	339	153	160	331
27	326	314	316	322	324	328	326	336	339	153	161	192
28	288	315	318	322	326	328	326	337	337	156	159	35
29	304	316	322	321	---	287	325	336	270	154	159	35
30	321	316	317	322	---	333	293	332	150	156	159	35
31	324	---	317	322	---	272	---	330	---	158	160	---
TOTAL	9949	8423	9639	9798	9109	9950	9717	10243	9752	4674	4939	7847
MEAN	321	281	311	316	325	321	324	330	325	151	159	262
MAX	326	321	322	324	334	333	330	337	344	158	161	339
MIN	288	197	221	223	288	272	293	324	150	145	158	35
AC-FT	19730	16710	19120	19430	18070	19740	19270	20320	19340	9270	9800	15560
CAL YR 1981	TOTAL	78973	MEAN	216	MAX	326	MIN	26	AC-FT	156600		
WTR												

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, Hydrologic Unit 18010103, 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 mi² (904 km²).

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 down Eel River.

COOPERATION.--Records collected by Pacific Gas and Electric Co., under general supervision of the Geological Survey, in connection with a Federal Energy Regulatory Commission Project.

AVERAGE DISCHARGE (combined flow of Eel River at Van Arsdale Dam and Potter Valley powerhouse tailrace).--73 years (water years 1910-82), 650 ft³/s (18.41 m³/s), 470,900 acre-ft/yr (581 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,100 ft³/s (1,820 m³/s) Dec. 22, 1964, gage height, 33.9 ft (10.33 m), from floodmarks; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge not determined; maximum daily discharge, 29,200 ft³/s (827 m³/s) Feb. 16; minimum daily, 5.9 ft³/s (0.17 m³/s) June 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	123	609	5140	1140	3460	4050	100	12	13	11	11
2	11	135	462	4030	985	3870	3740	97	9.0	12	11	11
3	11	52	365	4140	922	2750	5290	94	9.2	11	10	12
4	11	37	293	3320	838	2260	4550	126	8.9	10	10	10
5	11	38	233	2880	715	1840	3110	116	11	9.9	9.7	9.8
6	11	68	183	2500	657	1770	2040	103	7.4	9.3	9.5	9.8
7	11	100	264	2030	605	1540	974	82	6.5	9.2	10	9.8
8	8.9	100	476	1720	578	1220	785	79	5.9	9.4	11	9.6
9	9.2	100	409	1560	517	1240	1510	76	7.8	9.6	11	9.0
10	11	100	487	1610	498	1670	3470	73	12	9.9	12	9.6
11	8.9	250	1020	1700	321	2060	15500	70	9.7	9.5	11	12
12	8.9	150	804	1710	280	1880	12200	67	12	9.4	11	14
13	9.4	150	766	1610	1010	1570	8660	64	9.9	9.5	11	13
14	11	150	1450	1450	6480	1420	8650	61	11	9.4	12	13
15	11	4850	2320	1340	16600	1160	6560	58	14	9.4	12	14
16	11	1090	2210	1210	29200	1060	4480	55	12	9.3	12	15
17	16	715	2070	1090	7600	936	3920	52	13	9.3	11	14
18	17	1500	4000	1090	6150	883	3320	49	9.9	9.6	11	14
19	14	1320	10000	1100	3260	811	2950	125	11	9.7	11	13
20	11	816	12800	1100	2550	704	3190	138	13	9.7	10	12
21	9.0	1890	10000	1010	1960	624	3030	40	13	9.6	10	12
22	9.8	3790	8000	804	1910	554	2610	37	13	9.4	10	13
23	18	12100	6000	760	1620	463	2570	34	13	9.2	11	14
24	16	10000	4490	985	1350	388	2400	31	12	9.2	11	13
25	14	8000	3040	1150	794	361	2190	28	11	9.4	11	12
26	13	6000	2300	1970	1010	275	2030	25	9.8	9.6	10	11
27	81	4000	1840	2120	1080	161	1340	84	12	9.5	9.5	9.4
28	352	1760	1650	1980	1620	202	250	68	12	9.4	11	7.6
29	54	1250	1540	1800	---	251	250	24	13	9.6	12	7.5
30	8.9	855	1360	1500	---	558	273	15	14	11	12	7.1
31	7.8	---	5420	1380	---	4000	---	12	---	11	11	---
TOTAL	808.8	61489	86861	57789	92250	41941	115892	2083	328.0	305.0	335.7	342.2
MEAN	26.1	2050	2802	1864	3295	1353	3863	67.2	10.9	9.84	10.8	11.4
MAX	352	12100	12800	5140	29200	4000	15500	138	14	13	12	15
MIN	7.8	37	183	760	280	161	250	12	5.9	9.2	9.5	7.1
AC-FT	1600	122000	172300	114600	183000	83190	229900	4130	651	605	666	679

CAL YR 1981 TOTAL 194258.9 MEAN 532 MAX 12800 MIN 7.5 AC-FT 385300
WTR YR 1982 TOTAL 460424.7 MEAN 1261 MAX 29200 MIN 5.9 AC-FT 913300

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, Hydrologic Unit 18010103, 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 mi² (1,368 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 1,001.28 ft (305.190 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except those for period of missing record, which are good to fair. Flow partly regulated by Lake Pillsbury (station 11470000) 40 mi (64 km) upstream and by diversion through Potter Valley powerhouse (station 11471000).

AVERAGE DISCHARGE.--16 years, 969 ft³/s (27.44 m³/s), 702,000 acre-ft/yr (866 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 65,500 ft³/s (1,850 m³/s) Jan. 16, 1974, gage height, 33.64 ft (10.253 m), from rating curve extended above 26,000 ft³/s (736 m³/s) on basis of slope-area measurement of peak flow; no flow many days in 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 45.52 ft (13.874 m) from information by local resident, discharge, 100,000 ft³/s (2,830 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 37,600 ft³/s (1,060 m³/s) Dec. 20, gage height, 23.85 ft (7.269 m); minimum daily, 11.0 ft³/s (0.312 m³/s) Sept. 11, 12, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	56	800	6010	2100	2500	7320	1110	76	42	17	15
2	13	162	705	4870	1900	4500	8100	465	72	42	16	15
3	13	116	610	3790	1900	4200	9020	420	69	40	17	14
4	13	67	525	5110	1900	4000	7280	394	66	38	17	14
5	13	56	480	4930	1700	3000	5290	354	66	35	17	14
6	15	56	650	3830	1600	2100	3970	321	66	33	17	14
7	28	168	1400	3020	1450	1600	2660	299	63	32	16	13
8	31	136	1000	2470	1350	1500	1800	281	59	30	16	12
9	22	133	945	2160	1300	1460	2370	267	55	29	16	12
10	24	136	1880	2050	1200	1510	4060	254	53	27	16	12
11	25	118	1330	2040	1100	2090	18000	250	53	27	16	11
12	26	524	1200	1990	1050	2010	15800	232	53	26	16	11
13	20	820	1830	1810	2200	1640	11000	212	52	25	16	12
14	17	1350	2660	1620	11200	1450	11100	204	49	24	16	13
15	16	6740	2490	1470	16900	1250	8210	180	47	22	15	13
16	16	7310	2190	1310	22000	1200	5730	172	46	22	15	15
17	16	4850	1640	1170	8200	1100	4670	165	42	22	15	23
18	16	2950	7480	1240	5000	976	4040	158	41	22	16	27
19	19	1850	27400	1360	4600	864	3600	205	40	21	15	25
20	21	1400	29700	1430	3800	736	3400	235	38	21	14	20
21	21	1900	15300	1140	3200	645	3660	232	38	20	14	18
22	19	2950	8480	1150	2700	573	2950	188	38	19	14	16
23	16	4900	5480	1300	2300	516	2810	137	37	19	14	14
24	14	6150	3970	1400	1920	460	2650	120	35	19	13	14
25	19	3550	3080	1500	1650	421	2470	106	34	18	12	14
26	20	2680	2490	1600	1500	405	2290	100	34	17	12	14
27	36	2980	2360	3000	1400	269	2100	98	36	18	12	14
28	754	1720	2040	2900	1210	557	1830	122	35	17	12	13
29	524	1240	6550	2550	---	996	629	112	39	17	13	13
30	175	955	8030	2400	---	4020	1080	83	43	17	14	11
31	87	---	5780	2200	---	12300	---	79	---	16	15	---
TOTAL	2064	58023	150475	74820	108330	60848	159889	7555	1475	777	464	446
MEAN	66.6	1934	4854	2414	3869	1963	5330	244	49.2	25.1	15.0	14.9
MAX	754	7310	29700	6010	22000	12300	18000	1110	76	42	17	27
MIN	13	56	480	1140	1050	269	629	79	34	16	12	11
AC-FT	4090	115100	298500	148400	214900	120700	317100	14990	2930	1540	920	885
CAL YR 1981 TOTAL	313294.8	MEAN	858	MAX	29700	MIN	9.2	AC-FT	621400			
WTR YR 1982 TOTAL	625166.0	MEAN	1713	MAX	29700	MIN	11	AC-FT	1240000			

EEL RIVER BASIN

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, Hydrologic Unit 18010103, 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 mi² (417 km²).

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) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--26 years, 423 ft³/s (11.98 m³/s), 306,500 acre-ft/yr (378 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 77,900 ft³/s (2,210 m³/s) Dec. 22, 1964, gage height, 30.6 ft (9.33 m), from floodmarks, from rating curve extended above 17,000 ft³/s (481 m³/s) on basis of slope-area measurement of maximum flow; no flow at times in 1959, 1967, 1977, and 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 7,000 ft³/s (198 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 15	Unknown	14,700 416	14.70 4.481	Feb. 16	Unknown	*20,400 578	17.52 5.340
Nov. 23	Unknown	7,990 226	10.81 3.295	Mar. 30	2145	14,600 413	14.69 4.478
Dec. 19	1500	17,100 484	15.93 4.855				

Minimum daily, 1.30 ft³/s (0.037 m³/s) Aug. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	98	225	2070	700	2600	3380	162	30	7.1	1.8	1.6
2	2.3	60	203	1810	580	1600	6020	150	29	6.9	1.8	1.5
3	2.0	37	190	1440	530	1120	4360	140	27	6.9	1.7	1.5
4	1.8	22	180	2540	500	880	2470	138	25	6.7	1.7	1.5
5	1.6	16	175	2180	470	720	2050	131	24	6.4	1.7	1.5
6	2.1	14	580	1700	440	611	1650	126	22	6.1	1.8	1.5
7	6.7	12	940	1200	320	511	1250	121	21	5.7	1.7	1.5
8	6.8	11	700	800	210	469	950	115	19	5.6	1.7	1.5
9	5.9	10	960	600	185	428	784	109	18	5.2	1.7	1.4
10	8.7	9.6	1200	450	164	519	3470	104	17	4.8	1.6	1.4
11	8.7	35	852	500	170	477	4190	101	16	4.5	1.5	1.4
12	6.9	130	1060	390	600	390	2800	95	14	4.2	1.7	1.4
13	5.8	400	1870	340	1400	343	3430	89	13	4.0	1.7	1.4
14	4.7	1600	1810	305	5000	336	2160	83	13	3.7	1.6	1.4
15	3.4	7000	1980	285	9000	311	1390	76	12	3.3	1.5	1.5
16	3.3	4000	1280	257	11000	339	934	74	11	3.1	1.5	2.4
17	3.0	2200	846	236	6800	349	689	70	10	3.0	1.5	3.3
18	3.0	1200	5030	324	3000	320	544	66	9.4	2.8	1.5	4.2
19	3.0	700	11400	491	1500	302	449	64	8.4	2.7	1.5	3.1
20	2.9	420	7790	647	630	270	400	60	8.0	2.6	1.5	2.8
21	2.9	940	4710	693	430	245	350	57	7.3	2.5	1.4	2.4
22	3.0	2000	2450	720	320	228	306	54	6.9	2.3	1.5	2.1
23	3.0	3500	1480	780	270	213	280	51	6.6	2.2	1.5	2.0
24	2.8	1600	918	920	230	198	320	48	6.3	2.1	1.5	2.0
25	2.8	750	647	1120	215	187	280	46	5.9	2.1	1.4	2.0
26	2.8	520	643	1400	310	181	240	43	6.2	2.1	1.3	1.8
27	45	420	900	1480	560	246	225	41	7.5	2.0	1.4	1.8
28	600	355	703	1530	1140	654	207	38	7.4	1.8	1.4	1.8
29	405	298	4030	1230	---	1030	192	36	7.8	1.8	1.6	1.8
30	255	255	2940	1040	---	6800	175	35	7.8	1.8	1.7	1.8
31	160	---	2360	860	---	6810	---	33	---	1.8	1.7	---
TOTAL	1567.5	28612.6	61052	30338	46674	29687	45945	2556	416.5	117.8	49.1	57.3
MEAN	50.6	954	1969	979	1667	958	1532	82.5	13.9	3.80	1.58	1.91
MAX	600	7000	11400	2540	11000	6810	6020	162	30	7.1	1.8	4.2
MIN	1.6	9.6	175	236	164	181	175	33	5.9	1.8	1.3	1.4
AC-FT	3110	56750	121100	60180	92580	58880	91130	5070	826	234	97	114

CAL YR 1981 TOTAL 149146.74 MEAN 409 MAX 11400 MIN 0 AC-FT 295800
WTR YR 1982 TOTAL 247072.80 MEAN 677 MAX 11400 MIN 1.3 AC-FT 490100

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, Hydrologic Unit 18010103, temperature recorder at site of former gaging station on left bank, 1.8 mi (2.9 km) upstream from Middle Fork, and 2.1 mi (3.4 km) south of Dos Rios.

DRAINAGE AREA.--705 mi² (1,826 km²).

PERIOD OF RECORD.--Water years 1957 to June 1982 (discontinued).

WATER TEMPERATURES: Water years 1958-59, 1961 to June 1982 (discontinued).

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 June 1982 (discontinued).

SEDIMENT RECORDS: October 1957 to September 1965.

INSTRUMENTATION.--Temperature recorder since May 1961.

REMARKS.--Differences between recorder values before adjustment and field measurement values exceeded $\pm 1.0^{\circ}\text{C}$ for water temperatures at times during the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 31.5°C June 29, 1977; minimum recorded, 1.0°C on several days in 1972.

EXTREMES FOR PERIOD.--

WATER TEMPERATURES: Maximum recorded, 28.0°C June 17, 21-23; minimum recorded 5.5°C Feb. 6.

TEMPERATURE (DEG. C) OF WATER, OCTOBER 1981 TO JUNE 1982

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

EEL RIVER BASIN

11472500 EEL RIVER ABOVE DOS RIOS, CA--Continued

TEMPERATURE (DEG. C) OF WATER, OCTOBER 1981 TO JUNE 1982

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	8.5	16.5	14.0	21.5	18.5						
2	9.0	8.5	17.0	14.5	21.5	19.0						
3	9.5	9.0	17.5	15.0	21.0	18.5						
4	10.5	9.0	18.0	15.0	20.0	18.5						
5	10.0	9.5	18.5	16.0	20.0	17.5						
6	9.5	9.0	19.0	16.5	21.0	18.5						
7	10.0	9.0	19.0	17.0	21.5	18.5						
8	11.5	9.5	17.5	16.0	23.0	19.5						
9	12.0	10.5	17.5	15.0	23.5	20.5						
10	11.5	11.5	17.5	15.5	24.0	21.5						
11	11.5	10.5	18.5	16.0	22.5	21.0						
12	11.0	10.5	18.5	16.0	23.0	20.5						
13	11.0	10.5	19.5	17.0	23.0	20.0						
14	11.0	11.0	19.5	17.0	24.0	20.5						
15	11.5	10.0	20.0	16.5	26.0	22.0						
16	12.0	10.5	20.0	17.0	27.0	23.5						
17	12.5	11.0	19.5	17.5	28.0	24.5						
18	13.0	11.5	19.0	16.5	27.0	24.0						
19	13.5	11.5	20.5	16.5	26.5	24.0						
20	14.0	12.5	21.0	18.0	27.0	23.5						
21	14.0	12.5	21.5	18.5	28.0	25.0						
22	14.0	13.0	21.0	18.0	28.0	25.0						
23	14.0	13.0	22.0	18.0	28.0	25.0						
24	14.0	12.5	23.0	20.0	27.0	24.5						
25	14.5	13.5	24.0	21.0	26.0	23.0						
26	15.0	14.0	23.0	20.5	24.5	23.5						
27	15.0	14.0	21.0	18.0	26.0	22.5						
28	14.5	13.5	22.0	18.5	23.5	22.0						
29	16.5	13.5	22.0	19.0	23.0	21.0						
30	17.0	15.0	22.0	19.5	24.5	21.5						
31	---	---	21.0	19.5	---	---						
MONTH	17.0	8.5	24.0	14.0	28.0	17.5						

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CA

LOCATION.--Lat 39°42'23", long 123°91'27", in NE¼Sec.5, T.21 N., R.13 W., Mendocino County, Hydrologic Unit 18010104, on right bank 0.6 mi (1.0 km) upstream from Eastman Creek, 1.7 mi (2.7 km) southeast Dos Rios, and 1.9 mi (3.1 km) upstream from mouth.

DRAINAGE AREA.--745 mi² (1,930 km²).

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) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--17 years, 1,665 ft³/s (47.15 m³/s), 1,206,000 acre-ft/yr (1.49 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90,500 ft³/s (2,560 m³/s) Jan. 23, 1970, gage height, 27.15 ft (8.275 m); minimum daily, 3.3 ft³/s (0.093 m³/s) Aug. 21-23, Sept. 12-14, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 35,000 ft³/s (991 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 15	2045	49,500 1,400	22.09 6.733
Dec. 19	2000	59,400 1,680	23.47 7.154
Feb. 16	0130	*67,000 1,900	24.45 7.452

Minimum daily, 20.0 ft³/s (0.57 m³/s) Sept. 11-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	790	1560	6630	2580	8410	4810	4120	893	372	64	27
2	28	562	1480	5210	2460	6830	6480	3950	817	326	63	26
3	25	429	1340	4090	2440	4560	7640	3930	733	291	62	24
4	24	320	1150	6160	2380	3770	5250	3930	666	270	62	23
5	23	252	963	5350	2180	3290	4190	3740	614	245	62	23
6	23	207	1640	4030	2000	2890	3550	3670	561	226	60	23
7	37	183	3700	3240	1860	2600	3070	3830	542	208	59	22
8	102	153	2390	2810	1760	2480	2890	3580	498	196	59	22
9	86	112	2760	2660	1670	2580	3100	3250	453	181	58	21
10	78	95	4580	2670	1590	2970	6330	2940	424	168	57	21
11	191	157	3120	2780	1480	3750	24700	2710	415	157	56	20
12	118	1120	3210	2720	1380	3230	14600	2540	409	146	55	20
13	78	2630	4480	2490	3480	2850	11600	2470	399	139	54	20
14	60	8610	6090	2340	17100	2670	13900	2480	393	132	45	20
15	51	19900	6560	2230	26300	2500	8070	2450	378	126	39	20
16	45	24200	5120	2090	33000	2370	6110	2380	360	119	37	25
17	40	17100	3920	1960	12900	2250	5390	2370	356	114	35	26
18	37	5930	12700	2090	7780	2130	5230	2320	341	109	34	30
19	35	3430	35300	2190	6900	1980	5110	2170	315	104	33	34
20	33	2550	27800	2270	5870	1850	5200	2080	344	98	33	35
21	31	5860	15600	2220	4870	1750	5330	2050	386	95	32	32
22	29	5520	7870	1890	4090	1660	5580	2010	355	91	31	30
23	28	15200	5370	2020	3410	1570	5890	1960	356	87	29	28
24	28	11100	4080	2280	2930	1480	5850	1930	388	84	28	27
25	27	5620	3460	2330	2530	1450	5450	1910	383	82	28	26
26	26	4380	3310	4450	2270	1420	5210	1860	292	79	27	25
27	35	4100	4770	3770	2190	1370	5020	1690	309	76	26	25
28	3000	3060	3710	4110	1910	1790	4800	1450	295	73	26	25
29	2630	2340	9770	3440	---	2440	4430	1250	335	71	27	25
30	1320	1860	9370	2950	---	4350	4180	1100	385	69	26	25
31	953	---	6880	2750	---	11100	---	972	---	66	27	---
TOTAL	9253	147770	204053	98220	161310	96340	198960	79092	13395	4600	1334	750
MEAN	298	4926	6582	3168	5761	3108	6632	2551	447	148	43.0	25.0
MAX	3000	24200	35300	6630	33000	11100	24700	4120	893	372	64	35
MIN	23	95	963	1890	1380	1370	2890	972	292	66	26	20
AC-FT	18350	293100	404700	194800	320000	191100	394600	156900	26570	9120	2650	1490
CAL YR 1981 TOTAL		600621.5		MEAN 1646	MAX 35300	MIN 3.4	AC-FT 1191000					
WTR YR 1982 TOTAL		1015077.0		MEAN 2781	MAX 35300	MIN 20	AC-FT 2013000					

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956 to current year.

CHEMICAL ANALYSES: Water years 1959-66. Prior to October 1965, published as "at Dos Rios."

SPECIFIC CONDUCTANCE: Water year 1967.

WATER TEMPERATURES: Water years 1958-59, 1961 to current year.

SEDIMENT RECORDS: Water years 1956-76, 1981 to current year.

TURBIDITY: Water years 1965-68.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1966 to September 1967.

WATER TEMPERATURES: October 1957 to September 1959, October 1960 to current year.

SEDIMENT RECORDS: October 1965 to September 1976.

INSTRUMENTATION.--Temperature recorder since March 1970.

REMARKS.--Difference between recorder values before adjustment and field measurement values exceeded $\pm 1.0^{\circ}\text{C}$ for water temperature at times during the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 35.5°C June 20, 1973; minimum recorded, 0.0°C Dec. 22, 1968.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 27.5°C Aug. 6, 8, 22-24; minimum recorded, 3.0°C Feb. 6.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	14.5	11.5	9.0	7.5	6.5	7.5	5.0	6.0	4.5	8.5	8.0
2	15.5	15.0	11.0	9.5	8.5	7.5	5.0	4.0	6.5	5.0	8.0	7.0
3	15.0	13.5	11.5	9.5	8.0	8.0	5.0	4.5	7.0	5.5	8.0	7.0
4	14.0	12.0	12.0	10.5	8.0	7.0	6.5	4.5	6.5	5.5	8.5	7.0
5	13.5	12.0	12.5	11.5	8.5	7.5	6.5	6.5	5.5	3.5	8.5	6.5
6	13.5	13.0	13.0	12.0	9.5	8.5	6.5	4.5	5.0	3.0	8.0	6.0
7	14.0	13.5	12.5	12.0	9.5	9.0	4.5	3.5	5.5	4.0	8.0	7.0
8	15.0	13.0	12.5	11.0	9.0	8.0	5.0	4.0	6.0	4.5	9.0	7.5
9	14.5	13.0	12.0	11.5	9.5	8.5	6.0	4.5	6.0	5.0	9.5	8.5
10	14.5	13.0	12.5	12.0	9.5	8.0	6.0	5.0	6.5	5.0	10.0	9.0
11	13.0	11.5	14.0	12.5	8.0	7.0	6.5	5.5	6.0	4.0	10.0	9.0
12	13.0	10.5	14.0	12.5	7.5	7.0	6.5	5.5	6.0	4.0	10.0	8.5
13	12.5	10.5	12.5	11.0	8.5	7.5	6.0	4.5	7.5	6.0	9.5	8.0
14	12.0	10.0	11.0	9.5	9.5	8.5	6.0	5.0	8.5	7.0	9.5	8.5
15	12.0	10.0	10.5	9.5	9.5	8.5	6.0	5.0	9.5	7.5	9.0	7.0
16	12.0	9.5	11.0	10.5	8.5	7.0	6.5	5.5	9.0	8.5	8.0	6.5
17	12.0	10.0	11.0	9.0	7.5	6.5	6.0	5.5	9.5	8.5	8.0	6.5
18	13.0	11.5	9.0	8.0	9.5	8.0	6.0	5.5	9.0	7.5	8.0	6.5
19	13.0	11.5	8.5	8.0	11.0	9.5	5.5	5.0	10.0	8.5	9.0	6.5
20	13.0	11.5	10.0	9.0	11.0	9.0	5.0	5.0	10.5	9.0	9.5	6.5
21	13.0	12.0	10.5	10.0	9.0	8.0	5.0	4.0	10.5	9.0	10.0	7.0
22	13.0	12.0	10.5	10.5	8.0	7.0	4.5	4.0	9.0	7.0	10.5	7.0
23	13.5	11.5	11.0	10.5	8.0	7.0	6.0	4.0	7.0	5.5	10.5	7.5
24	13.0	11.5	11.0	9.0	8.5	7.5	6.0	5.5	7.0	5.0	11.0	8.0
25	12.5	11.5	9.0	8.0	9.0	8.5	7.0	5.5	8.0	6.0	11.5	9.0
26	13.0	13.0	8.5	7.5	9.0	9.0	7.0	6.0	8.0	7.0	10.5	9.0
27	13.5	13.5	7.5	7.0	9.0	7.0	6.0	4.5	8.5	7.0	9.5	8.5
28	13.5	10.0	7.5	6.5	7.0	6.5	5.5	4.0	8.5	7.5	9.0	8.0
29	10.5	9.0	7.0	6.0	8.5	6.5	5.5	4.0	---	---	8.0	5.5
30	11.0	9.5	6.5	6.0	9.0	8.5	6.0	4.5	---	---	5.5	4.5
31	11.5	9.5	---	---	8.5	7.5	6.0	5.0	---	---	6.5	3.5
MONTH	15.5	9.0	14.0	6.0	11.0	6.5	7.5	3.5	10.5	3.0	11.5	3.5

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	5.5	12.0	9.5	18.5	14.5	22.5	19.0	25.5	21.5	24.0	21.0
2	7.0	6.0	12.5	9.5	18.5	14.5	22.0	18.5	25.5	21.5	26.0	21.0
3	7.5	6.5	13.0	10.0	18.0	14.0	20.5	18.0	25.5	21.5	24.5	22.0
4	9.5	6.0	13.0	10.0	16.5	14.0	22.5	17.5	25.5	21.5	24.5	20.0
5	8.5	6.5	13.5	10.0	17.5	13.0	23.5	18.5	26.0	21.5	25.5	20.5
6	7.5	6.0	14.0	11.0	18.5	14.0	24.0	19.5	27.5	22.5	25.5	22.5
7	8.0	6.5	13.5	11.0	19.0	15.0	22.5	19.5	26.5	24.5	25.5	21.0
8	10.0	6.5	13.0	10.5	20.0	15.5	24.0	19.0	27.5	23.0	25.5	21.0
9	11.0	6.5	13.0	9.5	21.0	16.0	24.5	20.0	27.0	23.0	25.5	21.5
10	11.0	8.0	13.0	9.5	21.5	17.0	25.5	20.5	26.5	22.0	24.0	20.0
11	8.0	6.0	13.5	9.5	19.5	17.0	26.0	21.0	26.5	22.0	23.5	19.0
12	8.0	7.0	14.5	10.5	21.0	17.0	25.0	22.0	27.0	22.0	23.5	19.5
13	8.5	7.5	15.5	11.5	22.0	17.0	26.0	22.0	27.0	23.0	24.0	19.5
14	8.5	7.5	15.5	12.0	23.0	18.0	26.0	22.0	27.0	23.0	23.5	19.5
15	9.5	7.0	15.5	11.5	24.0	19.0	25.0	21.5	26.5	22.0	21.5	18.5
16	10.5	7.0	15.5	12.0	25.0	20.5	25.0	20.5	26.0	21.5	20.0	18.0
17	11.0	8.0	14.5	12.5	25.5	21.0	26.0	21.5	26.5	22.0	19.0	17.5
18	11.0	7.5	15.0	11.0	25.5	21.0	26.5	22.0	26.5	22.5	20.0	18.0
19	11.5	8.0	16.0	11.5	25.0	21.5	26.5	22.0	25.5	23.0	19.5	17.5
20	11.5	8.0	17.0	13.0	25.5	21.5	26.5	21.5	26.0	21.5	21.0	16.5
21	11.5	8.0	17.5	14.0	25.5	21.5	26.5	22.0	27.0	22.0	21.5	18.0
22	12.0	8.5	17.0	14.0	26.0	21.5	27.0	22.5	27.5	22.5	21.5	18.5
23	11.5	9.0	18.0	14.0	25.5	21.5	27.0	23.0	27.5	23.5	21.0	18.0
24	11.0	8.0	18.5	14.5	24.5	21.0	27.0	23.0	27.5	22.5	22.0	20.0
25	11.0	8.5	19.5	15.0	24.0	20.0	26.5	22.5	27.0	23.0	21.5	18.5
26	11.5	9.0	19.0	15.5	22.5	21.0	26.5	22.5	26.0	21.5	20.0	17.0
27	11.5	8.5	18.0	14.5	24.0	19.5	26.0	22.0	25.5	21.5	20.0	17.0
28	11.0	8.5	18.5	13.5	21.5	20.0	26.0	21.5	24.0	21.5	19.5	16.0
29	11.5	8.5	18.0	14.0	22.0	18.5	27.0	22.5	25.0	21.5	19.0	16.0
30	12.0	9.0	18.5	13.5	23.0	19.0	27.0	22.5	25.0	20.5	19.0	15.0
31	---	---	18.0	14.5	---	---	26.5	22.5	25.5	21.0	---	---
MONTH	12.0	5.5	19.5	9.5	26.0	13.0	27.0	17.5	27.5	20.5	25.5	15.0

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
NOV 05...	1215	252	12.0	10	6.8	--	--	--
DEC 11...	1400	3040	7.0	187	1530	--	--	--
JAN 15...	1420	2230	5.0	66	397	--	--	--
MAR 05...	1305	3280	6.5	274	2430	42	44	56
APR 15...	1545	8280	7.0	713	15900	21	29	39
15...	1710	8200	7.0	684	15100	24	34	43
23...	1430	5610	9.0	614	9300	22	31	42

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
NOV 05...	--	--	61	--	--	--	--	--
DEC 11...	--	--	78	84	91	100	--	--
JAN 15...	--	--	90	--	--	--	--	--
MAR 05...	65	71	76	81	88	96	100	--
APR 15...	49	58	65	75	86	94	99	100
15...	54	63	70	79	90	97	100	--
23...	53	62	69	76	84	94	97	100

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, Hydrologic Unit 18Q10105, 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 Dobbys Creek, and 11.8 mi (19.0 km) northeast of Garberville.

DRAINAGE AREA.--2,107 mi² (5,457 km²).

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) National Geodetic Vertical Datum of 1929. 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.--27 years, 4,706 ft³/s (133.3 m³/s), 3,409,000 acre-ft/yr (4.20 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 561,000 ft³/s (15,900 m³/s) Dec. 22, 1964, gage height, 87.2 ft (26.58 m), from floodmarks, site and datum then in use, from rating curve extended above 110,000 ft³/s (3,120 m³/s) on basis of slope-area measurement at gage height 72.5 ft (22.10 m); minimum daily, 1.2 ft³/s (0.034 m³/s) Sept. 13, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 41,000 ft³/s (1,160 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 15	2345	92,100 2,610	33.04 10.071	Feb. 16	0530	151,000 4,280	41.73 12.719
Nov. 23	2200	54,700 1,550	26.24 7.998	Mar. 31	1100	53,800 1,520	26.05 7.940
Dec. 20	0015	*163,000 4,620	43.25 13.183	Apr. 11	1500	80,300 2,270	31.05 9.464
Dec. 30	0115	42,800 1,210	23.69 7.221				

Minimum daily, 46 ft³/s (1.30 m³/s) Sept. 16, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	1360	6110	26500	7900	20600	28200	7430	1160	552	115	55
2	84	1100	5340	21300	7070	26700	26900	6000	1110	535	109	55
3	76	887	4840	17300	6590	20200	38500	5610	1050	501	104	55
4	69	707	4290	20400	6190	16400	29400	5440	985	451	102	55
5	66	539	3800	21200	5410	13200	21600	5170	935	429	98	55
6	67	454	4970	16900	4800	10900	18100	4900	885	395	96	55
7	98	403	10900	13300	4340	9190	14300	4880	837	369	96	55
8	161	435	7410	11000	4000	8170	11900	4680	819	350	96	52
9	236	440	6900	9710	3680	7720	11600	4300	774	338	95	52
10	302	366	14100	9220	3430	7560	16400	3880	737	319	91	52
11	429	399	9940	9050	3210	9420	69500	3560	713	301	88	50
12	501	1700	8950	8780	2950	8450	64600	3230	701	287	85	50
13	374	4450	13300	8050	4690	7270	48000	3040	687	276	83	48
14	264	17100	17700	7240	29900	6600	51000	2980	659	264	82	48
15	202	35700	17900	6630	61000	6170	36100	2910	639	251	82	48
16	168	67900	15700	6000	111000	5630	25200	2760	603	240	79	46
17	154	50900	11700	5420	50200	5580	20000	2670	573	231	77	46
18	139	23200	24000	5680	30600	5220	17800	2630	538	225	76	59
19	131	14900	123000	6690	24200	4960	16100	2480	523	217	73	75
20	122	10500	118000	7090	20300	4430	15000	2410	503	210	72	79
21	117	13300	67100	7340	16200	4060	14700	2360	509	196	70	82
22	115	19600	38000	6070	13600	3750	13800	2320	553	186	70	85
23	111	34400	25000	6490	11400	3490	13200	2200	515	170	67	85
24	105	44800	18500	8070	9710	3280	12600	2110	500	162	64	83
25	102	24500	15000	7730	8350	3130	11700	2060	518	154	62	80
26	97	19000	13000	13000	7300	3110	10800	1970	531	146	60	74
27	104	19000	15000	14700	7620	2980	10100	1840	468	141	58	70
28	2810	14000	12900	14700	6630	4240	9310	1670	465	134	56	70
29	6880	10300	21200	12900	---	7100	7980	1510	475	128	55	68
30	3290	7770	34600	10200	---	11900	6720	1380	498	122	55	67
31	1770	---	24300	8870	---	41900	---	1240	---	118	55	---
TOTAL	19241	440110	713450	347530	472270	293310	691110	101620	20463	8398	2471	1854
MEAN	621	14670	23010	11210	16870	9462	23040	3278	682	271	79.7	61.8
MAX	6880	67900	123000	26500	111000	41900	69500	7430	1160	552	115	85
MIN	66	366	3800	5420	2950	2980	6720	1240	465	118	55	46
AC-FT	38160	873000	1415000	689300	936700	581800	1371000	201600	40590	16660	4900	3680
CAL YR 1981 TOTAL	1871693		MEAN	5128	MAX	123000	MIN	13	AC-FT	3713000		
WTR YR 1982 TOTAL	3111827		MEAN	8526	MAX	123000	MIN	46	AC-FT	6172000		

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, Hydrologic Unit 18010106, 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 mi² (16.84 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder and one recording and storage-type precipitation gage. Datum of gage is 1,391.08 ft (424.001 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--15 years, 26.4 ft³/s (0.748 m³/s), 19,130 acre-ft/yr (23.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,280 ft³/s (64.6 m³/s) Mar. 29, 1974, gage height, 9.77 ft (2.978 m), from rating curve extended above 660 ft³/s (18.7 m³/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, 0.27 ft³/s (0.008 m³/s) Sept. 10-15, 1981.

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 ft³/s (104 m³/s) by slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s (11.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 19	1345	*1,120 31.7	8.05 2.454
Feb. 15	2145	636 18.0	7.03 2.143

Minimum daily, 0.70 ft³/s (0.020 m³/s) Sept. 12-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.81	4.0	45	126	37	64	104	21	6.1	3.5	1.3	.89
2	.73	3.4	40	111	33	90	122	21	6.1	3.5	1.3	.82
3	.73	2.9	36	101	29	97	147	19	5.9	3.4	1.3	.82
4	.73	2.7	33	104	25	95	130	18	5.7	3.2	1.3	.82
5	.73	2.5	30	105	22	84	97	16	5.7	3.2	1.3	.82
6	1.3	2.3	62	95	19	63	88	16	5.6	3.1	1.3	.82
7	2.9	2.2	72	84	17	49	79	14	5.4	3.0	1.2	.76
8	1.8	2.0	61	64	15	41	66	14	5.2	2.9	1.2	.76
9	1.4	1.9	70	54	14	35	59	14	5.0	2.8	1.2	.76
10	2.3	2.6	82	45	12	32	105	13	4.9	2.7	1.2	.76
11	2.4	4.8	73	40	12	30	258	13	4.9	2.7	1.2	.76
12	1.9	14	68	35	11	27	208	12	4.9	2.6	1.2	.70
13	1.5	23	77	31	28	22	181	12	4.7	2.5	1.2	.70
14	1.2	47	93	28	120	20	208	11	4.5	2.5	1.2	.70
15	1.1	219	121	24	291	16	140	10	4.4	2.4	1.2	.74
16	1.0	189	109	21	314	17	108	9.9	4.3	2.4	1.1	1.1
17	.98	160	85	19	159	16	83	9.6	4.1	2.4	1.1	1.2
18	.97	108	145	20	127	14	72	9.3	4.0	2.3	1.0	1.4
19	.91	73	612	18	103	13	63	8.7	3.9	2.2	.95	1.3
20	.91	56	473	18	81	13	58	8.6	3.9	2.0	.95	1.2
21	.91	79	296	16	60	12	55	8.2	3.8	1.7	.89	1.2
22	.91	81	197	15	47	12	48	8.1	3.6	1.7	.89	1.1
23	.91	129	140	22	39	11	48	7.7	3.4	1.6	.89	1.0
24	.84	137	112	24	33	11	43	7.4	3.4	1.6	.89	.95
25	.84	108	96	25	29	11	39	7.1	3.2	1.5	.89	.95
26	.86	92	84	59	29	10	36	6.8	3.9	1.5	.83	.95
27	3.4	87	60	64	25	10	32	6.7	4.6	1.5	.82	.95
28	22	75	77	67	24	16	29	6.6	4.0	1.5	.82	.95
29	16	63	156	63	---	19	27	6.5	4.1	1.4	.82	.95
30	8.1	52	166	52	---	55	24	6.3	3.8	1.4	.85	.95
31	5.2	---	140	43	---	147	---	6.1	---	1.4	.89	---
TOTAL	86.27	1823.3	3911	1593	1755	1152	2757	347.6	137.0	72.1	33.18	27.78
MEAN	2.78	60.8	126	51.4	62.7	37.2	91.9	11.2	4.57	2.33	1.07	.93
MAX	22	219	612	126	314	147	258	21	6.1	3.5	1.3	1.4
MIN	.73	1.9	30	15	11	10	24	6.1	3.2	1.4	.82	.70
AC-FT	171	3620	7760	3160	3480	2280	5470	689	272	143	66	55
a	7.41	18.42	19.63	6.04	14.12	14.78	8.36	.00	1.13	.00	.00	0.76

CAL YR 1981 TOTAL 10133.07 MEAN 27.8 MAX 612 MIN .27 AC-FT 20100
WTR YR 1982 TOTAL 13695.23 MEAN 37.5 MAX 612 MIN .70 AC-FT 27160

a Precipitation, in inches, at raingage no. 1.

EEL RIVER BASIN

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 1968-79.
 SEDIMENT RECORDS: Water years 1969 to current year.

PERIOD OF DAILY RECORD.--
 WATER TEMPERATURES: October 1967 to September 1979.
 SEDIMENT RECORDS: October 1973 to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)
OCT 22...	1245	.91	146	8.0	9.0	10.9	K3	19	59	0
NOV 24...	1500	149	88	7.8	10.0	10.6	K4	K7	35	0
DEC 29...	1130	156	71	7.7	10.0	10.6	120	41	25	0
JAN 26...	1040	68	90	7.8	7.0	11.4	50	58	31	0
FEB 23...	1115	40	91	7.7	7.0	11.5	K4	K5	--	--
MAR 23...	1000	11	100	7.8	7.0	11.7	K1	29	37	0
APR 16...	1145	108	89	7.3	8.5	10.9	K14	<1	30	0
MAY 19...	1045	8.7	108	7.9	10.0	10.6	K2	38	41	0
JUN 17...	1015	4.2	118	7.3	15.5	9.4	K17	23	46	0
JUL 22...	1145	1.7	134	8.0	15.0	9.4	K4	59	50	0
AUG 26...	1230	.82	124	8.0	15.5	9.3	K3	K220	56	0
SEP 10...	1030	.76	140	7.4	14.0	9.6	K4	93	53	0

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 22...	16	4.7	8.3	23	.5	.8	67	<5.0	2.7
NOV 24...	9.3	2.8	5.2	24	.4	.6	39	5.0	2.4
DEC 29...	6.7	2.1	4.0	25	.4	.6	31	<6.0	1.9
JAN 26...	8.1	2.5	4.4	24	.4	.5	38	6.0	1.9
FEB 23...	--	--	--	--	--	--	45	--	--
MAR 23...	9.8	3.1	5.7	25	.4	.6	50	<5.0	2.1
APR 16...	7.9	2.5	4.4	24	.4	.6	34	6.0	2.0
MAY 19...	11	3.2	5.8	23	.4	.9	48	<5.0	2.4
JUN 17...	12	4.0	6.8	24	.4	.5	51	<5.0	2.4
JUL 22...	13	4.2	7.5	24	.5	.8	63	<5.0	2.6
AUG 26...	15	4.5	7.7	23	.5	.9	62	<5.0	2.8
SEP 10...	14	4.4	8.0	24	.5	.7	61	<5.0	2.8

See footnotes at end of table.

11475560 ELDER CREEK NEAR BRANSCOMB, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)		
DATE											
OCT 22...	.1	15	87	.12	--	--	<.09	<.09	<.06		
NOV 24...	.1	15	57	.08	<.02	--	<.10	.10	.10		
DEC 29...	.1	12	44	.06	--	--	<.09	<.09	<.07		
JAN 26...	.1	13	47	.06	--	--	<.09	<.09	<.07		
FEB 23...	--	--	--	--	--	--	<.10	<.10	<.06		
MAR 23...	.1	15	58	.08	--	--	<.10	<.10	<.06		
APR 16...	.1	16	52	.07	<.10	--	<.10	<.10	<.06		
MAY 19...	.1	15	--	--	--	--	<.10	<.10	<.06		
JUN 17...	.1	15	84	.11	--	<.10	<.10	.15	<.06		
JUL 22...	.1	15	82	.11	--	--	<.10	<.10	.06		
AUG 26...	.1	15	85	.12	--	--	<.10	<.10	<.06		
SEP 10...	.1	15	84	.11	--	--	<.10	<.10	<.06		
DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)		
OCT 22...	<.06	--	--	<.21	<.20	--	.03	.03	--		
NOV 24...	.13	--	.21	<.21	.34	.44	.01	.01	.9		
DEC 29...	<.07	--	--	.39	.33	--	.05	.03	2.6		
JAN 26...	<.07	--	--	.46	.32	--	.22	.02	2.4		
FEB 23...	<.06	--	--	.49	.31	--	.01	.02	.5		
MAR 23...	.08	--	.23	.27	.31	--	.02	.02	--		
APR 16...	<.06	--	--	.26	.21	--	.02	.02	--		
MAY 19...	.06	--	.94	.40	1.0	--	.16	.16	.4		
JUN 17...	<.06	--	--	1.2	.80	.95	.07	.06	.6		
JUL 22...	<.06	.64	--	.70	.60	--	.04	.05	2.7		
AUG 26...	.06	--	.34	.70	.40	--	.11	.03	.7		
SEP 10...	.09	--	.61	1.2	.70	--	.04	.05	--		
DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	CYANIDE TOTAL (MG/L AS CN)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
MAR 23...	1000	<1	1	<.01	<100	16	<1	3	<1	<10	3
SEP 10...	1030	<1	<1	<.01	100	22	<1	1	<1	<10	<1

See footnotes at end of table.

EEL RIVER BASIN

11475560 ELDER CREEK NEAR BRANSCOMB, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
MAR 23...	<3	7	<10	20	8	3	<10	<4	<10	<1	<.1
SEP 10...	<3	3	<10	40	<3	<1	<10	<4	<10	<1	.1

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)
MAR 23...	<.1	<10	<1	<1	<1	<1	98	<6.0	10	6	--
SEP 10...	<.1	<10	<1	<1	<1	<1	150	<6.0	10	7	<1.9

DATE	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	PCB, TOTAL (UG/L)	PCB, TOTAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCN, TOTAL IN BOT- TOM MA- TERIAL TOTAL (UG/KG)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL TOTAL (UG/KG)
MAR 23...	--	--	--	1.2	.1	--	--	--	--	--	--
SEP 10...	<.4	1.1	<.4	1.4	.2	<.10	<1	<.10	<1.0	<.01	<.1

DATE	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL (UG/KG)	DI- ELDRIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)
MAR 23...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 10...	<.10	<1.0	<.01	<.1	<.01	<.1	<.01	<.1	<.01	<.1	<.01	<.1	<.01

DATE	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL (UG/KG)	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/KG)	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/KG)
MAR 23...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 10...	<.1	<.01	<.1	<.01	<.1	<.01	<.1	<.01	<.1	<.01	<.01	<.1	<.1

See footnotes at end of table.

11475560 ELDER CREEK NEAR BRANSCOMB, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	PER- THANE TOTAL (UG/L)	PER- THANE IN BOTTOM MATERIAL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2, 4-OP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	SILVEX, TOTAL (UG/L)
MAR 23...	--	--	--	--	--	--	--	--	--	--
SEP 10...	<.10	<1.00	<1	<10	<.01	<.01	<.01	<.01	<.1	<.01

K Results based on colony count outside the acceptable range (non-ideal colony count).
 < Actual value is known to be less than the value shown.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JAN 26...	1035	68	7.0	16	2.9	60
APR 20...	1420	58	11.0	7	1.1	65

EEL RIVER BASIN

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, Hydrologic Unit 18010106, 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 mi² (642 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 693.32 ft (211.324 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--17 years, 903 ft³/s (25.57 m³/s), 654,200 acre-ft/yr (807 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 72,700 ft³/s (2,060 m³/s) Jan. 4, 1966, gage height, 25.4 ft (7.74 m), from floodmarks, from rating curve extended above 21,000 ft³/s (595 m³/s) on basis of slope-area measurement at gage height 26.13 ft (7.964 m); minimum daily, 7.3 ft³/s (0.21 m³/s) Aug. 4-6, 12, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 26.13 ft (7.964 m), from floodmarks, discharge, 78,700 ft³/s (2,230 m³/s), by slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 8,500 ft³/s (241 m³/s) and maximum(*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 15	1630	21,100 598	14.50 4.420	Feb. 15	2230	30,000 850	16.93 5.160
Nov. 23	0915	11,900 337	10.88 3.316	Mar. 31	0645	16,600 470	12.84 3.914
Dec. 19	1500	*44,500 1,260	20.18 6.151	Apr. 11	2345	11,800 334	10.83 3.301
Dec. 29	1330	11,600 329	10.72 3.267				

Minimum daily, 20 ft³/s (0.57 m³/s) Sept. 14, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	182	1210	4570	1470	3700	6010	515	148	94	36	25
2	34	139	996	4040	1320	3520	8230	484	145	90	35	24
3	34	113	826	3330	1200	3170	8880	454	141	87	35	24
4	31	97	706	3930	1090	2600	5940	424	140	85	35	25
5	30	88	607	3450	978	2040	4300	396	140	80	35	24
6	35	80	3170	2710	900	1660	3420	374	135	77	34	23
7	102	72	3710	2160	846	1410	2770	352	130	74	34	22
8	121	68	2020	1840	800	1260	2230	335	126	71	33	22
9	75	65	2510	1650	758	1120	1890	324	122	68	31	22
10	135	78	3170	1510	721	1170	3680	310	118	65	31	22
11	150	132	2160	1380	685	1080	10100	300	115	64	31	21
12	100	851	2370	1270	650	934	8970	289	117	61	30	21
13	74	1130	3230	1140	1500	845	7780	274	117	58	29	21
14	62	2280	3730	1050	6290	817	8040	264	109	57	30	20
15	52	10900	4850	979	13600	751	5140	250	106	55	29	20
16	47	10700	3480	923	14900	766	3480	240	101	53	29	22
17	43	8690	2410	889	7660	734	2430	233	96	51	29	36
18	41	3520	8780	1010	4830	703	1840	227	92	50	29	42
19	39	1540	29700	1170	3360	677	1540	218	92	49	29	42
20	38	996	18000	1300	2430	635	1330	211	92	48	28	36
21	37	2520	9890	1310	1910	605	1170	204	90	47	27	33
22	37	2140	5930	1190	1640	572	1040	196	88	46	26	31
23	36	7390	4060	1510	1460	541	933	188	84	43	26	29
24	35	5750	2940	1510	1330	518	840	181	81	43	25	28
25	35	2880	2270	1440	1230	491	767	171	80	42	25	26
26	34	2590	2150	2860	1250	474	704	164	95	41	24	26
27	78	3480	2570	2440	1240	479	649	163	117	41	25	26
28	951	3410	2080	3180	1120	956	608	157	108	40	25	26
29	1120	2230	7360	2530	---	1280	576	154	111	39	25	26
30	475	1570	6310	1990	---	4320	546	149	105	38	25	26
31	267	---	4930	1690	---	12000	---	147	---	36	25	---
TOTAL	4388	75681	148125	61951	77168	51828	105833	8348	3341	1793	910	791
MEAN	142	2523	4778	1998	2756	1672	3528	269	111	57.8	29.4	26.4
MAX	1120	10900	29700	4570	14900	12000	10100	515	148	94	36	42
MIN	30	65	607	889	650	474	546	147	80	36	24	20
AC-FT	8700	150100	293800	122900	153100	102800	209900	16560	6630	3560	1800	1570
CAL YR 1981	TOTAL	383657	MEAN	1051	MAX	29700	MIN	15	AC-FT	761000		
WTR YR 1982	TOTAL	540157	MEAN	1480	MAX	29700	MIN	20	AC-FT	1071000		

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, Hydrologic Unit 18010106, 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 mi² (1,391 km²).

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) National Geodetic Vertical Datum of 1929. 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 Renbow Dam. No diversion above station.

AVERAGE DISCHARGE.--43 years, 1,913 ft³/s (54.18 m³/s), 1,386,000 acre-ft/yr (1.71 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 199,000 ft³/s (5,640 m³/s) Dec. 22, 1964, gage height, 46.0 ft (14.02 m), from floodmarks, from rating curve extended above 53,000 ft³/s (1,500 m³/s) on basis of slope-area measurement at gage height 42.7 ft (13.01 m); minimum observed, 9 ft³/s (0.25 m³/s) Oct. 17, 1944.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 15,000 ft³/s (425 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 15	1915	47,500 1,350	21.11 6.434	Feb. 16	0200	68,000 1,930	25.31 7.714
Nov. 23	1600	16,300 462	13.29 4.051	Mar. 31	0945	41,800 1,180	19.93 6.075
Dec. 19	1730	*123,000 3,480	34.79 10.604	Apr. 12	Unknown	30,000 850	Unknown
Dec. 29	2030	21,800 617	14.92 4.548				

Minimum daily, 41 ft³/s (1.16 m³/s) Sept. 15, 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	497	2740	10900	2850	8580	15600	1070	290	188	73	48
2	102	380	2290	9340	2360	8820	17500	1060	285	174	71	48
3	93	305	1950	7790	2040	7710	20600	1030	272	165	69	48
4	75	258	1700	9050	1780	6620	14000	968	270	158	70	47
5	70	228	1540	7790	1580	5000	9710	911	269	153	68	45
6	77	207	4030	5970	1420	3910	8120	832	268	146	68	45
7	271	188	7230	4590	1330	3190	6730	796	268	144	68	45
8	300	174	4370	3740	1290	2810	5480	735	265	140	66	44
9	218	162	4790	3120	1160	2500	4500	694	252	134	66	45
10	303	175	7050	2630	1100	2440	8600	685	243	131	64	44
11	385	287	4960	2290	1040	2490	15000	705	233	126	62	44
12	289	1630	4760	2170	1000	2090	25000	684	230	121	62	43
13	205	3010	6540	1870	3100	1880	22800	627	220	118	62	42
14	158	4540	8280	1630	15700	1800	21800	471	221	116	62	42
15	133	21800	10500	1470	34400	1680	13100	405	207	112	60	41
16	117	29400	8230	1360	40900	1790	8480	428	208	110	60	41
17	106	23300	5800	1260	17700	1730	6160	551	191	108	58	42
18	99	9180	20200	1400	10400	1710	4660	506	188	105	57	49
19	93	5140	83700	1780	7410	1630	3820	476	186	101	49	69
20	88	3800	57400	2170	5410	1500	3190	454	185	100	47	79
21	85	5340	28000	2370	4310	1420	2770	450	178	99	50	71
22	82	6340	15600	2000	3540	1370	2430	438	173	71	52	64
23	79	11600	9760	2460	2980	1300	2150	421	166	84	52	59
24	76	11500	6850	2780	2610	1290	1950	409	161	88	49	56
25	75	7320	5190	2450	2290	1240	1750	411	159	87	50	54
26	73	7700	4330	5460	2330	1220	1600	357	179	81	49	53
27	176	9460	5300	5390	2520	1260	1450	347	233	82	48	132
28	1870	6290	4400	6350	2220	2330	1330	339	233	83	46	210
29	2790	4480	12000	5370	---	3510	1290	332	216	82	48	63
30	1280	3400	15100	4230	---	7880	1170	320	201	77	49	50
31	716	---	10500	3450	---	31100	---	297	---	74	48	---
TOTAL	10606	178091	365090	124630	176770	123800	252740	18209	6649	3558	1803	1763
MEAN	342	5936	11780	4020	6313	3994	8425	587	222	115	58.2	58.8
MAX	2790	29400	83700	10900	40900	31100	25000	1070	290	188	73	210
MIN	70	162	1540	1260	1000	1220	1170	297	159	71	46	41
AC-FT	21040	353200	724200	247200	350600	245600	501300	36120	13190	7060	3580	3500
CAL YR 1981	TOTAL	885848	MEAN	2427	MAX	83700	MIN	27	AC-FT	1757000		
WTR YR 1982	TOTAL	1263709	MEAN	3462	MAX	83700	MIN	41	AC-FT	2507000		

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 1952-81.

WATER TEMPERATURES: Water years 1961 to current year.

SEDIMENT RECORDS: Water years 1955-62, 1981.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: November 1960 to current year.

SEDIMENT RECORDS: October 1980 to September 1981.

INSTRUMENTATION.--Temperature recorder since November 1960.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 34.0°C July 25, 1964; minimum recorded, 1.0°C Jan. 20, 21, 1963.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 27.5°C July 23, Aug. 22, 23; minimum recorded, 6.0°C Feb. 6, 7.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	8.0	16.0	13.5	20.0	16.0	22.0	19.5	23.0	20.0	23.5	20.5
2	8.5	8.5	16.0	13.0	19.5	16.0	22.0	19.5	23.0	20.0	23.0	20.5
3	8.5	8.5	16.0	12.5	19.0	16.5	22.0	18.5	23.0	20.5	23.0	20.0
4	9.5	8.5	16.5	12.5	18.0	16.0	23.0	18.5	25.5	21.0	23.5	19.5
5	9.5	9.0	17.5	13.5	19.0	15.5	23.5	19.0	25.5	20.0	24.0	19.5
6	9.0	8.5	18.5	14.5	17.5	16.0	23.0	19.0	25.5	20.0	23.5	19.5
7	9.0	8.5	17.5	15.0	20.0	16.0	21.0	18.5	24.5	21.0	23.0	19.0
8	10.5	8.5	16.5	13.5	21.5	17.0	22.0	18.0	26.5	22.0	23.5	19.5
9	11.0	9.0	16.0	12.5	22.5	18.5	23.0	18.5	23.5	21.5	24.0	20.0
10	10.5	10.0	17.0	13.5	22.0	19.0	24.0	19.5	24.5	21.0	22.0	19.0
11	10.5	10.0	17.5	14.0	19.5	18.0	24.0	20.5	25.0	21.5	21.0	17.5
12	10.0	9.5	18.0	14.5	20.5	17.5	24.0	21.0	26.0	20.5	21.5	18.0
13	9.5	9.5	18.0	15.0	21.0	17.5	24.5	21.0	25.5	21.0	22.5	18.5
14	9.5	9.5	18.5	15.0	22.5	17.5	24.0	21.0	25.5	21.5	22.0	18.0
15	10.0	9.5	19.0	14.5	24.0	18.5	22.5	20.5	25.5	20.5	20.0	18.5
16	11.0	9.5	18.5	14.5	26.0	21.5	22.5	19.5	25.0	20.0	20.0	18.0
17	11.5	10.0	18.0	14.5	27.0	22.0	24.0	20.0	25.0	20.0	20.0	18.0
18	12.0	10.0	17.5	13.0	25.5	21.5	25.0	22.0	25.5	20.0	19.0	18.0
19	13.0	9.5	19.0	13.0	23.0	21.0	25.5	22.5	24.5	21.0	19.0	17.5
20	13.5	10.5	19.0	14.5	24.0	20.5	25.5	22.5	25.0	21.5	20.5	17.5
21	14.0	11.0	19.5	15.0	23.5	20.5	26.5	22.0	25.5	21.0	21.0	18.0
22	14.5	11.5	19.0	15.5	23.5	20.0	26.5	22.0	27.5	22.0	22.0	18.5
23	14.5	11.5	20.0	15.0	23.5	20.5	27.5	22.5	27.5	23.0	21.5	18.5
24	14.5	11.5	22.0	17.0	22.0	20.5	27.0	22.5	27.0	23.0	21.5	19.0
25	14.5	12.0	22.5	18.5	22.5	20.5	25.0	21.5	25.0	21.5	20.5	18.5
26	14.5	12.5	19.5	17.0	22.5	20.5	26.5	20.5	25.5	21.5	18.5	17.0
27	15.5	12.5	19.0	15.5	22.5	20.5	23.0	22.0	25.0	22.0	19.0	17.0
28	15.0	13.0	19.5	15.5	22.5	20.5	24.5	21.0	22.5	21.0	19.0	17.0
29	15.5	12.0	20.5	16.5	22.0	20.5	23.0	20.5	23.5	20.0	18.5	16.5
30	15.0	12.0	20.5	17.0	22.0	20.0	23.0	19.5	24.0	20.0	18.5	15.5
31	---	---	18.5	16.5	---	---	22.0	20.0	24.5	20.0	---	---
MONTH	15.5	8.0	22.5	12.5	27.0	15.5	27.5	18.0	27.5	20.0	24.0	15.5

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, Hydrologic Unit 18010106, 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 mi² (72.8 km²).

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 269.36 ft (82.101 m) National Geodetic Vertical Datum of 1929. 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 good. Minor diversions above station for domestic use.

AVERAGE DISCHARGE.--22 years, 124 ft³/s (3.512 m³/s), 89,840 acre-ft/yr (111 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,520 ft³/s (185 m³/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 ft³/s (59.5 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.30 ft³/s (0.008 m³/s) Sept. 28, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,700 ft³/s (48.1 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 16	1800	3,840 109	10.17 3.100	Feb. 15	1945	2,100 59.5	8.16 2.487
Dec. 19	1345	3,600 102	9.92 3.024	Apr. 13	1045	2,160 61.2	8.25 2.515

Minimum daily, 1.3 ft³/s (0.037 m³/s) Sept. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	31	248	419	191	671	594	73	18	8.1	3.1	1.7
2	2.3	27	217	417	170	722	699	68	17	7.5	3.1	1.7
3	2.0	24	188	479	153	576	707	63	16	7.4	3.1	1.6
4	1.8	21	166	735	135	464	542	59	16	6.7	3.0	1.5
5	1.6	19	153	579	118	372	467	55	15	6.5	2.8	1.5
6	2.2	18	305	419	108	305	417	52	15	6.3	2.5	1.5
7	13	17	260	330	98	263	359	50	14	6.0	2.3	1.5
8	9.2	16	231	276	89	240	299	47	14	5.9	2.4	1.4
9	7.0	15	265	241	82	235	252	45	13	5.5	2.2	1.4
10	10	22	269	211	75	209	600	43	13	5.2	2.3	1.4
11	8.0	54	250	185	70	186	1500	41	12	5.0	2.3	1.4
12	7.1	131	280	162	65	165	1280	39	12	4.9	2.3	1.4
13	6.3	345	355	142	171	150	1800	37	11	4.7	2.3	1.4
14	5.7	380	366	125	454	142	1230	36	11	4.6	2.2	1.4
15	5.2	1500	483	112	905	143	847	35	11	4.3	2.2	1.3
16	4.9	2280	377	102	1080	149	638	33	10	4.2	2.2	1.4
17	4.5	1660	309	95	998	139	492	32	9.8	4.0	2.1	1.7
18	4.1	882	1020	101	818	135	352	30	9.5	4.0	2.1	2.0
19	3.8	585	3050	105	704	127	277	29	9.2	3.8	2.1	2.2
20	3.6	419	1990	113	530	117	234	28	8.8	3.8	2.0	2.0
21	3.3	483	1380	141	429	110	204	27	8.4	3.6	1.9	1.8
22	3.2	446	990	136	360	103	178	26	8.1	3.6	1.9	1.7
23	3.2	665	887	148	315	95	155	25	7.8	3.5	1.7	1.6
24	2.9	675	789	149	284	88	138	24	7.5	3.4	1.7	1.6
25	2.8	539	708	148	254	82	122	23	7.5	3.3	1.7	1.5
26	2.5	658	622	307	282	78	111	22	12	3.2	1.7	1.5
27	150	667	468	297	264	121	101	21	11	3.1	1.7	1.6
28	196	476	342	310	273	201	92	20	9.7	3.1	1.8	1.7
29	100	378	462	271	---	225	85	20	9.5	3.1	1.9	1.8
30	52	291	417	242	---	424	78	19	8.7	3.3	1.8	1.7
31	38	---	408	215	---	893	---	19	---	3.5	1.8	---
TOTAL	658.8	13724	18255	7712	9475	7930	14850	1141	345.5	145.1	68.2	47.9
MEAN	21.3	457	589	249	338	256	495	36.8	11.5	4.68	2.20	1.60
MAX	196	2280	3050	735	1080	893	1800	73	18	8.1	3.1	2.2
MIN	1.6	15	153	95	65	78	78	19	7.5	3.1	1.7	1.3
AC-FT	1310	27220	36210	15300	18790	15730	29450	2260	685	288	135	95

CAL YR 1981 TOTAL 55375.0 MEAN 152 MAX 3050 MIN 1.3 AC-FT 109800
WTR YR 1982 TOTAL 74352.5 MEAN 204 MAX 3050 MIN 1.3 AC-FT 147500

11477000 EEL RIVER AT SCOTIA, CA
(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 40°29'30", long 124°05'55", in SW¼ sec.5, T.1 N., R.1 E., Humboldt County, Hydrologic Unit 18010105, 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 mi² (8,063 km²).

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) National Geodetic Vertical Datum of 1929. 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.--72 years, 7,366 ft³/s (208.6 m³/s), 5,337,000 acre-ft/yr (6.58 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 752,000 ft³/s (21,300 m³/s) Dec. 23, 1964, gage height, 72.0 ft (21.95 m), from floodmarks, from rating curve extended above 220,000 ft³/s (6,230 m³/s) on basis of maximum flow at upstream stations; minimum observed, 10 ft³/s (0.28 m³/s) Aug. 12-14, 1924.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 72,000 ft³/s (2,040 m³/s) and maximum(*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 16	0545	151,000 4,280	33.64 10.253	Feb. 16	0915	218,000 6,170	39.92 12.168
Nov. 24	0430	85,400 2,420	26.21 7.989	Mar. 31	1745	102,000 2,890	28.21 8.598
Dec. 20	0345	*300,000 8,500	46.30 14.112	Apr. 3	1045	76,200 2,160	25.05 7.635
Dec. 30	0645	72,800 2,060	24.61 7.501	Apr. 11	2315	133,000 3,770	31.74 9.674

Minimum daily, 119 ft³/s (3.37 m³/s) Sept. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	454	2500	11500	48500	12900	28900	61300	9360	1640	849	248	136
2	385	2020	9860	41600	11200	51700	50100	8270	1580	868	240	136
3	290	1680	8750	33700	10100	38400	72900	7370	1520	832	231	136
4	258	1520	7650	39100	9350	31000	58600	7080	1470	769	223	133
5	225	1280	6720	40600	8340	23000	41500	6800	1410	714	216	132
6	280	1120	10300	31200	7270	18200	34000	6310	1370	674	210	133
7	430	1010	22900	23200	6530	14900	26800	6060	1310	636	206	133
8	640	926	17000	18400	5990	12900	21400	6020	1280	600	206	133
9	820	928	13900	15900	5530	11900	19000	5570	1240	575	203	130
10	1230	918	25900	14300	5120	11300	22800	5060	1170	546	198	124
11	1650	951	20700	13500	4740	12900	101000	4610	1130	514	199	123
12	1230	3110	16600	12800	4370	11900	116000	4250	1090	488	190	123
13	852	9830	22900	11600	5970	10600	92800	3930	1070	471	188	123
14	660	27600	32300	10200	44900	9560	97300	3760	1050	444	184	120
15	542	47800	35100	9230	88100	8960	66200	3590	1020	423	181	119
16	475	134000	34200	8440	175000	8540	44200	3420	981	409	179	128
17	430	106000	23300	7720	88700	8330	32700	3350	931	402	177	137
18	395	48100	34800	7610	52700	8350	26600	3270	890	388	171	133
19	370	24400	195000	9120	41400	8030	22700	3150	861	376	168	153
20	352	16900	232000	10100	33700	6980	20600	2970	836	359	168	169
21	335	16900	127000	11500	25600	6240	19800	2890	804	343	165	194
22	320	32700	70700	10300	20700	5720	18700	2830	806	330	160	206
23	315	43800	45400	10100	16900	5270	17600	2750	839	303	156	203
24	308	77000	32400	12700	14100	4890	16700	2610	785	291	152	191
25	299	46200	24500	12100	12000	4580	15500	2500	768	291	148	178
26	284	33500	20600	19000	10900	4390	14100	2400	809	280	146	166
27	428	39800	23400	28100	12000	4370	13000	2320	883	279	142	163
28	3380	27900	21700	25800	10500	6650	11900	2180	854	273	142	156
29	11800	19600	28300	23500	---	11700	10900	2030	862	266	140	293
30	7450	14800	63900	18300	---	20300	9030	1900	831	259	136	214
31	3720	---	45200	15200	---	78100	---	1760	---	251	136	---
TOTAL	40607	784793	1284480	593420	744610	488560	1175730	130370	32090	14503	5609	4618
MEAN	1310	26160	41430	19140	26590	15760	39190	4205	1070	468	181	154
MAX	11800	134000	232000	48500	175000	78100	116000	9360	1640	868	248	293
MIN	225	918	6720	7610	4370	4370	9030	1760	768	251	136	119
AC-FT	80540	1557000	2548000	1177000	1477000	969100	2332000	258600	63650	28770	11130	9160
CAL YR 1981	TOTAL	3470656	MEAN	9509	MAX	232000	MIN	66	AC-FT	6884000		
WTR YR 1982	TOTAL	5299390	MEAN	14520	MAX	232000	MIN	119	AC-FT	10510000		

EEL RIVER BASIN

11477000 EEL RIVER AT SCOTIA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952 to current year.

CHEMICAL ANALYSES: Water years 1952-75, 1977, 1979 to current year.

BIOLOGICAL DATA: Water year 1979-81.

SPECIFIC CONDUCTANCE: Water years 1979-81.

WATER TEMPERATURES: Water years 1958 to June 30, 1982 (discontinued).

SEDIMENT RECORDS: Water years 1955 to current year.

TURBIDITY: Water years 1965-68, 1972-73.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1979 to September 1981.

WATER TEMPERATURES: October 1957 to June 30, 1982 (discontinued).

SEDIMENT RECORDS: October 1957 to September 1980.

INSTRUMENTATION.--Temperature recorder since November 1960.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 27.0°C July 23, 1979; minimum recorded, 2.0°C Dec. 11, 1972.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 33,000 mg/l (estimated) Dec. 23, 1964; minimum daily mean, 1 mg/L several days in 1958-64, 1966-67, 1970, 1972-80.

SEDIMENT DISCHARGE: Maximum daily, 57,000,000 tons (51,700,000 metric tons), estimated, Dec. 23, 1964; minimum daily, 0.07 ton (0.06 metric ton) Aug. 13, 17-20, 1977.

EXTREMES FOR PERIOD.--

WATER TEMPERATURES: Maximum recorded, 23.5°C June 24, 25; minimum recorded, 6.0°C Jan. 21-23.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L AS CAC03)
NOV 25...	1130	45700	116	8.1	11.0	300	10.8	190	380	47	0
JAN 25...	1100	12000	147	8.0	8.0	69	11.3	K33	K26	61	1
MAR 03...	1115	38100	123	7.8	9.0	340	11.2	270	240	52	0
MAY 17...	1115	3420	174	8.1	15.5	6.9	9.8	K3	<1	77	2
JUL 21...	1200	343	286	8.3	22.0	1.7	8.8	K4	K10	135	5
SEP 09...	1130	133	309	8.1	21.0	.70	8.9	K1	K3	145	5

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY FIELD (MG/L AS CAC03)	ALKA- LINEITY LAB (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
NOV 25...	13	3.6	3.3	13	.2	.9	53	--	5.0	2.4	.1
JAN 25...	16	5.1	4.4	13	.3	.8	60	--	7.0	2.8	.1
MAR 03...	14	4.1	4.0	14	.3	.9	--	55	6.0	2.0	.1
MAY 17...	21	6.0	4.6	11	.2	.9	75	--	7.0	2.4	.1
JUL 21...	38	9.8	7.7	11	.3	1.5	130	--	16	4.9	.1
SEP 09...	40	11	8.8	12	.3	1.5	140	--	20	6.3	.1

See footnotes at end of table.

11477000 EEL RIVER AT SCOTIA, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
NOV 25...	10	70	64	.10	.11	.12	.47	.10	.01	.03
JAN 25...	11	84	85	.11	<.09	<.07	.00	.03	.01	.02
MAR 03...	11	74	75 ¹	.10	<.10	<.06	.37	.08	<.01	.02
MAY 17...	11	95	99	.13	<.10	<.06	.58	.05	<.01	.02
JUL 21...	11	166	165	.23	<.10	<.06	.60	.04	.02	.01
SEP 09...	9.7	264	183	.36	<.10	.06	.70	.04	.04	.01

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)
NOV 25...	1130	4	1	200	38	<1	<1	100	<10	13
JAN 25...	1100	1	1	100	39	1	2	20	<10	4
MAY 17...	1115	1	2	<100	53	1	<3	<10	10	<1
SEP 09...	1130	1	1	<100	95	1	<1	<10	<10	<1

DATE	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
NOV 25...	<3	43	7	37000	74	3	4	680	7	.2
JAN 25...	3	18	2	6700	45	4	1	130	5	.2
MAY 17...	1	8	2	1000	17	1	<1	20	4	.1
SEP 09...	<1	2	2	20	<3	<1	<1	10	4	<.1

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 25...	.3	100	3	<1	<1	<1	<1	100	4
JAN 25...	<.1	24	1	<1	<1	<1	<1	40	6
MAY 17...	<.1	7	2	<1	<1	<1	<1	20	<12
SEP 09...	<.1	4	2	1	<1	<1	<1	10	8

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

f Actual value is known to be less than the value shown.

1 Results based on Laboratory Alkalinity.

11477000 EEL RIVER AT SCOTIA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, OCTOBER 1981 TO JUNE 1982

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

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	14.5	13.5	17.5	16.0						
2	8.0	8.0	14.5	13.5	18.0	15.0						
3	8.0	8.0	15.0	13.5	17.5	15.0						
4	8.5	8.0	15.0	13.5	18.0	15.0						
5	8.5	8.0	16.5	14.0	17.5	15.0						
6	8.5	8.0	17.0	15.0	16.0	14.5						
7	8.5	8.0	16.0	15.5	17.5	14.0						
8	9.5	8.5	15.5	14.5	20.0	15.5						
9	10.0	9.0	15.5	14.5	20.5	16.5						
10	10.0	9.5	16.5	15.0	19.0	17.0						
11	10.0	9.5	17.5	15.5	17.0	16.0						
12	9.5	9.5	17.5	15.5	18.5	16.0						
13	10.0	9.5	17.0	16.0	17.0	15.5						
14	10.0	10.0	17.5	16.5	19.5	15.5						
15	10.0	9.5	18.0	16.0	21.5	17.5						
16	10.0	9.0	18.0	16.5	22.0	19.0						
17	10.0	9.0	17.5	15.5	22.0	19.0						
18	10.5	9.5	16.5	14.5	22.5	19.5						
19	11.0	10.0	17.5	15.0	21.0	19.5						
20	12.0	10.5	17.5	16.0	21.0	18.5						
21	12.5	11.0	17.0	16.0	22.5	19.5						
22	13.0	11.5	18.0	16.0	23.0	19.5						
23	13.5	12.0	19.0	16.5	23.0	20.0						
24	13.5	12.5	20.5	17.5	23.5	20.5						
25	13.0	12.0	20.0	18.5	23.5	20.5						
26	13.5	12.5	19.0	16.5	23.0	20.5						
27	14.0	12.5	17.5	15.5	21.5	20.0						
28	13.5	13.0	18.0	16.0	20.5	19.0						
29	14.0	12.5	19.0	16.5	19.5	18.0						
30	14.0	13.0	19.5	16.5	18.5	17.0						
31	---	---	18.5	17.0	---	---						
MONTH	14.0	8.0	20.5	13.5	23.5	14.0						

11477000 EEL RIVER AT SCOTIA, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
NOV 25...	1205	45000	11.0	1120	136000	--	--	--
JAN 25...	1030	12000	8.0	198	6420	--	--	--
MAR 03...	1045	38100	9.0	1130	116000	25	32	40
MAY 17...	1115	3420	15.5	27	249	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
NOV 25...	--	--	--	80	--	--	--
JAN 25...	--	--	--	70	--	--	--
MAR 03...	49	59	69	--	82	98	100
MAY 17...	--	--	--	81	--	--	--

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, Hydrologic Unit 18010105, 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 mi² (575 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 358.18 ft (109.173 m) National Geodetic Vertical Datum of 1929. 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.--32 years, 886 ft³/s (25.09 m³/s), 641,900 acre-ft/yr (791 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,700 ft³/s (1,380 m³/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 ft³/s (566 m³/s) on basis of slope-area measurement at gage height 21.3 ft (6.49 m), former site and datum; minimum daily, 4.6 ft³/s (0.13 m³/s) Aug. 8, 13-24, Sept. 9-15, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 15,000 ft³/s (425 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 15	1515	24,900 705	17.26 5.261
Dec. 19	1730	*25,500 722	17.45 5.319
Feb. 15	2330	17,700 501	14.60 4.450

Minimum daily, 9.6 ft³/s (0.27 m³/s) Sept. 11-16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	420	965	3540	1010	6690	1450	740	199	64	23	12
2	29	314	1130	2640	931	5010	1920	679	190	58	23	11
3	26	246	1130	2300	895	3210	2720	630	180	52	22	11
4	25	204	963	2750	883	2310	1760	612	172	49	22	11
5	23	174	862	2350	816	1740	1460	606	170	47	22	11
6	25	145	4070	1850	755	1410	1250	572	160	47	22	11
7	186	124	3550	1550	712	1230	1070	540	152	47	21	11
8	218	110	1700	1400	667	1140	985	508	142	48	20	11
9	126	99	2590	1360	620	1110	1120	475	134	55	20	11
10	438	92	3270	1370	588	1230	3380	445	128	54	19	9.9
11	314	115	1750	1430	558	1390	12900	420	123	50	18	9.6
12	158	1480	1670	1370	534	1130	7860	382	118	48	18	9.6
13	104	4400	3040	1220	1770	979	10500	374	115	46	17	9.6
14	76	10000	3050	1130	8380	926	8760	365	111	44	17	9.6
15	61	15800	4420	1070	8350	850	4380	356	108	43	17	9.6
16	52	14700	2530	993	9830	812	2440	342	100	40	16	9.6
17	45	9920	1640	942	5620	798	1720	329	95	39	16	10
18	40	4340	5330	1050	3250	853	1450	324	92	37	16	15
19	36	2090	20500	1060	5700	895	1300	306	87	36	15	17
20	34	1540	13300	1020	3360	787	1300	294	84	34	15	18
21	32	3430	8060	999	2990	701	1340	294	82	34	15	16
22	31	3180	4390	909	2220	647	1340	289	80	31	14	15
23	29	5420	2980	1270	1710	592	1370	283	77	30	13	15
24	28	6070	2180	1340	1440	551	1270	279	74	30	13	15
25	27	3030	1810	1280	1270	511	1130	276	71	29	13	15
26	27	3060	2740	2620	1200	487	1020	272	69	29	12	15
27	40	2250	3680	1890	1330	477	929	259	110	28	12	14
28	920	1550	2710	1600	1190	850	880	242	93	25	12	13
29	2310	1270	5270	1340	---	928	808	228	81	24	12	14
30	1070	1070	4610	1170	---	1240	759	215	71	24	12	14
31	611	---	3430	1090	---	2270	---	204	---	24	12	---
TOTAL	7171	96643	119320	47903	68579	43754	80571	12140	3468	1246	519	373.5
MEAN	231	3221	3849	1545	2449	1411	2686	392	116	40.2	16.7	12.5
MAX	2310	15800	20500	3540	9830	6690	12900	740	199	64	23	18
MIN	23	92	862	909	534	477	759	204	69	24	12	9.6
AC-FT	14220	191700	236700	95020	136000	86790	159800	24080	6880	2470	1030	741

CAL YR 1981 TOTAL 371351.0 MEAN 1017 MAX 20500 MIN 5.8 AC-FT 736600
WTR YR 1982 TOTAL 481687.5 MEAN 1320 MAX 20500 MIN 9.6 AC-FT 955400

11480390 MAD RIVER ABOVE RUTH RESERVOIR, NEAR FOREST GLEN, CA

LOCATION.--Lat 40°17'04", long 123°20'03", in NW¼NE¼ sec.24, T.2 S., R.7 E., Trinity County, Hydrologic Unit 18010102, Six Rivers National Forest, near right bank on downstream end of pier of Zenia Road Bridge, 1,600 ft (488 m) downstream from Marshall Creek, 1.2 mi (1.9 km) northwest of Ruth and 6.1 mi (9.8 km) southwest of Forest Glen.

DRAINAGE AREA.--93.8 mi² (242.9 km²).

PERIOD OF RECORD.--September to December 1971, July 1972, June to September 1977, April to May 1980 (discharge measurements only), June 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,660 ft (811 m), from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,300 ft³/s (320 m³/s) Dec. 19, 1981, gage height, 12.49 ft (3.807 m); no flow at times in every year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft³/s (85.0 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 15	1715	4,340 123	8.45 2.576	Feb. 15	2200	5,100 144	9.00 2.743
Dec. 19	1400	*11,300 320	12.49 3.807	Apr. 11	0900	5,890 167	9.53 2.905

Minimum, no flow Sept. 11-17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.45	30	320	1040	356	805	268	306	42	25	2.2	.38
2	.40	22	333	813	344	721	327	277	40	20	2.1	.57
3	.40	23	327	625	352	613	521	256	38	18	1.8	.61
4	.40	23	289	624	347	526	443	239	37	16	1.8	.44
5	.40	21	252	647	320	444	377	222	38	14	1.7	.29
6	.58	19	700	551	294	382	322	208	36	13	1.7	.12
7	1.3	18	766	465	276	336	285	196	34	11	1.7	.12
8	.99	17	523	413	262	315	290	186	31	11	1.6	.07
9	.94	16	636	397	247	294	354	173	29	11	1.6	.05
10	4.4	17	862	412	235	317	790	163	26	9.6	1.6	.03
11	2.6	24	624	446	219	312	4250	157	24	8.6	1.4	0
12	1.4	119	704	431	207	282	2290	148	23	7.7	1.4	0
13	1.2	350	1300	386	808	262	2540	136	22	7.4	1.4	0
14	1.1	895	1420	356	2690	257	2610	131	20	6.8	1.4	0
15	1.0	2590	1510	334	3090	245	1310	119	19	6.3	1.4	0
16	.98	2880	1030	312	3080	238	884	114	16	5.6	1.3	0
17	.91	2350	725	297	1540	227	753	107	14	5.1	1.2	0
18	.87	1140	2340	304	911	221	714	101	13	4.7	1.2	.10
19	.84	645	6550	296	1400	212	701	95	13	4.3	1.2	.10
20	.79	443	4400	285	885	200	740	91	14	4.1	1.1	.07
21	.79	659	2580	267	636	191	764	86	20	3.6	1.0	.09
22	.79	824	1400	246	501	181	774	79	20	3.4	.98	.09
23	.79	1630	904	268	422	174	752	75	15	3.2	.95	.09
24	.79	1470	670	320	365	166	659	69	12	3.1	.88	.06
25	.83	925	535	350	322	167	574	66	12	2.9	.77	.03
26	.97	771	487	557	318	163	502	62	15	2.8	.76	.03
27	2.5	680	544	518	307	160	439	58	26	2.5	.71	.04
28	143	567	526	472	282	187	406	53	23	2.4	.70	.01
29	304	453	1290	407	---	196	363	50	25	2.4	.84	.02
30	110	365	1420	376	---	200	329	47	31	2.4	.75	.01
31	55	---	1170	368	---	288	---	45	---	2.2	.61	---
TOTAL	641.41	19986	37137	13583	21016	9282	26331	4115	728	240.1	39.75	3.42
MEAN	20.7	666	1198	438	751	299	878	133	24.3	7.75	1.28	.11
MAX	304	2880	6550	1040	3090	805	4250	306	42	25	2.2	.61
MIN	.40	16	252	246	207	160	268	45	12	2.2	.61	0
AC-FT	1270	39640	73660	26940	41690	18410	52230	8160	1440	476	79	6.8
CAL YR 1981	TOTAL	99090.89	MEAN	271	MAX	6550	MIN	0	AC-FT	196500		
WTR YR 1982	TOTAL	133102.68	MEAN	365	MAX	6550	MIN	0	AC-FT	264000		

MAD RIVER BASIN

11480400 RUTH RESERVOIR NEAR FOREST GLEN, CA

LOCATION.--Lat 40°22'08", long 123°25'56", in NW¼NW¼ sec.19, T.1 S., R.7 E., Trinity County, Hydrologic Unit 18010102, Six Rivers National Forest, near center of Robert W. Matthews Dam on Mad River, 5.6 mi (9.0 km) west of Forest Glen.

DRAINAGE AREA.--121 mi² (313 km²).

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 National Geodetic Vertical Datum of 1929 (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 hm³) 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 hm³) Feb. 14, 1975, elevation, 2,665.98 ft (812.591 m); minimum, 11,700 acre-ft (14.4 hm³) Oct. 24-28, 1977; minimum elevation, 2,607.13 ft (794.653 m) Oct. 28, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 64,500 acre-ft (79.5 hm³) Dec. 19; maximum elevation, 2,664.56 ft (812.158 m) Dec. 19; minimum contents, 31,400 acre-ft (38.7 hm³) Oct. 26; minimum elevation, 2,633.93 ft (802.822 m).

Capacity table (elevation, in feet NGVD, and contents, in acre-feet)

2,595	6,670	2,640	37,300
2,600	8,520	2,645	42,300
2,605	10,700	2,650	47,400
2,610	13,300	2,655	52,900
2,615	16,500	2,660	58,700
2,620	20,100	2,665	65,000
2,625	23,900	2,670	72,300
2,630	27,800	2,675	80,300
2,635	32,500		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35100	33200	52200	54800	52800	55100	52800	53300	52300	52000	49400	45500
2	34900	33300	52100	54200	52500	55000	53000	53200	52300	52000	49200	45400
3	34700	33300	52000	53800	52500	54700	53400	53100	52200	52000	49300	45200
4	34500	33300	52100	53700	52800	54200	53300	53000	52200	51900	49200	45000
5	34300	33300	52100	53600	52800	53800	53100	53000	52200	51900	49100	44800
6	34200	33000	52200	53300	52600	53700	52900	52900	52200	51900	49000	44700
7	34100	33200	52700	53100	52400	53500	52700	52900	52200	51800	48900	44500
8	34000	33200	53200	52900	52200	53500	52500	52800	52200	51800	48700	44300
9	34000	33200	53400	52800	51900	53500	53500	52800	52200	51800	48600	44100
10	33800	33200	53600	52800	51700	53500	54400	52700	52200	51700	48400	43900
11	33700	33300	53300	52900	51600	53500	56400	52700	52200	51600	48300	43800
12	33600	33700	53500	52900	51400	53300	58400	52700	52200	51600	48200	43600
13	33400	34900	54600	52700	53900	53200	57500	52600	52200	51500	48000	43500
14	33400	36900	54800	52600	57300	53200	58300	52600	52200	51400	47900	43300
15	33200	45800	54900	52500	60100	52900	55900	52500	52200	51300	47800	43100
16	33100	54000	54300	52400	58200	52700	54900	52500	52200	51300	47600	42900
17	32900	55400	53800	52300	56400	52900	54400	52500	52200	51300	47500	42800
18	32800	54100	57900	52300	56000	52800	54200	52500	52100	51200	47300	42600
19	32600	53300	64100	52300	55600	52700	54400	52500	52100	51100	47200	42400
20	32500	52700	60100	52200	54800	52700	54600	52400	52100	51000	47100	42300
21	32300	53000	57400	52100	54200	52700	54700	52400	52100	50900	46900	42100
22	32100	53300	55600	52100	53900	52800	54700	52400	52100	50800	46800	41900
23	32000	54600	54600	52100	53400	52800	54700	52400	52000	50800	46700	41700
24	31800	54500	53900	52200	53200	52800	54500	52300	52000	50600	46600	41500
25	31600	53700	53500	52400	52900	52800	54200	52300	52000	50500	46500	41200
26	31500	53500	53200	52400	53100	52800	54000	52300	52000	50400	46300	41000
27	31600	53100	53200	52700	53200	52800	53900	52200	52000	50000	46200	40800
28	32000	52800	53300	52900	53500	52800	53700	52300	52000	49800	46100	40500
29	32700	52600	55000	53200	---	52700	53500	52300	52000	49700	46000	40300
30	33000	52300	55100	53000	---	52900	53400	52300	52000	49600	45900	40100
31	33200	---	55100	52900	---	53100	---	52300	---	49500	45700	---
MAX	35100	55400	64100	54800	60100	55100	58400	53300	52300	52000	49400	45500
MIN	31500	33000	52000	52100	51400	52700	52500	52200	52000	49500	45700	40100
a	2635.73	2654.43	2656.92	2654.95	2655.46	2655.11	2655.43	2654.41	2654.15	2651.92	2648.36	2642.75
b	-2100	+19100	+2800	-2200	+600	-400	+300	-1100	-300	-2500	-3800	-5600

CAL YR 1981 b +15700

WTR YR 1982 b +4800

a Elevation, in feet NGVD, at end of month.
b Change in contents, in acre-feet.

11480410 MAD RIVER BELOW RUTH RESERVOIR, NEAR FOREST GLEN, CA

LOCATION.--Lat 40°22'16", long 123°26'06", in SW¼SW¼ sec.18, T.1 S., R.7 E., Trinity County, Hydrologic Unit 18010102, Six Rivers National Forest, 1,200 ft (366 m) downstream from Robert W. Matthews Dam, 5.3 mi (8.5 km) northwest of Ruth, and 5.8 mi (9.3 km) west of Forest Glen.

DRAINAGE AREA.--121 mi² (313 km²).

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,560 ft (780 m), from topographic map.

REMARKS.--Records good except discharges below 30 ft³/s (0.85 m³/s) which are fair. Flow regulated by R. W. Matthews Dam, capacity, 51,800 acre-ft (63.9 hm³).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,600 ft³/s (385 m³/s) Dec. 19, 1981, gage height, 14.13 ft (4.307 m); minimum daily, 7.5 ft³/s (0.21 m³/s) Nov. 14, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,600 ft³/s (385 m³/s) Dec. 19, gage height, 14.13 ft (4.307 m); minimum daily, 7.5 ft³/s (0.21 m³/s) Nov. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	21	480	1750	540	1140	570	535	59	27	53	91
2	88	21	444	1300	516	1560	580	485	58	30	49	90
3	88	37	427	1150	505	1390	748	440	56	31	48	89
4	87	35	406	1050	499	1170	832	400	54	28	52	88
5	87	34	381	1000	475	972	755	369	52	27	60	87
6	87	34	513	910	439	813	658	342	51	32	66	91
7	74	34	896	770	406	696	570	310	50	31	66	95
8	54	34	819	667	376	597	523	285	49	33	65	94
9	53	34	730	610	348	527	545	266	48	36	65	93
10	54	34	944	591	329	560	901	248	45	36	64	89
11	54	35	889	616	325	601	3920	235	42	36	64	77
12	54	37	827	632	324	553	4410	217	39	36	68	76
13	50	21	1150	601	482	501	3790	201	35	41	70	75
14	43	7.5	1660	559	2460	466	4200	184	36	46	73	75
15	43	23	1830	521	4080	500	2870	173	35	45	72	95
16	61	346	1610	482	5750	450	2010	162	34	45	71	101
17	74	2300	1190	448	3360	345	1580	149	32	45	71	100
18	74	1890	2010	435	2230	341	1370	139	39	45	71	95
19	74	1150	8870	428	2200	330	1120	136	43	46	71	87
20	74	773	8810	414	1980	308	1150	130	42	45	70	86
21	74	724	5010	392	1520	288	1250	120	41	45	70	92
22	73	883	2900	363	1150	269	1280	113	38	45	69	93
23	73	1420	1920	347	911	251	1270	110	36	52	69	86
24	73	1790	1360	362	750	235	1170	104	32	56	66	91
25	73	1450	1030	399	641	204	1040	98	29	55	45	101
26	73	1120	821	578	493	197	917	86	30	55	56	99
27	73	974	740	754	518	203	813	79	31	54	55	98
28	58	815	660	767	518	250	720	68	30	54	55	96
29	23	672	1050	688	---	288	644	60	28	54	61	93
30	22	558	1800	613	---	326	584	62	26	54	77	82
31	21	---	1710	572	---	417	---	63	---	53	83	---
TOTAL	1997	17306.5	53887	20769	34125	16748	42790	6369	1220	1318	1995	2705
MEAN	64.4	577	1738	670	1219	540	1426	205	40.7	42.5	64.4	90.2
MAX	88	2300	8870	1750	5750	1560	4410	535	59	56	83	101
MIN	21	7.5	381	347	324	197	523	60	26	27	45	75
AC-FT	3960	34330	106900	41200	67690	33220	84870	12630	2420	2610	3960	5370
CAL YR 1981 TOTAL	127952.8		MEAN 351	MAX 8870	MIN 7.5	AC-FT 253800						
WTR YR 1982 TOTAL	201229.5		MEAN 551	MAX 8870	MIN 7.5	AC-FT 399100						

MAD RIVER BASIN

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, Hydrologic Unit 18010102, 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 mi² (370 km²).

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) National Geodetic Vertical Datum of 1929. 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.--29 years, 379 ft³/s (10.73 m³/s), 274,600 acre-ft/yr (339 hm³/yr) (unadjusted).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,200 ft³/s (1,110 m³/s) Dec. 22, 1955, gage height, 24.5 ft (7.468 m) present datum, from floodmarks, from rating curve extended above 8,100 ft³/s (229 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.60 ft³/s (0.017 m³/s) Sept. 15, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,200 ft³/s (430 m³/s) Dec. 19, gage height, 14.3 ft (4.359 m); minimum daily, 27 ft³/s (0.76 m³/s) Nov. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	29	580	1870	671	1600	644	490	73	33	53	86
2	83	27	546	1600	642	1850	730	440	71	34	51	86
3	83	34	523	1270	632	1630	944	420	70	31	48	85
4	82	40	488	1160	623	1370	993	399	69	33	52	84
5	82	38	453	1120	594	1140	909	375	68	37	56	82
6	86	38	756	1030	557	961	796	344	66	34	63	88
7	86	37	1140	916	520	828	725	313	64	36	63	89
8	57	36	1010	821	489	721	700	291	63	37	63	88
9	56	36	929	773	461	623	810	276	61	40	64	88
10	61	38	1150	763	440	691	920	260	59	40	64	87
11	56	40	1070	794	430	719	2200	246	56	40	63	75
12	55	89	1040	795	425	652	5800	230	55	39	67	72
13	54	250	1430	755	749	595	5100	217	51	39	67	71
14	45	354	1960	706	2700	556	5450	202	49	46	70	70
15	44	1260	2200	659	4820	613	3100	189	47	47	70	82
16	51	1430	1920	616	6890	554	2350	178	41	47	70	95
17	72	3000	1430	581	3940	415	2000	166	39	47	70	96
18	72	2310	2740	572	2470	412	1700	156	43	47	70	95
19	72	1420	10600	559	2480	398	1400	150	49	47	69	84
20	72	940	10800	547	2180	376	1440	145	46	47	69	83
21	72	974	5870	517	1680	355	1540	135	44	47	68	86
22	72	1100	3150	486	1320	335	1580	127	41	47	67	95
23	72	1790	2020	487	1070	317	1530	122	38	50	62	97
24	70	2200	1470	504	905	302	1300	116	34	55	43	104
25	70	1760	1150	545	781	278	1100	111	34	56	55	114
26	70	1410	1010	796	636	265	950	101	37	55	55	113
27	85	1220	968	924	620	269	810	93	34	55	54	111
28	139	1010	952	929	637	323	705	87	35	55	54	110
29	77	829	1460	843	---	354	610	74	31	55	56	108
30	46	676	1990	760	---	390	550	75	31	55	72	96
31	34	---	1860	713	---	502	---	75	---	54	76	---
TOTAL	2160	24415	64665	25411	40362	20394	49386	6603	1499	1385	1924	2720
MEAN	69.7	814	2086	820	1442	658	1646	213	50.0	44.7	62.1	90.7
MAX	139	3000	10800	1870	6890	1850	5800	490	73	56	76	114
MIN	34	27	453	486	425	265	550	74	31	31	43	70
AC-FT	4280	48430	128300	50400	80060	40450	97960	13100	2970	2750	3820	5400
CAL YR 1981	TOTAL	157066	MEAN 430	MAX 10800	MIN 27	AC-FT 311500						
WTR YR 1982	TOTAL	240924	MEAN 660	MAX 10800	MIN 27	AC-FT 477900						

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, Hydrologic Unit 18010102, 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 mi² (1,256 km²).

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) National Geodetic Vertical Datum of 1929. December 1910 to September 1913, nonrecording gage at site 0.1 mi (0.2 km) upstream at different datum. Aug. 15, 1950, to July 23, 1956, water-stage recorder at site 0.6 mi (1.0 km) upstream at datum 11.00 ft (3.353 m) higher. July 24, 1956, to Apr. 9, 1965, water-stage recorder at datum 5.00 ft (1.524 m) higher. Aug. 29 to Oct. 26, 1961, auxiliary water-stage recorder at site 0.5 mi (0.8 km) downstream at different datum.

REMARKS.--Records good except those for summer months, which are 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).--35 years, 1,498 ft³/s (42.42 m³/s), 1,085,000 acre-ft/yr (1.34 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81,000 ft³/s (2,290 m³/s) Dec. 22, 1964, gage height, 30.7 ft (9.36 m) present datum, from high-water profile; minimum daily, 0.10 ft³/s (0.003 m³/s) Aug. 29, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 37,200 ft³/s (1,050 m³/s) Dec. 19, gage height, 20.03 ft (6.105 m); minimum daily, 9.3 ft³/s (0.26 m³/s) Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	406	1900	7060	1990	6530	4210	1700	189	94	32	12
2	41	278	2430	6610	1860	7660	4270	1520	178	87	26	12
3	45	225	2830	5230	1830	6740	6230	1370	163	83	21	19
4	45	148	2280	4910	1780	5670	5610	1260	163	78	20	18
5	35	131	1940	4440	1660	4390	4730	1180	171	77	17	15
6	38	104	3430	3570	1530	3500	4620	1130	159	72	16	16
7	147	83	4490	2900	1410	2870	4210	1070	146	61	19	16
8	168	71	3240	2450	1300	2470	3100	988	143	58	25	16
9	96	63	2910	2250	1200	2200	2730	879	125	51	27	17
10	467	62	3960	2220	1110	2100	3520	804	121	42	24	18
11	420	87	3150	2280	1040	2390	13700	751	121	43	23	18
12	160	944	2900	2170	985	2140	14800	710	112	42	21	16
13	99	2390	4230	2020	1530	1900	14200	671	102	39	24	9.9
14	70	4840	5980	1860	8510	1790	16200	642	97	35	24	9.7
15	58	8450	6820	1730	10800	1770	10800	602	90	30	23	11
16	44	13600	5240	1620	16500	1890	7090	565	85	32	18	13
17	36	12100	3850	1580	11400	1660	5390	541	79	31	17	24
18	38	6870	5100	2010	7670	1820	4500	509	70	29	25	38
19	48	4160	23100	2450	9240	2240	4040	477	61	26	24	49
20	43	2990	27300	2300	7670	1810	3740	450	57	25	29	46
21	43	3450	17100	2220	9850	1570	4010	431	59	26	26	37
22	41	3980	10500	2070	6990	1420	4050	409	57	25	25	33
23	41	5910	7190	3600	4940	1310	4030	380	49	21	23	33
24	38	7850	5230	3100	3770	1220	3740	369	46	21	22	38
25	38	5690	4600	2600	3070	1140	3280	356	40	21	20	39
26	35	5980	8930	4650	2560	1050	2850	325	39	27	12	42
27	41	5210	9460	4490	2290	1060	2490	286	71	28	12	50
28	1260	3570	5800	3980	2050	2360	2260	257	84	30	14	49
29	2230	2730	7600	3110	---	2640	2050	237	99	31	16	49
30	1200	2170	8290	2460	---	3830	1850	205	103	31	12	47
31	686	---	6630	2190	---	7020	---	198	---	32	9.3	---
TOTAL	7790	104542	208410	96130	126535	88160	168300	21272	3079	1328	646.3	810.6
MEAN	251	3485	6723	3101	4519	2844	5610	686	103	42.8	20.8	27.0
MAX	2230	13600	27300	7060	16500	7660	16200	1700	189	94	32	50
MIN	35	62	1900	1580	985	1050	1850	198	39	21	9.3	9.7
AC-FT	15450	207400	413400	190700	251000	174900	333800	42190	6110	2630	1280	1610
a	5570	5260	4060	3890	4200	4810	4570	5120	4980	3760	4000	4910

CAL YR 1981 TOTAL 558472.3 MEAN 1530 MAX 27300 MIN 6.6 AC-FT 1108000 a 61940
WTR YR 1982 TOTAL 827002.9 MEAN 2266 MAX 27300 MIN 9.3 AC-FT 1640000 a 55130

a Diversion, in acre-feet, for municipal supply and industry use, furnished by Humboldt Bay Municipal Water District.

LITTLE RIVER BASIN

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, Hydrologic Unit 18010102, 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.--40.5 mi² (104.9 km²).

PERIOD OF RECORD.--October 1955 to current year. Prior to October 1971, published as "at Crannell."

REVISED RECORDS.--WSP 2129: 1956-60. WDR CA-78-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 17.62 ft (5.371 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--27 years, 142 ft³/s (4.021 m³/s), 102,900 acre-ft/yr (127 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,830 ft³/s (278 m³/s) Mar. 18, 1975, gage height, 14.19 ft (4.325 m), from rating curve extended above 3,100 ft³/s (87.8 m³/s) on basis of slope-area measurement at gage height 14.08 ft (4.292 m); minimum daily, 2.8 ft³/s (0.079 m³/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 ft³/s (85.0 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 16	1345	4,620 131	8.65 2.637
Dec. 19	1145	*6,640 188	10.62 3.237
Dec. 26	1245	4,080 116	8.18 2.493

Minimum daily, 5.1 ft³/s (0.144 m³/s) Sept. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	93	194	635	245	372	483	68	23	18	10	6.7
2	7.7	62	316	693	218	533	523	69	23	18	10	6.5
3	8.1	47	330	582	198	515	788	65	23	17	9.8	6.3
4	8.5	35	243	515	182	425	702	61	27	15	9.8	6.3
5	7.4	27	251	417	173	314	597	57	26	15	9.6	6.3
6	16	21	1100	320	151	246	774	54	23	14	9.4	6.3
7	53	18	542	253	150	207	721	51	22	14	9.4	6.3
8	28	16	333	210	141	179	435	49	20	13	9.0	5.9
9	33	15	383	179	132	155	323	48	20	13	9.0	5.9
10	139	15	419	160	124	155	283	46	20	12	9.0	5.8
11	47	59	293	137	120	160	390	45	20	11	8.8	5.7
12	35	353	520	124	115	141	610	43	19	11	8.8	5.9
13	30	267	861	111	350	124	885	41	19	11	8.6	5.5
14	26	292	1020	103	1300	119	1390	40	18	11	8.6	5.3
15	23	1010	1240	97	1370	117	767	38	18	10	8.4	5.1
16	21	2270	578	110	1700	126	440	37	17	10	8.4	5.5
17	19	1020	395	270	900	112	331	36	17	10	8.4	5.9
18	17	426	648	520	470	102	264	35	16	10	8.2	6.9
19	15	265	4040	280	653	92	220	34	16	10	8.2	8.1
20	14	203	2200	190	608	89	191	33	16	9.7	7.8	7.4
21	13	597	1010	155	860	85	168	32	16	9.7	7.8	6.0
22	12	584	605	143	490	78	154	31	16	9.7	7.6	5.9
23	12	804	444	740	394	68	130	30	15	9.5	7.4	5.9
24	11	559	359	500	317	68	127	28	15	9.1	7.4	5.9
25	10	404	384	340	257	65	113	26	15	9.1	7.1	5.4
26	10	1260	2140	980	224	64	108	25	22	9.1	7.1	5.6
27	40	756	1110	710	194	81	94	25	32	9.5	6.9	6.4
28	150	380	624	540	168	380	92	24	21	9.8	6.7	7.0
29	530	258	1060	425	---	545	86	23	21	10	6.9	6.6
30	275	195	901	340	---	677	81	23	19	10	7.1	6.2
31	150	---	573	285	---	1120	---	23	---	10	7.1	---
TOTAL	1769.6	12311	25116	11064	12204	7514	12270	1240	595	358.2	258.3	184.5
MEAN	57.1	410	810	357	436	242	409	40.0	19.8	11.6	8.33	6.15
MAX	530	2270	4040	980	1700	1120	1390	69	32	18	10	8.1
MIN	7.4	15	194	97	115	64	81	23	15	9.1	6.7	5.1
AC-FT	3510	24420	49820	21950	24210	14900	24340	2460	1180	710	512	366
CAL YR 1981	TOTAL	62219.7	MEAN 170	MAX 4040	MIN 4.9	AC-FT 123400						
WTR YR 1982	TOTAL	84884.6	MEAN 233	MAX 4040	MIN 5.1	AC-FT 168400						

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, Hydrologic Unit 18010102, 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.--67.7 mi² (175.3 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1953 to September 1958, October 1972 to current year.

REVISED RECORDS.--WDR CA-78-2: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 850 ft (259 m), from topographic map.

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

AVERAGE DISCHARGE.--15 years, 362 ft³/s (10.25 m³/s), 185,500 acre-ft/yr (229 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, 2.6 ft³/s (0.074 m³/s) Aug. 24, Sept. 11-15, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,900 ft³/s (54.8 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 15	1400	5,000 142	9.26 2.822	Feb. 15	2145	3,590 102	8.14 2.481
Dec. 19	1700	*5,730 162	9.72 2.963	Mar. 1	0945	2,210 62.6	6.79 2.070
Dec. 26	1700	4,750 135	9.07 2.765	Apr. 14	0030	2,480 70.2	7.08 2.158

Minimum daily, 3.9 ft³/s (0.11 m³/s) Sept. 10-16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	80	320	1070	375	1280	574	339	77	31	11	6.8
2	8.6	64	467	934	376	928	702	311	73	29	11	6.1
3	12	52	459	786	355	794	832	289	70	28	11	4.9
4	9.4	41	354	798	358	661	649	283	70	26	11	4.9
5	8.9	36	342	707	346	538	626	283	70	25	11	4.9
6	11	33	949	611	335	468	574	289	66	24	11	4.9
7	51	32	650	518	316	408	540	262	63	23	10	4.9
8	28	28	470	473	298	377	482	256	58	23	10	4.7
9	27	27	535	453	288	357	506	208	51	22	9.0	4.1
10	127	27	543	447	265	417	650	197	48	20	9.0	3.9
11	57	35	420	442	230	415	1290	180	47	20	9.2	3.9
12	31	199	446	415	220	355	1410	180	46	19	9.2	3.9
13	25	527	811	359	490	339	1850	176	44	18	9.2	3.9
14	21	717	845	315	1650	319	2120	167	43	18	9.0	3.9
15	18	1900	1130	294	1660	311	1360	161	40	18	8.7	3.9
16	16	2550	659	278	1640	299	964	153	37	17	9.7	3.9
17	16	1900	509	313	1190	271	752	147	35	16	11	4.4
18	16	816	1300	375	849	306	657	143	33	15	11	9.0
19	13	479	4170	336	1490	303	587	134	32	15	10	12
20	11	392	2870	323	1120	289	565	132	32	14	9.6	12
21	11	669	1980	317	1660	276	565	130	31	13	8.6	11
22	10	576	1190	338	1180	257	561	127	27	13	7.7	9.6
23	10	1100	812	667	879	245	561	120	22	13	6.6	7.0
24	9.9	1370	626	583	723	243	536	113	21	12	6.1	6.3
25	9.9	749	548	558	591	243	500	109	21	12	5.5	6.0
26	9.9	873	2250	871	545	256	464	104	29	12	5.4	6.9
27	17	645	1970	665	483	245	423	95	45	12	5.4	12
28	360	459	1520	580	452	307	408	89	36	12	5.6	12
29	314	363	1870	490	---	320	380	84	36	11	7.8	12
30	179	298	1430	431	---	433	356	79	35	11	8.7	12
31	111	---	1160	398	---	856	---	77	---	11	8.3	---
TOTAL	1557.0	17037	33605	16145	20364	13116	22444	5417	1338	553	276.3	205.7
MEAN	50.2	568	1084	521	727	423	748	175	44.6	17.8	8.91	6.86
MAX	360	2550	4170	1070	1660	1280	2120	339	77	31	11	12
MIN	8.4	27	320	278	220	243	356	77	21	11	5.4	3.9
AC-FT	3090	33790	66660	32020	40390	26020	44520	10740	2650	1100	548	408
CAL YR 1981 TOTAL	94875.0			MEAN 260	MAX 4170	MIN 4.5	AC-FT 188200					
WTR YR 1982 TOTAL	132058.0			MEAN 362	MAX 4170	MIN 3.9	AC-FT 261900					

REDWOOD CREEK BASIN

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 September 1981, October 1981 to September 1982 (storm season only).

SEDIMENT RECORDS:--October 1972 to September 1981, October 1981 to September 1982 (storm season only).

INSTRUMENTATION.--Temperature recorder October 1972 to September 30, 1980.

REMARKS.--Zero bedload discharge observed at flows less than 154 ft³/s (4.36 m³/s). Data is collected only during seasonal flows.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 33.5°C Aug. 2, 1977; minimum recorded, 0.5°C Jan. 9, 1977.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 11,200 mg/L Mar. 18, 1975; minimum daily mean, 0 mg/L on several days in 1976 and Oct. 5-8, 1980.

SEDIMENT DISCHARGE: Maximum daily, 276,000 tons (250,000 metric tons) Mar. 18, 1975; minimum daily, 0 ton (0 metric ton) on several days in 1976 and Oct. 5-8, 1980.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum observed, 15.0°C Oct. 4, 6, 21, 25; minimum observed, 4.0°C Jan. 7.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,170 mg/L Dec. 19; minimum daily mean, 1 mg/L many days.

SEDIMENT DISCHARGE: Maximum daily, 38,800 tons (35,200 metric tons) Dec. 19; minimum daily, 0 ton (0 metric ton) Oct. 1, 2, 5.

TEMPERATURE (DEG. C) OF WATER, OCTOBER 1981 TO APRIL 1982
ONCE-DAILY

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

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), OCTOBER 1981 TO APRIL 1982

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	8.4	1	.02	80	2	.43	320	16	15
2	8.6	1	.02	64	1	.17	467	48	67
3	12	1	.03	52	1	.14	459	69	86
4	9.4	1	.03	41	1	.11	354	42	40
5	8.9	1	.02	36	1	.10	342	28	26
6	11	7	.21	33	1	.09	949	836	2850
7	51	12	1.7	32	1	.09	650	240	421
8	28	8	.60	28	1	.08	470	54	69
9	27	7	.51	27	1	.07	535	167	307
10	127	30	10	27	1	.07	543	100	147
11	57	15	2.3	35	1	.09	420	31	35
12	31	10	.84	199	76	51	446	76	97
13	25	7	.47	527	213	350	811	143	354
14	21	4	.23	717	192	440	845	140	319
15	18	3	.15	1900	1640	13000	1130	350	1180
16	16	2	.09	2550	1460	10300	659	95	169
17	16	2	.09	1900	750	3850	509	46	63
18	16	1	.04	816	240	529	1300	858	4100
19	13	1	.04	479	75	97	4170	3170	38800
20	11	1	.03	392	70	74	2870	2510	20000
21	11	1	.03	669	381	870	1980	1550	8700
22	10	1	.03	576	348	584	1190	820	2630
23	10	1	.03	1100	1200	3770	812	500	1100
24	9.9	1	.03	1370	1030	4190	626	260	439
25	9.9	1	.03	749	190	384	548	180	266
26	9.9	1	.03	873	430	1030	2250	2300	20300
27	17	2	.09	645	190	331	1970	1540	8190
28	360	180	197	459	51	63	1520	1100	4730
29	314	81	83	363	38	37	1870	1170	5950
30	179	14	6.8	298	34	27	1430	740	2860
31	111	6	1.8	---	---	---	1160	615	1950
TOTAL	1557.0	---	306.29	17037	---	39978.44	33605	---	126260

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1070	385	1110	375	18	18	1280	1870	7520
2	934	205	517	376	13	13	928	618	1710
3	786	180	382	355	12	12	794	190	407
4	798	150	323	358	11	11	661	75	134
5	707	105	200	346	10	9.3	538	59	86
6	611	79	130	335	8	7.2	468	50	63
7	518	42	59	316	6	5.1	408	42	46
8	473	30	38	298	6	4.8	377	36	37
9	453	28	34	288	5	3.9	357	33	32
10	447	25	30	265	6	4.3	417	81	97
11	442	20	24	230	9	5.6	415	50	56
12	415	16	18	220	10	5.9	355	22	21
13	359	13	13	490	330	552	339	18	16
14	315	9	7.7	1650	775	3470	319	14	12
15	294	9	7.1	1660	1330	7370	311	13	11
16	278	11	8.3	1640	1380	6730	299	11	8.9
17	313	13	11	1190	711	2370	271	9	6.6
18	375	50	52	849	360	825	306	57	50
19	336	26	24	1490	809	3430	303	22	18
20	323	20	17	1120	571	1870	289	13	10
21	317	22	19	1660	849	3850	276	9	6.7
22	338	45	41	1180	330	1050	257	9	6.2
23	667	260	471	879	160	380	245	8	5.3
24	583	64	101	723	108	211	243	6	3.9
25	558	35	53	591	75	120	243	5	3.3
26	871	440	1090	545	39	57	256	10	6.9
27	665	130	233	483	32	42	245	10	6.6
28	580	32	50	452	26	32	307	93	80
29	490	28	37	---	---	---	320	105	91
30	431	27	31	---	---	---	433	242	354
31	398	24	26	---	---	---	856	331	808
TOTAL	16145	---	5157.1	20364	---	32459.1	13116	---	11713.4

REDWOOD CREEK BASIN

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), OCTOBER 1981 TO APRIL 1982

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	574	85	132						
2	702	278	631						
3	832	305	685						
4	649	125	219						
5	626	112	189						
6	574	97	155						
7	540	50	73						
8	482	40	52						
9	506	300	410						
10	650	1300	2280						
11	1290	2060	7170						
12	1410	1060	4040						
13	1850	1930	10100						
14	2120	1550	8870						
15	1360	525	1930						
16	964	220	573						
17	752	145	294						
18	657	130	231						
19	587	112	178						
20	565	93	142						
21	565	92	140						
22	561	92	139						
23	561	83	126						
24	536	91	132						
25	500	85	115						
26	464	50	63						
27	423	28	32						
28	408	26	29						
29	380	27	28						
30	356	25	24						
31	---	---	---						
TOTAL	22444	---	39182						
PERIOD	132058.0		255056						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, OCTOBER 1981 TO APRIL 1982

MONTH	WATER DISCHARGE	SUSPENDED SEDIMENT DISCHARGE	BEDLOAD DISCHARGE	TOTAL SEDIMENT DISCHARGE
	CFS-DAYS	TONS	TONS	TONS
OCTOBER 1981	1557.00	306.29	99	405
NOVEMBER ...	17037.00	39978.44	11500	51400
DECEMBER ...	33605.00	126260.00	25100	151000
JANUARY 1982	16145.00	5157.10	6560	11700
FEBRUARY ...	20364.00	32459.10	13000	45500
MARCH	13116.00	11713.40	4280	16000
APRIL	22444.00	39182.00	13500	52600
TOTAL	124268.00	255056.33	74039	328605

11482110 LACKS CREEK NEAR ORICK, CA

LOCATION.--Lat 41°03'39", long 123°51'57", unsurveyed, Humboldt County, Hydrologic Unit 18010102, on right bank at private road bridge, 0.3 mi (0.5 km) upstream from mouth, and 19 mi (31 km) southeast of Orick.

DRAINAGE AREA.--16.9 mi² (43.8 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 480 ft (146 m), from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,480 ft³/s (41.9 m³/s) Nov. 15, 1981, gage height, 25.83 ft (7.873 m); minimum daily, 0.38 ft³/s (0.011 m³/s) Oct. 10, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,100 ft³/s (31.2 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 15	1130	*1,480 41.9	25.83 7.873
Dec. 19	2115	1,380 39.1	25.74 7.846

Minimum daily, 0.46 ft³/s (0.013 m³/s) Sept. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	31	72	265	59	176	218	34	6.9	4.8	1.5	.70
2	1.8	20	106	234	59	229	297	32	6.8	4.5	1.5	.70
3	2.3	14	70	197	59	274	423	30	6.6	4.5	1.4	.70
4	2.0	9.1	52	211	59	262	322	27	7.8	4.2	1.4	.70
5	1.8	6.2	130	207	57	177	274	24	7.5	4.0	1.3	.70
6	19	4.4	400	161	51	126	245	22	6.8	3.9	1.2	.65
7	54	3.3	200	121	46	97	211	20	6.6	3.7	1.1	.64
8	17	2.7	130	99	42	80	177	20	6.1	3.7	1.1	.60
9	36	2.2	148	91	39	68	169	19	5.6	3.4	1.0	.56
10	117	3.1	125	89	35	60	325	18	5.3	3.3	1.0	.59
11	43	51	113	89	33	59	697	17	5.3	3.1	1.2	.54
12	20	176	112	81	30	54	643	16	5.2	3.0	1.3	.52
13	12	220	113	69	119	48	722	15	5.1	2.9	1.3	.52
14	7.6	330	133	63	232	44	912	15	5.1	2.8	1.0	.52
15	5.2	675	158	56	340	44	468	14	4.9	2.6	1.0	.47
16	4.0	644	128	51	576	49	280	13	4.5	2.6	1.0	.46
17	3.4	494	128	50	487	49	192	13	4.3	2.5	.97	.63
18	2.9	323	365	115	301	47	142	13	4.2	2.4	.97	1.5
19	2.7	210	890	109	357	47	118	12	4.0	2.2	.91	2.3
20	2.4	173	657	107	370	46	113	11	3.9	2.0	.90	1.7
21	2.1	338	434	98	662	44	116	11	3.7	1.8	.90	1.3
22	1.8	312	268	97	361	41	116	10	3.6	1.8	.84	1.1
23	1.7	342	193	133	218	39	104	9.8	3.4	1.7	.78	.98
24	1.7	317	143	113	143	36	89	9.0	3.2	1.6	.71	.97
25	1.6	225	131	102	105	34	75	8.2	3.2	1.6	.70	.92
26	1.5	340	349	131	87	34	64	8.2	6.7	1.6	.70	1.0
27	8.7	297	368	110	74	38	55	8.1	7.7	1.6	.70	1.7
28	163	184	263	97	63	77	48	7.7	5.5	1.6	.70	1.6
29	207	121	376	78	---	94	43	7.3	5.3	1.6	.70	1.6
30	105	83	333	64	---	212	38	7.0	5.2	1.6	.70	1.5
31	54	---	267	60	---	435	---	6.9	---	1.6	.70	---
TOTAL	903.9	5951.0	7355	3548	5064	3120	7696	478.2	160.0	84.2	31.18	28.37
MEAN	29.2	198	237	114	181	101	257	15.4	5.33	2.72	1.01	.95
MAX	207	675	890	265	662	435	912	34	7.8	4.8	1.5	2.3
MIN	1.5	2.2	52	50	30	34	38	6.9	3.2	1.6	.70	.46
AC-FT	1790	11800	14590	7040	10040	6190	15270	949	317	167	62	56
CAL YR 1981 TOTAL	26832.50			MEAN 73.5	MAX 890	MIN .44	AC-FT 53220					
WTR YR 1982 TOTAL	34419.85			MEAN 94.3	MAX 912	MIN .46	AC-FT 68270					

REDWOOD CREEK BASIN

11482110 LACKS CREEK NEAR ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975-76, 1978 to current year.

CHEMICAL ANALYSES: Water years 1975-76, 1978.

SEDIMENT RECORDS: Water years 1975, 1978 to current year.

REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies," Data Release Number 2.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
OCT								
16...	1035	4.0	9.0	3	.03	--	--	--
NOV								
18...	1345	315	11.0	144	122	--	--	--
DEC								
11...	1540	101	9.0	22	6.0	--	--	--
JAN								
13...	1315	66	6.0	12	2.1	--	--	--
FEB								
17...	1530	471	10.0	354	450	20	27	34
MAR								
01...	1550	184	9.5	80	40	--	--	--
APR								
21...	1100	119	10.5	28	9.0	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
OCT								
16...	--	--	69	--	--	--	--	--
NOV								
18...	--	--	69	78	86	95	100	--
DEC								
11...	--	--	79	--	--	--	--	--
JAN								
13...	--	--	84	--	--	--	--	--
FEB								
17...	42	49	55	61	66	77	88	100
MAR								
01...	--	--	80	--	--	--	--	--
APR								
21...	--	--	74	--	--	--	--	--

11482120 REDWOOD CREEK ABOVE PANTHER CREEK, NEAR ORICK, CA

LOCATION.--Lat 41°05'21", long 123°54'23", unsurveyed, Humboldt County, Hydrologic Unit 18010102, on right bank 100 ft (30 m) upstream from Panther Creek, 2.0 mi (3.2 km) upstream from south boundary of Redwood National Park, 16 mi (25.7 km) southeast of Orick, and 28 mi (45.1 km) upstream from mouth.

DRAINAGE AREA.--150 mi² (389 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 490 ft (149 m), from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,000 ft³/s (453 m³/s) Dec. 19, 1981, gage height, 17.09 ft (5.209 m); minimum daily, 6.2 ft³/s (0.18 m³/s) Sept. 14, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft³/s (142 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 15	1715	6,970 197	11.57 3.527	Feb. 15	2330	8,190 232	12.44 3.792
Dec. 19	2245	*16,000 453	17.09 5.209	Apr. 14	0400	6,260 177	10.98 3.347
Dec. 26	1900	8,400 238	12.59 3.837				

Minimum daily, 6.5 ft³/s (0.18 m³/s) Sept. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	236	1000	2610	920	2150	1650	457	122	61	18	7.8
2	20	142	1170	2290	805	2100	1960	427	120	47	18	7.8
3	21	120	1210	2040	715	2170	2760	405	113	56	18	7.5
4	19	105	1020	2110	640	1970	2320	383	118	55	17	6.7
5	17	93	975	1880	590	1610	2000	366	120	49	17	6.7
6	22	82	2460	1500	543	1350	1940	355	112	48	17	6.7
7	111	75	2010	1210	508	1150	1780	350	106	44	17	6.7
8	60	69	1440	1010	482	999	1510	333	104	44	16	6.7
9	69	64	1480	905	459	905	1390	311	96	43	16	6.7
10	285	66	1650	854	444	863	1830	291	92	42	16	6.7
11	152	118	1270	807	430	861	3930	277	90	39	16	6.6
12	84	468	1520	724	413	766	3730	263	90	38	16	6.6
13	59	872	2550	700	857	681	4200	254	87	37	15	6.6
14	47	1820	2930	620	3920	648	5350	246	84	35	14	6.6
15	40	3550	3280	590	4090	625	3480	237	79	34	13	6.6
16	35	4780	2280	618	5210	630	2420	226	67	34	13	6.5
17	31	4000	1720	795	3460	607	1880	218	66	33	12	6.6
18	29	2380	3490	1130	2350	610	1570	214	65	28	11	8.3
19	26	1610	10600	1020	3180	634	1380	201	62	26	11	11
20	24	1380	7900	960	2700	597	1230	192	60	27	11	11
21	24	2140	4220	900	4380	565	1110	189	59	25	10	11
22	23	2090	2890	815	2990	537	993	186	55	23	9.5	11
23	22	2590	2300	1590	2120	515	925	182	52	22	9.3	11
24	22	2780	1900	1450	1700	494	845	171	50	22	8.4	11
25	21	2050	1710	1300	1450	475	755	163	70	21	7.8	11
26	21	2690	4370	2170	1260	474	671	158	95	21	7.6	11
27	35	2390	4180	1980	1080	486	594	150	89	21	7.4	11
28	430	1680	2990	1700	924	686	549	141	81	20	7.4	11
29	860	1310	3960	1410	---	774	516	135	73	19	7.7	11
30	520	1070	3440	1190	---	1290	481	128	65	19	8.0	11
31	397	---	2740	1060	---	2620	---	123	---	19	7.8	---
TOTAL	3545	42820	86655	39938	48620	30842	55749	7732	2542	1052	392.9	256.4
MEAN	114	1427	2795	1288	1736	995	1858	249	84.7	33.9	12.7	8.55
MAX	860	4780	10600	2610	5210	2620	5350	457	122	61	18	11
MIN	17	64	975	590	413	474	481	123	50	19	7.4	6.5
AC-FT	7030	84930	171900	79220	96440	61180	110600	15340	5040	2090	779	509
CAL YR 1981 TOTAL	223458.5			MEAN 612	MAX 10600	MIN 6.2	AC-FT 443200					
WTR YR 1982 TOTAL	320144.3			MEAN 877	MAX 10600	MIN 6.5	AC-FT 635000					

REDWOOD CREEK BASIN

11492120 REDWOOD CREEK ABOVE PANTHER CREEK, NEAR ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974-76, 1980 to current year.

CHEMICAL ANALYSES: Water years 1974-75.

SEDIMENT RECORDS: Water years 1974-76, 1980 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.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
NOV 02...	1325	142	11.5	2	.77	--	--	--	--	--	--
DEC 09...	1545	1570	10.5	272	1150	--	--	--	--	--	--
21...	1630	3820	7.0	1540	15900	--	19	26	35	43	51
JAN 04...	1410	2180	8.0	466	2740	15	20	27	33	39	--
FEB 10...	1500	443	6.0	10	12	--	--	--	--	--	--
MAR 19...	1400	627	8.5	74	125	--	--	--	--	--	--
APR 14...	1130	5400	8.5	2330	34000	7	11	16	22	28	--

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
NOV 02...	91	--	--	--	--	--	--	--	--	--
DEC 09...	54	--	--	--	--	--	--	--	--	--
21...	--	60	--	71	--	87	--	99	--	--
JAN 04...	44	--	49	--	57	--	77	--	85	94
FEB 10...	70	--	--	--	--	--	--	--	--	--
MAR 19...	55	--	--	--	--	--	--	--	--	--
APR 14...	33	--	38	--	45	--	54	--	69	90

11482125 PANTHER CREEK NEAR ORICK, CA

LOCATION.--Lat 41°05'19", long 123°54'26", unsurveyed, Humboldt County, Hydrologic Unit 18010102, on right bank 300 ft (91 m) upstream from mouth, 16 mi (26 km) southeast of Orick.

DRAINAGE AREA.--6.07 mi² (15.72 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 400 ft (122 m), from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 650 ft³/s (18.4 m³/s) Dec. 19, 1981, gage height, 3.92 ft (1.195 m); minimum daily, 0.43 ft³/s (0.012 m³/s) Oct. 5, 1979 and Sept. 24, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 250 ft³/s (7.08 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	(m ³ /s)	Gage height (ft)	(m)	Date	Time	Discharge (ft ³ /s)	(m ³ /s)	Gage height (ft)	(m)
Dec. 19	2130	*650	18.4	3.92	1.195	Feb. 21	0330	264	7.48	3.00	.914
Dec. 29	2030	285	8.07	3.06	0.933	Apr. 14	Unknown	381	10.8	3.26	.994
Feb. 15	1600	314	8.89	3.14	.957						

Minimum daily, 0.44 ft³/s (0.012 m³/s) Sept. 7, 8, 1982.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.91	6.0	50	145	55	72	110	23	6.0	3.3	1.3	.54
2	1.1	5.2	64	129	50	75	130	21	5.9	3.1	1.1	.46
3	1.1	4.8	56	110	47	79	171	20	5.7	3.0	1.1	.46
4	1.1	4.6	52	107	43	73	165	19	6.7	2.9	1.1	.46
5	.94	4.4	54	98	38	67	159	18	5.5	2.8	1.0	.46
6	2.9	4.3	102	86	32	63	162	17	5.4	2.7	.89	.46
7	5.4	4.2	89	78	28	57	155	16	5.1	2.6	.89	.44
8	3.6	5.2	79	71	25	52	136	15	4.8	2.6	.92	.44
9	6.6	5.0	82	59	25	46	114	14	4.5	2.4	.86	.46
10	11	5.8	77	48	30	46	111	13	4.3	2.3	.81	.46
11	5.1	10	68	39	33	43	138	13	4.5	2.3	.89	.46
12	3.4	25	80	35	31	38	186	12	4.4	2.3	.89	.46
13	2.8	29	126	32	40	35	187	12	4.1	2.0	.89	.46
14	2.3	36	177	29	120	33	190	11	4.0	2.0	.88	.46
15	2.0	98	209	27	167	30	135	11	3.9	2.0	.75	.46
16	2.0	142	155	84	250	29	110	11	3.7	1.9	.74	.46
17	1.5	113	116	98	208	26	90	10	3.5	2.0	.65	.55
18	1.5	94	152	82	154	23	77	10	3.3	1.6	.65	.89
19	1.5	78	436	73	147	31	67	9.8	3.2	1.5	.65	.89
20	1.5	92	397	62	167	39	59	9.4	3.3	1.5	.65	.75
21	1.5	140	262	55	230	36	53	9.1	3.1	1.4	.65	.75
22	1.4	114	171	48	164	35	47	8.8	2.9	1.3	.65	.75
23	1.3	160	112	90	129	33	43	8.4	2.7	1.3	.65	.65
24	1.1	125	82	72	98	32	39	8.0	2.7	1.2	.56	.65
25	1.1	95	65	60	80	32	35	7.7	2.6	1.1	.55	.65
26	1.1	135	152	130	71	32	32	7.4	4.1	1.1	.55	.65
27	3.4	125	170	125	61	35	30	7.1	4.1	1.3	.55	.89
28	15	80	133	104	54	50	28	6.8	3.7	1.3	.55	.89
29	17	60	184	85	---	59	26	6.6	3.6	1.3	.55	.80
30	11	42	214	73	---	90	24	6.3	3.5	1.3	.55	.75
31	7.5	---	159	62	---	151	---	6.1	---	1.3	.55	---
TOTAL	119.65	1842.5	4325	2396	2577	1542	3009	367.5	124.8	60.7	23.97	17.91
MEAN	3.86	61.4	140	77.3	92.0	49.7	100	11.9	4.16	1.96	.77	.60
MAX	17	160	436	145	250	151	190	23	6.7	3.3	1.3	.89
MIN	.91	4.2	50	27	25	23	24	6.1	2.6	1.1	.55	.44
AC-FT	237	3650	8580	4750	5110	3060	5970	729	248	120	48	36
CAL YR 1981	TOTAL	10983.49	MEAN	30.1	MAX	436	MIN	.43	AC-FT	21790		
WTR YR 1982	TOTAL	16406.03	MEAN	44.9	MAX	436	MIN	.44	AC-FT	32540		

REDWOOD CREEK BASIN

11482125 PANTHER CREEK NEAR ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year.

WATER TEMPERATURES: Water year 1980.

SEDIMENT RECORDS: Water years 1979 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: December 1979 to September 1980.

INSTRUMENTATION.--Temperature recorder from December 1979 to September 1980.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
DEC 02...	1545	58	10.5	11	1.7	45	--	--	--	--	--
JAN 05...	1420	99	8.0	141	38	13	--	--	--	--	--
FEB 03...	1350	47	8.0	10	1.3	45	--	--	--	--	--
APR 13...	1200	169	9.0	233	106	17	20	23	32	44	62

11482130 COYOTE CREEK NEAR ORICK, CA

LOCATION.--Lat 41°07'03", long 123°54'34", unsurveyed, Humboldt County, Hydrologic Unit 18010102, on left bank 300 ft (91 m) downstream from small left-bank tributary, 1,900 ft (579 m) upstream from mouth, and 15 mi (24 km) southeast of Orick.

DRAINAGE AREA.--7.78 mi² (20.15 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 450 ft (137 m), from topographic map. Prior to October 9, 1980, at datum 2.00 ft (0.610 m) higher.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,900 ft³/s (53.8 m³/s) Dec. 19, 1981, gage height, 5.98 ft (1.823 m); minimum daily, 0.10 ft³/s (0.003 m³/s) Sept. 23-25, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 650 ft³/s (18.4 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 15	1100	1,550 43.9	5.78 1.762	Dec. 19	0845	*1,900 53.8	5.98 1.823
Dec. 6	0945	851 24.1	5.24 1.597	Dec. 26	1200	792 22.4	5.18 1.579
Dec. 15	0200	782 22.1	5.17 1.576				

Minimum daily, 0.18 ft³/s (0.005 m³/s) several days during September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.76	11	45	173	55	174	118	7.6	2.4	1.5	.45	.25
2	1.0	8.3	66	137	47	230	230	6.9	2.3	1.5	.45	.19
3	.98	6.4	49	137	42	223	242	6.4	2.3	1.5	.45	.18
4	.78	5.7	33	204	36	153	157	5.9	2.6	1.3	.51	.18
5	.71	4.6	75	128	29	98	138	5.5	2.5	1.3	.51	.19
6	2.1	4.0	326	80	24	66	132	5.1	2.4	1.2	.47	.18
7	7.7	3.5	134	54	21	51	108	4.9	2.3	1.2	.45	.18
8	8.4	3.0	70	42	18	40	98	4.9	2.2	1.1	.48	.18
9	15	2.8	88	41	16	34	104	4.8	2.1	1.1	.45	.19
10	41	3.4	75	43	14	31	243	4.5	1.8	1.1	.45	.19
11	13	31	46	37	12	32	366	4.4	1.8	.99	.45	.19
12	6.7	86	139	29	11	27	275	4.2	1.8	.99	.45	.19
13	4.7	99	264	22	239	24	338	4.1	1.8	.96	.45	.23
14	3.7	150	197	19	671	25	344	4.0	1.8	.90	.45	.19
15	3.1	409	263	16	538	25	201	3.8	1.7	.89	.44	.18
16	2.6	489	85	13	410	27	120	3.8	1.6	.82	.39	.18
17	2.3	284	45	20	302	25	80	3.6	1.5	.82	.33	.19
18	2.0	140	281	84	150	23	58	3.6	1.4	.75	.32	.52
19	2.0	101	980	66	220	22	45	3.5	1.4	.73	.32	.66
20	1.8	90	635	71	208	19	39	3.3	1.4	.56	.32	.52
21	1.7	216	402	53	342	17	35	3.2	1.3	.54	.32	.45
22	1.6	173	203	56	183	15	32	3.2	1.3	.53	.31	.39
23	1.5	180	127	221	111	14	26	3.1	1.2	.52	.26	.32
24	1.5	141	87	143	74	12	22	2.9	1.1	.52	.24	.32
25	1.4	100	80	125	53	12	17	2.8	1.1	.48	.19	.32
26	1.4	194	445	345	46	11	14	2.6	1.9	.45	.19	.32
27	6.5	131	299	207	40	16	12	2.6	2.3	.45	.19	.66
28	84	79	235	170	35	45	11	2.6	1.8	.45	.19	.59
29	59	52	456	115	---	55	9.3	2.5	1.8	.45	.22	.45
30	25	39	275	86	---	159	8.4	2.4	1.6	.45	.26	.45
31	15	---	207	68	---	268	---	2.4	---	.45	.26	---
TOTAL	318.93	3236.7	6712	3005	3947	1973	3622.7	125.1	54.5	26.50	11.22	9.23
MEAN	10.3	108	217	96.9	141	63.6	121	4.04	1.82	.85	.36	.31
MAX	84	489	980	345	671	268	366	7.6	2.6	1.5	.51	.66
MIN	.71	2.8	33	13	11	11	8.4	2.4	1.1	.45	.19	.18
AC-FT	633	6420	13310	5960	7830	3910	7190	248	108	53	22	18
CAL YR 1981	TOTAL	16311.18	MEAN	44.7	MAX	980	MIN	.10	AC-FT	32350		
WTR YR 1982	TOTAL	23041.88	MEAN	63.1	MAX	980	MIN	.18	AC-FT	45700		

REDWOOD CREEK BASIN

11482130 COYOTE CREEK NEAR ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1979 to current year.

WATER TEMPERATURES: December 1979 to September 1980.

SEDIMENT RECORDS: November 1979 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: December 1979 to September 1980.

INSTRUMENTATION.--Temperature recorder from December 1979 to September 1980.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
NOV 04...	1205	5.6	12.0	1	.02	--	--	--
DEC 02...	1320	60	10.5	25	4.1	--	--	--
JAN 05...	1305	112	7.5	47	14	--	--	--
FEB 10...	1230	14	--	5	.19	--	--	--
MAR 18...	1250	23	8.0	20	1.2	--	--	--
APR 13...	1515	355	9.0	983	942	16	21	29

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
NOV 04...	--	--	100	--	--	--	--	--
DEC 02...	--	--	93	--	--	--	--	--
JAN 05...	--	--	77	--	--	--	--	--
FEB 10...	--	--	88	--	--	--	--	--
MAR 18...	--	--	92	--	--	--	--	--
APR 13...	38	47	53	59	66	75	85	100

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, Hydrologic Unit 18010102, 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 mi² (8.96 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1974 to September 1982 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 50 ft (15 m), from topographic map.

REMARKS.--Records good except those for period of no gage height record, July 13 to Sept. 30, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--8 years, 10.5 ft³/s (0.30 m³/s), 7,610 acre-ft/yr (9.38 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 808 ft³/s (22.9 m³/s) Mar. 18, 1975, gage height, 4.32 ft (1.317 m); minimum daily, 0.10 ft³/s (0.003 m³/s) Dec. 19-26, 28, 1976, Feb. 19, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft³/s (2.83 m³/s) and maximum(*):

Date	Time	Discharge (ft ³ /s)	(m ³ /s)	Gage height (ft)	(m)	Date	Time	Discharge (ft ³ /s)	(m ³ /s)	Gage height (ft)	(m)
Nov. 16	1515	339	9.60	3.64	1.109	Feb. 14	1030	121	3.43	2.94	.896
Dec. 15	0315	148	4.19	3.15	0.960	Feb. 21	1230	140	3.96	3.02	.920
Dec. 19	1430	*486	13.8	3.89	1.186	Apr. 3	1130	105	2.97	2.87	.875
Dec. 26	1730	179	5.07	3.16	.963	Apr. 14	1445	105	2.97	2.87	.875

Minimum daily, 0.29 ft³/s (0.008 m³/s) Sept. 13, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.53	5.5	14	40	13	42	54	4.5	1.4	1.1	.58	.35
2	.87	4.6	18	43	11	53	61	4.3	1.4	1.1	.58	.34
3	.87	3.9	20	46	9.4	51	96	4.0	1.4	1.0	.58	.33
4	.62	3.5	17	53	8.0	42	72	3.6	1.7	.96	.57	.33
5	.53	3.1	16	44	6.7	30	55	3.4	1.4	.90	.57	.32
6	2.6	2.8	34	32	5.7	23	59	3.1	1.4	.90	.56	.32
7	4.3	2.6	38	24	5.1	19	60	2.9	1.3	.90	.55	.31
8	2.5	2.4	28	19	4.6	15	43	2.9	1.3	.90	.55	.31
9	4.5	2.4	26	15	4.1	12	31	2.9	1.2	.85	.55	.31
10	14	2.6	32	13	3.8	11	27	2.7	1.2	.82	.55	.31
11	5.8	5.8	26	11	3.4	13	46	2.6	1.2	.75	.56	.31
12	3.3	15	48	9.3	3.1	12	74	2.5	1.2	.76	.57	.30
13	2.4	13	78	8.0	14	10	68	2.4	1.2	.75	.56	.29
14	2.0	13	87	7.0	92	10	97	2.4	1.2	.74	.55	.29
15	1.7	29	103	6.3	75	9.3	71	2.3	1.1	.73	.54	.30
16	1.6	166	50	5.5	75	9.4	42	2.2	1.1	.70	.53	.30
17	1.5	127	29	6.1	53	9.1	29	2.2	1.0	.70	.52	.31
18	1.4	45	31	14	36	8.6	23	2.1	1.0	.69	.51	.40
19	1.4	25	258	20	50	7.7	19	2.0	1.0	.68	.50	.45
20	1.3	19	154	21	51	6.9	15	1.9	1.0	.67	.48	.43
21	1.3	61	84	18	117	6.3	12	1.9	1.0	.66	.46	.38
22	1.2	50	54	16	67	5.6	11	1.9	.93	.65	.45	.35
23	1.2	68	36	37	38	5.0	9.2	1.8	.90	.65	.44	.33
24	1.1	62	26	29	26	4.5	8.2	1.7	.90	.64	.43	.32
25	1.1	45	26	22	20	4.2	7.3	1.6	.90	.62	.41	.35
26	1.1	57	95	45	17	4.0	6.6	1.6	1.4	.61	.41	.37
27	2.8	53	102	43	14	5.3	6.0	1.6	1.4	.60	.40	.40
28	11	31	60	32	12	22	5.5	1.5	1.2	.60	.39	.45
29	17	21	88	24	---	30	5.2	1.5	1.2	.60	.38	.45
30	9.8	16	80	20	---	54	4.8	1.5	1.1	.59	.37	.45
31	7.0	---	49	16	---	88	---	1.4	---	.58	.36	---
TOTAL	108.32	955.2	1807	739.2	834.9	622.9	1117.8	74.9	35.63	23.40	15.46	10.46
MEAN	3.49	31.8	58.3	23.8	29.8	20.1	37.3	2.42	1.19	.75	.50	.35
MAX	17	166	258	53	117	88	97	4.5	1.7	1.1	.58	.45
MIN	.53	2.4	14	5.5	3.1	4.0	4.8	1.4	.90	.58	.36	.29
AC-FT	215	1890	3580	1470	1660	1240	2220	149	71	46	31	21

CAL YR 1981	TOTAL	5125.43	MEAN 14.0	MAX 258	MIN .25	AC-FT 10170
WTH YR 1982	TOTAL	6345.17	MEAN 17.4	MAX 258	MIN .29	AC-FT 12590

REDWOOD CREEK BASIN

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 1974-77.

SEDIMENT RECORDS: Water years 1974-76, 1978 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.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, DIS- SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 23...	1235	69	11.5	19	3.5	76
DEC 28...	1240	57	10.0	23	3.5	87
APR 30...	1100	4.8	9.0	5	.06	60

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, Hydrologic Unit 18010102, 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 mi² (720 km²).

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) National Geodetic Vertical Datum of 1929. Sept. 10, 1911, to Aug. 9, 1913, nonrecording gage at different datum.

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

AVERAGE DISCHARGE.--31 years, 1,062 ft³/s (30.08 m³/s), 768,000 acre-ft/yr (947 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50,500 ft³/s (1,430 m³/s) Dec. 22, 1964, gage height, 24.0 ft (7.32 m), from outside high-water marks; minimum daily, 9.3 ft³/s (0.26 m³/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 ft³/s (1,420 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 9,000 ft³/s (255 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 15	Unknown	15,000 425	Unknown	Feb. 16	0115	12,600 357	14.52 4.426
Dec. 20	0115	*26,500 750	18.59 5.666	Apr. 14	0400	11,300 320	14.03 4.276
Dec. 26	2130	11,600 329	14.16 4.316				

Minimum daily, 12 ft³/s (0.34 m³/s) Sept. 15-17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	426	1430	4310	1790	3660	3800	970	193	116	39	17
2	50	316	1670	4040	1560	4330	3890	890	192	108	38	16
3	56	251	1760	3810	1390	4300	5800	815	185	99	37	16
4	48	205	1450	3990	1250	3990	5010	756	189	100	36	15
5	42	171	1420	3450	1110	3190	4280	705	198	93	35	14
6	114	147	3660	2800	995	2650	4350	664	182	88	34	13
7	254	130	3690	2340	895	2240	4150	644	173	83	32	13
8	211	118	2560	2030	820	1930	3370	607	164	80	32	13
9	191	108	2430	1810	749	1720	2900	565	157	77	32	13
10	724	112	2940	1650	688	1590	3080	521	150	73	32	13
11	483	189	2270	1520	632	1680	5950	491	146	70	32	13
12	229	1060	2640	1350	581	1480	7230	463	146	67	31	13
13	134	1430	4490	1210	1250	1290	7370	442	145	65	30	13
14	95	2400	6130	1100	7110	1190	10500	428	142	62	29	13
15	75	3500	6560	1050	6670	1140	7040	408	137	60	28	12
16	61	9900	4820	1000	9900	1110	4800	390	130	58	27	12
17	52	7800	3980	1400	6270	1040	3780	375	120	56	24	12
18	46	3690	5250	2100	4400	970	3130	363	117	54	23	13
19	41	2400	17700	1930	5250	1030	2700	344	113	52	23	14
20	36	1920	17400	1930	4470	936	2410	328	111	50	23	14
21	32	3170	8410	1710	8300	853	2230	312	108	49	23	14
22	29	3500	5420	1580	5720	786	2090	304	105	47	22	14
23	26	4230	4320	3020	4020	726	2000	294	100	45	21	14
24	24	4150	3480	2880	3200	675	1880	280	97	44	19	14
25	23	3260	3110	2510	2650	634	1730	261	95	43	19	14
26	23	4050	6110	4110	2300	608	1570	246	116	42	18	14
27	36	4110	7430	3760	2010	657	1400	237	157	43	17	14
28	802	2810	5120	3210	1700	1460	1250	226	145	42	16	14
29	1610	2120	6670	2710	---	1850	1150	214	133	42	16	14
30	950	1650	5830	2330	---	2710	1050	204	123	42	17	14
31	620	---	4430	2040	---	5660	---	197	---	40	17	---
TOTAL	7169	69323	154580	74680	87680	58085	111890	13944	4269	1990	822	412
MEAN	231	2311	4986	2409	3131	1874	3730	450	142	64.2	26.5	13.7
MAX	1610	9900	17700	4310	9900	5660	10500	970	198	116	39	17
MIN	23	108	1420	1000	581	608	1050	197	95	40	16	12
AC-FT	14220	137500	306600	148100	173900	115200	221900	27660	8470	3950	1630	817
CAL YR 1981 TOTAL	446061.1			MEAN 1222	MAX 17700	MIN	6.9	AC-FT 884800				
WTR YR 1982 TOTAL	584844.0			MEAN 1602	MAX 17700	MIN	12	AC-FT 1160000				

REDWOOD CREEK BASIN

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, 1973-81.

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 September 1981, October 1981 to current year (storm season only).

SEDIMENT RECORDS: March 1970 to September 1981, October 1981 to current year (storm season only).

INSTRUMENTATION.--Temperature recorder October 1965 to September 1979.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 24.0°C July 10, 1976; minimum recorded, 1.0°C Dec. 14, 1967.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 9,610 mg/L Mar. 18, 1975; minimum daily mean, 1 mg/L on many days in 1970, 1973-74, 1976, 1978-81.

SEDIMENT DISCHARGE: Maximum daily, 1,070,000 tons (971,000 metric tons) Mar. 18, 1975; minimum daily, 0.03 ton (0.03 metric ton) Oct. 7, 8, 11, 12, 1970, Oct. 9, 10, 1979, and several days during 1981.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum observed, 16.0°C Oct. 15, Dec. 19; minimum observed, 5.0°C Feb. 11.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,260 mg/L Dec. 19; minimum daily mean, 1 mg/L on many days during the year.

SEDIMENT DISCHARGE: Maximum daily, 174,000 tons (158,000 metric tons) Dec. 19; minimum daily, 0.06 ton (0.05 metric ton) Oct. 24.

TEMPERATURE (DEG. C) OF WATER, OCTOBER 1981 TO APRIL 1982
ONCE-DAILY

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

11482500 REDWOOD CREEK AT ORICK, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), OCTOBER 1981 TO APRIL 1982

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	52	1	.14	426	5	5.8	1430	77	297
2	50	2	.27	316	3	2.6	1670	107	482
3	56	1	.15	251	4	2.7	1760	128	608
4	48	1	.13	205	2	1.1	1450	98	384
5	42	2	.23	171	10	4.6	1420	95	364
6	114	52	29	147	1	.40	3660	869	11300
7	254	65	45	130	6	2.1	3690	430	4280
8	211	15	8.5	118	3	.96	2560	157	1090
9	191	13	6.7	108	1	.29	2430	200	1440
10	724	171	384	112	2	.60	2940	230	1830
11	483	40	52	189	78	40	2270	123	754
12	229	4	2.5	1060	117	331	2640	212	1940
13	134	2	.72	1430	182	734	4490	644	9250
14	95	1	.26	2400	455	3180	6130	761	13100
15	75	1	.20	3500	900	8510	6560	805	14800
16	61	1	.16	9900	2000	53500	4820	330	4290
17	52	1	.14	7800	1000	21100	3980	190	2040
18	46	1	.12	3690	470	4680	5250	837	14300
19	41	1	.11	2400	265	1720	17700	3260	174000
20	36	1	.10	1920	175	907	17400	2850	134000
21	32	1	.09	3170	561	5660	8410	1800	40900
22	29	4	.31	3500	380	3590	5420	920	13500
23	26	1	.07	4230	522	6010	4320	530	6180
24	24	1	.06	4150	561	6420	3480	342	3210
25	23	2	.12	3260	265	2330	3110	253	2120
26	23	2	.12	4050	503	6040	6110	1720	43100
27	36	25	2.4	4110	358	3970	7430	1700	37300
28	802	256	609	2810	170	1290	5120	830	11500
29	1610	372	1720	2120	130	744	6670	1140	20500
30	950	70	180	1650	93	414	5830	840	13200
31	620	20	33	---	---	---	4430	520	6220
TOTAL	7169	---	3075.60	69323	---	131191.2	154580	---	588279

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4310	445	5180	1790	75	362	3660	916	10900
2	4040	415	4530	1560	60	253	4330	700	8180
3	3810	340	3500	1390	53	199	4300	440	5110
4	3990	335	3610	1250	49	165	3990	302	3250
5	3450	255	2380	1110	40	120	3190	194	1670
6	2800	209	1580	995	33	89	2650	153	1090
7	2340	177	1120	895	30	72	2240	116	702
8	2030	147	806	820	32	71	1930	89	464
9	1810	151	738	749	31	63	1720	73	339
10	1650	142	633	688	26	48	1590	69	296
11	1520	94	386	632	31	53	1680	73	331
12	1350	69	252	581	27	42	1480	59	236
13	1210	62	203	1250	182	1150	1290	48	167
14	1100	62	184	7110	2310	47900	1190	42	135
15	1050	45	128	6670	1670	33800	1140	37	114
16	1000	43	116	9900	2380	67000	1110	35	105
17	1400	50	189	6270	980	16600	1040	36	101
18	2100	290	1640	4400	475	5640	970	32	84
19	1930	130	677	5250	850	12000	1030	48	133
20	1930	105	547	4470	600	7240	936	34	86
21	1710	84	388	8300	1370	30700	853	25	58
22	1580	70	299	5720	610	9420	786	20	42
23	3020	643	5600	4020	374	4060	726	18	35
24	2880	268	2080	3200	250	2160	675	16	29
25	2510	160	1080	2650	190	1360	634	15	26
26	4110	764	9310	2300	146	907	608	14	23
27	3760	398	4040	2010	115	624	657	18	32
28	3210	240	2080	1700	93	427	1460	139	552
29	2710	159	1160	---	---	---	1850	132	659
30	2330	117	736	---	---	---	2710	326	2730
31	2040	93	512	---	---	---	5660	1060	16800
TOTAL	74680	---	55684	87680	---	242525	58085	---	54479

11482500 REDWOOD CREEK AT ORICK, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), OCTOBER 1981 TO APRIL 1982

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3800	250	2570						
2	3890	358	4050						
3	5800	573	9030						
4	5010	340	4600						
5	4280	233	2690						
6	4350	230	2700						
7	4150	185	2070						
8	3370	153	1390						
9	2900	138	1080						
10	3080	258	2410						
11	5950	1740	28400						
12	7230	1350	28500						
13	7370	1270	27800						
14	10500	1780	50700						
15	7040	775	14700						
16	4800	430	5570						
17	3780	293	2990						
18	3130	242	2050						
19	2700	250	1820						
20	2410	265	1720						
21	2230	225	1350						
22	2090	151	852						
23	2000	113	610						
24	1880	99	503						
25	1730	92	430						
26	1570	77	326						
27	1400	65	246						
28	1250	58	196						
29	1150	54	168						
30	1050	44	125						
31	---	---	---						
TOTAL	111890	---	201646						
PERIOD	584844.0		1276879						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, OCTOBER 1981 TO APRIL 1982

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1981	7169.00	3075.60	3090	6170
NOVEMBER ...	69323.00	131191.15	46700	178000
DECEMBER ...	154580.00	588279.00	101000	689000
JANUARY 1982	74680.00	55684.00	52700	108000
FEBRUARY ...	87680.00	242525.00	58400	301000
MARCH	58085.00	54479.00	39300	93800
APRIL	111890.00	201646.00	76700	278000
TOTAL	563407.00	1276879.75	377890	1653970

11510700 KLAMATH RIVER BELOW JOHN C. BOYLE POWERPLANT, NEAR KENO, OR

LOCATION.--Lat 42°05'05", long 122°04'20", in SE4SE4 sec.14, T.40 S., R.6 E., Klamath County, Hydrologic Unit 18010206, 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 mi² (10,570 km²), 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) National Geodetic Vertical Datum of 1929 (levels by Pacific Power & Light Co.).

REMARKS.--Records excellent. Flow regulated by Upper Klamath Lake (station 11507001). Large diurnal fluctuation caused by John C. Boyle powerplant and 2 powerplants below Upper Klamath Lake. Diversions for irrigation above station.

AVERAGE DISCHARGE.--23 years, 1,829 ft³/s (51.80 m³/s) 1,325,000 acre-ft/yr (1.63 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,000 ft³/s (312 m³/s) Mar. 5, 1972, gage height, 9.33 ft (2.844 m); minimum, 283 ft³/s (8.01 m³/s) Feb. 17, 1968; minimum daily, 317 ft³/s (8.98 m³/s) July 25, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,600 ft³/s (300 m³/s) Feb. 23, gage height 9.21 ft (2.807 m); minimum, 336 ft³/s (9.52 m³/s) several days during November and December; minimum daily, 360 ft³/s (10.2 m³/s) June 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	801	710	931	5460	2670	8250	3490	2690	817	2350	709	1220
2	807	749	1140	5340	2670	8370	4110	2680	593	2620	706	1400
3	712	703	1160	5150	2680	8500	4460	2690	365	2860	738	1140
4	717	708	1140	5020	2670	8700	4440	2690	798	2990	722	1170
5	800	708	1100	5080	2670	8840	4540	2680	824	2900	702	1140
6	814	706	1110	4880	2670	8330	4560	2650	364	2870	947	1130
7	802	702	1180	4240	2670	8010	4480	2710	682	2210	959	1180
8	808	661	1360	3410	2670	8070	4330	2740	813	2470	914	908
9	805	707	1210	3220	2670	8120	4320	2750	361	2130	821	768
10	718	754	1190	3050	2670	7910	4330	2750	811	1570	912	818
11	711	701	799	3100	2670	7810	4460	2750	364	1570	959	726
12	1010	709	1430	2970	2640	8050	5780	2750	905	1200	957	721
13	798	757	1270	2820	2690	7500	6620	2750	362	904	956	818
14	797	661	765	2640	2890	7410	6660	2640	774	720	917	817
15	801	671	1450	2770	3880	6930	6660	2790	363	721	871	855
16	839	1100	1480	2630	4860	6280	6660	2130	360	853	969	955
17	702	2020	2210	2560	6830	5100	6630	1700	815	858	959	999
18	712	2490	2450	2620	7170	4300	6560	2260	362	839	1010	863
19	843	1380	3000	2720	7350	4470	6610	2190	778	606	980	1080
20	798	697	4650	2710	7990	4680	6210	1990	364	361	1140	1170
21	799	702	5470	2790	8250	4650	5480	1690	686	724	867	1190
22	800	702	5380	2760	8950	4530	4990	1700	864	715	867	1440
23	804	840	4340	2750	10000	4170	4360	1740	364	720	958	1480
24	709	931	4040	2750	9390	3640	3830	2010	729	711	1050	1550
25	712	1050	4030	2720	9200	3580	3830	2040	364	711	1100	1920
26	802	1370	4460	2750	8870	3530	3500	1440	730	713	1090	1910
27	797	748	5090	2670	8800	3390	2900	1000	367	717	1100	1900
28	803	741	5790	2660	8910	3390	2880	914	732	750	1050	1950
29	804	655	5070	2660	---	3410	2740	917	1130	714	1050	1770
30	795	876	5080	2670	---	3410	2680	914	1420	702	1140	1530
31	750	---	5560	2670	---	3410	---	919	---	735	1140	---
TOTAL	24370	26909	85335	102240	148050	186740	143100	66264	19261	41514	29260	36518
MEAN	786	897	2753	3298	5288	6024	4770	2138	642	1339	944	1217
MAX	1010	2490	5790	5460	10000	8840	6660	2790	1420	2990	1140	1950
MIN	702	655	765	2560	2640	3390	2680	914	360	361	702	721
AC-FT	48340	53370	169300	202800	293700	370400	283800	131400	38200	82340	58040	72430
CAL YR 1981 TOTAL	420769			1153	MAX 5790	MIN 344	AC-FT 834600					
WTH YR 1982 TOTAL	909561			2492	MAX 10000	MIN 360	AC-FT 1804000					

KLAMATH RIVER BASIN

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, Hydrologic Unit 18010206, 12.7 mi (20.4 km) northeast of Hornbrook. DRAINAGE AREA, 4,300 mi² (11,137 km²). PERIOD OF RECORD, October 1967 to current year. GAGE, pressure device and telemark read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Pacific Power and Light Co.). Reservoir is formed by gravity-type dam completed in 1922. Normal capacity at elevation 2,607.5 ft (794.77 m) is 46,867 acre-ft (57.8 hm³). Records, including extremes, represent contents at 0800 hours. Records of contents furnished by Pacific Power and Light Co.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 46,818 acre-ft (57.7 hm³) June 24, 1969, elevation, 2,607.45 ft (794.751 m); minimum, 30,360 acre-ft (37.4 hm³) Aug. 19, 1971, elevation, 2,589.24 ft (789.200 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 46,471 acre-ft (57.3 hm³) July 3, elevation, 2,607.10 ft (794.644 m); minimum 33,155 acre-ft (40.9 hm³) Sept. 21, elevation, 2,592.60 ft (790.224 m).

11516510 IRON GATE RESERVOIR NEAR HORN BROOK.--Lat 41°55'58", long 122°26'06", in SW¼SW¼ sec.9, T.47 N., R.5 W., Siskiyou County, Hydrologic Unit 18010206, 6.6 mi (10.6 km) northeast of Hornbrook. DRAINAGE AREA, 4,573 mi² (11,844 km²). PERIOD OF RECORD, October 1967 to current year. GAGE, pressure device and telemark read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Pacific Power and Light Co.). Reservoir is formed by earth- and rockfill dam completed in 1962. Capacity is 58,794 acre-ft (72.5 hm³) at elevation 2,328.0 ft (709.57 m), crest of spillway. Records, including extremes, represent contents at 0800 hours. Records of contents furnished by Pacific Power and Light Co.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 61,776 acre-ft (76.2 hm³) Mar. 3, 1972, elevation, 2,330.96 ft (710.477 m); minimum, 50,103 acre-ft (61.8 hm³) Dec. 9, 1968, elevation, 2,318.40 ft (706.648 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 61,643 acre-ft (76.0 hm³) Feb. 21, elevation, 2,330.83 ft (710.437 m); minimum, 55,346 acre-ft (68.2 hm³) Oct. 1, elevation, 2,324.37 ft (708.468 m).

MONTHEND ELEVATION NGVD AND CONTENTS AT 0800, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
11511400 COPCO LAKE				11516510 IRON GATE RESERVOIR		
Sept. 30.....	2603.06	42564	--	2324.25	55235	--
Oct. 31.....	2603.60	43078	+514	2326.09	56953	+1718
Nov. 30.....	2601.15	40772	-2306	2325.69	56576	-377
Dec. 31.....	2601.67	41257	+485	2329.45	60238	+3662
CAL YR 1981.....	--	--	+1288	--	--	+3190
Jan. 31.....	2602.91	42422	+1165	2328.55	59338	-900
Feb. 28.....	2601.12	40744	-1678	2330.07	60866	+1528
Mar. 31.....	2601.49	41089	+345	2328.90	59685	-1181
Apr. 30.....	2602.54	42074	+985	2328.69	59477	-208
May 31.....	2605.25	44662	+2588	2327.49	58298	-1179
June 30.....	2605.76	45157	+495	2327.33	58143	-155
July 31.....	2606.70	46077	+920	2327.02	57841	-302
Aug. 31.....	2604.68	44112	-1965	2326.80	57631	-210
Sept. 30.....	2603.22	42716	-1396	2326.24	57096	-535
WTR YR 1982.....	--	--	+152	--	--	+1861

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, Hydrologic Unit 18010206, 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 mi² (11,990 km²), approximately (not including Lost River and Lower Klamath Lake basins).

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,162.44 ft (659.112 m) National Geodetic Vertical Datum of 1929 (levels by Pacific Power and Light Co.).

REMARKS.--Records excellent. Flow regulated by Upper Klamath Lake, capacity, 523,700 acre-ft (646 hm³), Iron Gate Reservoir (station 11516510), other smaller reservoirs, and diversions above station.

AVERAGE DISCHARGE.--22 years, 2,188 ft³/s (61.96 m³/s), 1,585,000 acre-ft/yr (1.95 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,400 ft³/s (833 m³/s) Dec. 22, 1964, gage height, 13.63 ft (4.154 m), from rating curve extended above 15,000 ft³/s (425 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 647 ft³/s (18.3 m³/s) Oct. 30, Nov. 6, 1960, Sept. 24, Oct. 1, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,700 ft³/s (530 m³/s) Feb. 21, gage height, 11.60 ft (3.536 m); minimum daily, 707 ft³/s (20.0 m³/s) July 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	847	851	1310	6590	3080	10100	4210	3100	936	1770	1000	1330
2	848	850	1310	6440	3070	9710	4730	3080	754	1890	1000	1330
3	847	849	1310	6110	3020	9670	5440	3160	752	3120	1020	1330
4	847	848	1310	5930	2920	9710	5300	3090	752	3490	1040	1330
5	847	850	1310	5660	2870	9830	5300	3200	748	3570	1040	1330
6	850	848	1540	5560	2870	9470	5380	3030	749	3380	1040	1330
7	855	851	1830	5090	2880	9020	5370	3030	891	2870	1040	1340
8	852	850	1810	4060	2870	8660	5180	3180	881	2380	1040	1340
9	854	850	1820	3580	2950	8820	5060	3180	718	2220	1040	1340
10	858	850	1820	3480	3020	8900	5280	3030	715	1800	1040	1340
11	854	850	1810	3340	3010	8720	6000	3020	714	1770	1040	1340
12	852	855	1810	3190	2940	8780	7120	2910	721	1770	1040	1340
13	852	856	1820	3160	2940	8460	9380	2880	814	1460	1040	1340
14	852	861	1820	3160	4950	8230	10000	2630	899	714	1040	1340
15	852	1190	1860	3150	5990	8070	8930	2650	847	711	1040	1340
16	856	1960	1820	3140	8210	7100	9310	2620	724	709	1030	1350
17	846	2260	1820	3140	8520	6290	8960	2650	728	713	1040	1350
18	847	2970	2700	3000	8830	5080	8310	2580	726	713	1040	1370
19	847	2340	6960	2910	9540	4910	7930	2470	733	714	1050	1420
20	849	1680	10400	2770	10100	5660	7810	2400	744	713	1040	1420
21	851	1320	8660	3090	16100	5510	6480	2210	738	711	1040	1380
22	851	1590	7140	3090	13600	5410	5800	2190	733	711	1040	1330
23	852	1270	5590	3090	12600	5190	5470	1910	736	710	1040	1330
24	852	1510	4420	3100	11800	4610	4520	1950	739	710	1040	1320
25	852	1730	4550	3120	10600	4040	4520	2340	757	711	1040	1320
26	853	1660	5950	3400	10800	4180	4460	1790	731	709	1040	1320
27	854	1460	7280	3250	9720	4070	3260	1410	724	711	1040	1330
28	859	1460	7020	3180	9950	4060	2990	1020	728	710	1040	1320
29	857	1450	7210	3130	---	4050	3270	1020	1050	709	1050	1320
30	855	1400	6260	3110	---	4070	3350	1030	1630	707	1050	1440
31	851	---	6660	3090	---	4230	---	1030	---	728	1080	---
TOTAL	26399	39169	118930	118110	189750	214610	179120	75790	24112	44304	32200	40360
MEAN	852	1306	3836	3810	6777	6923	5971	2445	804	1429	1039	1345
MAX	859	2970	10400	6590	16100	10100	10000	3200	1630	3570	1080	1440
MIN	846	848	1310	2770	2870	4040	2990	1020	714	707	1000	1320
AC-FT	52360	77690	235900	234300	376400	425700	355300	150300	47830	87880	63870	80050

CAL YR 1981	TOTAL	509523	MEAN	1396	MAX	10400	MIN	723	AC-FT	1011000
WTR YR 1982	TOTAL	1102854	MEAN	3022	MAX	16100	MIN	707	AC-FT	2188000

KLAMATH RIVER BASIN

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, Hydrologic Unit 18010207, on right bank 0.5 mi (0.8 km) upstream from mouth, and 7 mi (11 km) north of Yreka.

DRAINAGE AREA.--793 mi² (2,054 km²).

PERIOD OF RECORD.--October 1933 to December 1941, December 1944 to current year.

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 2,000 ft (610 m), from topographic map. Prior to Nov. 2, 1933, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow partly regulated by Lake Dwinnell beginning in 1928; storage limited to 50,000 acre-ft (61.6 hm³). Many diversions above station for irrigation.

AVERAGE DISCHARGE.--45 years, 187 ft³/s (5.296 m³/s), 135,500 acre-ft/yr (167 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,500 ft³/s (609 m³/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 ft³/s (116 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 1.5 ft³/s (0.042 m³/s) Aug 24, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,460 ft³/s (155 m³/s) Dec. 20, gage height, 9.28 ft (2.828 m); minimum daily, 28 ft³/s (0.793 m³/s) Aug. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	154	225	613	281	882	448	187	96	272	45	52
2	107	157	226	524	276	1570	510	188	92	253	47	53
3	107	158	226	476	275	1540	492	181	90	256	42	79
4	107	165	223	460	269	1120	466	170	94	246	51	77
5	107	163	222	449	259	776	434	165	108	227	67	75
6	105	160	293	399	253	621	381	157	118	221	67	63
7	121	160	332	350	256	549	362	138	117	230	43	76
8	135	157	281	328	256	515	345	134	110	249	41	61
9	132	160	259	319	257	478	332	144	95	245	49	59
10	139	160	262	313	255	497	343	140	89	209	50	73
11	145	159	251	312	249	526	444	138	89	188	52	63
12	145	166	243	307	244	487	592	125	93	171	52	75
13	142	167	240	296	270	469	750	122	101	169	45	81
14	139	205	258	290	561	523	673	117	105	160	46	71
15	142	387	311	285	610	656	534	120	91	115	46	69
16	142	750	301	283	1000	690	479	112	93	105	52	79
17	142	804	266	287	783	519	402	118	85	105	43	87
18	142	812	311	294	639	487	311	150	85	103	43	137
19	142	484	1840	289	703	487	313	127	104	89	43	137
20	145	323	3620	288	780	465	299	132	314	76	57	148
21	145	316	1890	285	2440	435	278	122	215	70	52	137
22	142	323	1140	276	2120	423	275	105	184	65	46	125
23	142	310	792	273	1490	415	283	101	158	53	46	121
24	142	350	607	270	1080	406	277	100	138	54	48	122
25	142	314	492	274	865	381	252	92	147	46	42	130
26	145	283	483	320	768	373	226	94	122	45	33	127
27	145	250	561	321	761	368	207	93	120	42	28	122
28	153	240	471	309	777	360	204	102	130	45	30	126
29	153	226	521	298	---	382	184	101	354	35	40	129
30	151	217	553	290	---	377	190	93	337	45	63	129
31	149	---	539	287	---	419	---	90	---	42	58	---
TOTAL	4192	8680	18239	10365	18777	18196	11286	3966	4074	4231	1467	2883
MEAN	135	289	588	334	671	587	376	128	136	136	47.3	96.1
MAX	153	812	3620	613	2440	1570	750	188	354	272	67	148
MIN	97	154	222	270	244	360	184	90	85	35	28	52
AC-FT	8310	17220	36180	20560	37240	36090	22390	7870	8080	8390	2910	5720

CAL YR 1981 TOTAL 57657.5 MEAN 158 MAX 3620 MIN 1.5 AC-FT 114400
WTR YR 1982 TOTAL 106356.0 MEAN 291 MAX 3620 MIN 28 AC-FT 211000

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, Hydrologic Unit 18010208, 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 mi² (1,691 km²).

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) National Geodetic Vertical Datum of 1929 (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 km²) above station.

AVERAGE DISCHARGE.--41 years, 663 ft³/s (18.78 m³/s), 480,300 acre-ft/yr (592 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,600 ft³/s (1,550 m³/s) Dec. 22, 1964, gage height, 25.34 ft (7.724 m) from floodmarks, from rating curve extended above 15,000 ft³/s (425 m³/s) on basis of slope-area measurement at 21.40 ft (6.523 m), site and datum then in use; minimum daily, 5.0 ft³/s (0.15 m³/s) on several days during August 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,700 ft³/s (76.6 m³/s) revised, and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 17	Unknown	9,020 255	13.85 4.221	Feb. 16	1045	9,260 262	14.30 4.359
Nov. 22	0015	3,640 103	10.22 3.115	Feb. 21	1630	12,100 343	15.62 4.761
Dec. 7	0100	3,850 109	10.40 3.170	Mar. 1	2230	4,530 128	11.21 3.417
Dec. 20	0400	*25,500 722	20.52 6.254				

Minimum daily, 13 ft³/s (0.37 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	61	738	2330	867	3310	1060	1550	1270	710	105	47
2	14	61	793	2020	841	3310	1080	1610	1200	721	100	46
3	15	61	850	1810	835	2530	1010	1640	1060	620	94	45
4	15	60	793	1700	826	2230	1030	1640	992	565	95	46
5	15	60	859	1610	771	2030	965	1530	945	535	94	47
6	16	60	2210	1420	748	1880	950	1480	863	502	91	45
7	18	59	3090	1260	743	1770	915	1620	807	471	89	45
8	16	59	1940	1200	730	1680	892	1650	737	450	89	45
9	16	59	1580	1150	714	1570	889	1490	716	413	88	48
10	17	60	1590	1100	701	1570	947	1310	752	358	83	48
11	17	64	1350	1080	677	1650	1820	1200	884	326	75	48
12	17	73	1250	1030	656	1570	2230	1120	959	303	68	48
13	17	91	1370	968	962	1470	1880	1170	963	292	65	48
14	17	165	2450	927	4770	1440	1970	1290	997	267	63	49
15	17	330	3320	897	5360	1410	1670	1390	1040	251	60	49
16	17	1350	2770	876	8050	1350	1440	1380	1110	237	60	49
17	17	6420	2050	882	5610	1300	1310	1480	1190	217	60	55
18	16	3170	2620	947	4030	1240	1250	1550	1270	198	59	55
19	16	1840	11800	912	5580	1190	1190	1360	1350	181	58	57
20	16	1400	20500	889	5760	1120	1160	1330	1270	166	56	58
21	16	2460	9080	847	10500	1080	1140	1450	1150	156	56	62
22	16	3020	5240	793	7780	1040	1200	1680	1050	143	53	66
23	16	2310	3670	780	4970	1010	1340	1770	956	140	53	68
24	16	2140	2170	810	3780	997	1520	1830	925	139	53	71
25	19	1480	2420	809	3130	966	1580	2040	900	142	52	74
26	27	1420	2380	1050	2690	944	1580	2240	961	146	51	77
27	26	1230	2470	1160	2370	939	1560	1880	938	147	50	77
28	30	1050	2390	1050	2120	924	1610	1530	899	141	48	77
29	47	907	2330	982	---	955	1640	1350	802	132	48	78
30	63	799	2240	913	---	973	1560	1260	780	120	47	78
31	61	---	2310	895	---	944	---	1250	---	109	47	---
TOTAL	659	32319	100623	35097	86571	46392	40388	47070	29736	9298	2110	1706
MEAN	21.3	1077	3246	1132	3092	1497	1346	1518	991	300	68.1	56.9
MAX	63	6420	20500	2330	10500	3310	2230	2240	1350	721	105	78
MIN	13	59	738	780	656	924	889	1120	716	109	47	45
AC-FT	1310	64100	199600	69610	171700	92020	80110	93360	58980	18440	4190	3380
CAL YR 1981 TOTAL	223786.4			MEAN 613	MAX 20500	MIN 5.0	AC-FT 443900					
WTR YR 1982 TOTAL	431969.0			MEAN 1183	MAX 20500	MIN 13	AC-FT 856800					

KLAMATH RIVER BASIN

11520500 KLAMATH RIVER NEAR SEIAD VALLEY, CA

LOCATIÓN.--Lat 41°51'14", long 123°13'52", in SW¼SW¼ sec.3, T.46 N., R.12 W., Siskiyou County, Hydrologic Unit 18010206, 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 mi² (17,975 km²), approximately (not including Lost River or Lower Klamath Lake basins).

PERIOD OF RECORD.--October 1912 to September 1925, July 1951 to current year. Monthly discharges only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Altitude of gage is 1,320 ft (402 m) from river-profile map. November 1912 to June 1925, nonrecording gage at site 3.5 mi (5.6 km) upstream at different datum.

REMARKS.--Records good. Flow regulated considerably by reservoirs and powerplants above station. Large diversions above station for irrigation.

AVERAGE DISCHARGE.--44 years, 4,073 ft³/s (115.3 m³/s), 2,951,000 acre-ft/yr (3.64 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 165,000 ft³/s (4,670 m³/s) Dec. 23, 1964, gage height, 33.75 ft (10.287 m) from floodmarks, from rating curve extended above 49,000 ft³/s (1,390 m³/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 ft³/s (9.06 m³/s) Nov. 25, 1917.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 71,500 ft³/s (2,020 m³/s) Dec. 20, gage height, 22.8 ft (6.95 m) from floodmarks; minimum daily, 1,030 ft³/s (29.2 m³/s) Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1040	1220	3180	12900	5300	18400	6880	6830	3810	4650	1190	1400
2	1030	1220	3290	11900	5220	18900	7080	6750	3450	4720	1370	1540
3	1040	1220	3430	11100	5200	17600	8260	6810	3280	6900	1380	1550
4	1040	1210	3320	10600	5070	16400	8090	6820	3080	7150	1390	1570
5	1040	1210	3480	10100	4860	15600	7950	6660	2990	7200	1400	1560
6	1060	1200	7170	9540	4770	14900	7900	6400	2850	7000	1420	1560
7	1190	1180	9040	8820	4750	14100	7820	6600	3020	4450	1410	1560
8	1150	1180	6510	7640	4710	13200	7690	6790	2810	3750	1400	1560
9	1160	1180	5790	6660	4670	13100	7450	6590	2550	3490	1380	1560
10	1230	1180	5780	6320	4750	13100	7870	6150	2590	2990	1380	1550
11	1230	1200	5000	6120	4690	13300	10500	5900	2780	2740	1380	1550
12	1180	1510	4610	5850	4610	13100	12400	5610	2950	2670	1370	1550
13	1150	1680	5100	5610	5180	12800	14100	5620	3080	2640	1340	1560
14	1130	2470	7700	5510	15700	12300	15700	5540	3290	1930	1330	1570
15	1120	4430	9990	5450	18500	12400	14000	5620	3200	1530	1330	1560
16	1120	11200	8200	5370	27300	11500	13400	5700	2700	1440	1330	1560
17	1120	14900	7150	5380	23600	10300	13000	5810	2390	1440	1330	1570
18	1110	9570	9100	5500	19500	8780	12200	5620	2450	1400	1310	1650
19	1110	6710	35500	5280	22900	8070	11500	5400	2600	1360	1310	1780
20	1100	5080	61500	5010	23600	8330	11500	5190	2810	1310	1310	1780
21	1100	6380	37500	5140	42400	8340	10500	5090	3010	1270	1300	1770
22	1100	8150	19700	5160	35400	8010	9710	5450	3190	1250	1290	1720
23	1100	6510	15800	5120	27000	7740	9900	5190	3090	1230	1290	1670
24	1100	6530	12300	5220	22900	7340	9000	5400	3020	1210	1290	1670
25	1100	5830	10600	5270	19800	6510	8780	5820	3030	1210	1290	1670
26	1100	5210	11400	6160	18600	6430	8620	5500	3050	1210	1280	1670
27	1110	4440	14700	6430	17000	6470	7710	5000	2980	1190	1280	1670
28	1320	3900	12700	5960	16100	6410	6850	4310	3000	1170	1280	1690
29	1310	3580	13900	5700	---	6390	6940	4050	3800	1150	1280	1670
30	1250	3370	14000	5510	---	6400	7120	3890	4500	1130	1300	1670
31	1230	---	12400	5400	---	6850	---	3850	---	1120	1310	---
TOTAL	35170	124650	379840	211730	414080	343070	290420	175960	91350	83900	41250	48410
MEAN	1135	4155	12250	6830	14790	11070	9681	5676	3045	2706	1331	1614
MAX	1320	14900	61500	12900	42400	18900	15700	6830	4500	7200	1420	1780
MIN	1030	1180	3180	5010	4610	6390	6850	3850	2390	1120	1190	1400
AC-FT	69760	247200	753400	420000	821300	680500	576000	349000	181200	166400	81820	96020

CAL YR 1981	TOTAL	1074611	MEAN	2944	MAX	61500	MIN	808	AC-FT	2131000
WTR YR 1982	TOTAL	2239830	MEAN	6137	MAX	61500	MIN	1030	AC-FT	4443000

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, Hydrologic Unit 18010209, 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 mi² (311 km²).

PERIOD OF RECORD.--September 1911 to September 1921 (fragmentary), December 1956 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1635: 1957-58.

GAGE.--Water-stage recorder. Datum of gage is 1,198.37 ft (365.263 m) National Geodetic Vertical Datum of 1929.

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.--28 years (water years 1912-14, 1958-82), 433 ft³/s (12.26 m³/s), 313,700 acre-ft/yr (387 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,000 ft³/s (1,100 m³/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 ft³/s (170 m³/s) on basis of slope-area measurement at gage height 29.0 ft (8.84 m), previous site and datum; minimum observed, 20 ft³/s (0.57 m³/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 ft³/s (651 m³/s) on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,100 ft³/s (87.8 m³/s) revised, and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 16	1815	5,260 149	10.37 3.161	Dec. 26	1400	3,660 104	9.21 2.807
Dec. 6	0915	6,490 184	11.13 3.392	Feb. 15	2230	7,330 208	11.61 3.539
Dec. 15	0315	6,030 171	10.85 3.307	Mar. 1	0745	3,340 94.6	8.73 2.661
Dec. 19	0345	*11,100 314	13.45 4.100				

Minimum daily, 39 ft³/s (1.10 m³/s) Oct. 1, 4, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	218	458	1160	417	2470	417	1180	585	220	103	67
2	40	220	628	1020	407	1760	489	1120	558	225	103	65
3	41	203	783	941	412	1430	569	1090	520	214	103	65
4	39	182	706	930	417	1190	520	1050	505	206	100	63
5	39	161	1940	825	407	1030	489	983	469	195	98	61
6	105	145	4480	719	390	901	459	1100	447	187	95	59
7	241	134	2160	707	376	821	426	1200	426	185	94	58
8	107	122	1400	609	359	759	412	1100	426	175	94	57
9	173	112	1320	575	343	752	426	925	426	169	90	56
10	293	115	1350	547	335	807	657	841	459	167	89	57
11	165	163	1080	526	323	967	2220	802	469	162	89	57
12	111	430	995	499	308	878	1880	825	426	157	87	57
13	89	686	1370	469	1370	772	2280	891	415	153	84	59
14	77	893	2630	459	4830	707	2170	926	417	150	82	57
15	69	2320	3870	449	4050	651	1490	888	412	144	82	54
16	64	3170	1930	430	4820	627	1130	865	412	142	80	54
17	60	2520	1390	449	3190	547	996	907	385	138	79	54
18	57	1250	3480	489	2300	531	967	850	381	135	77	60
19	55	831	10100	459	3370	494	938	789	385	132	76	70
20	53	738	5280	449	3150	464	989	828	389	127	74	63
21	52	1500	3100	430	3660	440	1120	966	359	125	73	60
22	51	1580	2070	407	2500	421	1340	996	312	123	72	58
23	50	1570	1580	407	1800	403	1560	945	289	120	70	56
24	49	1220	1300	426	1420	403	1550	990	272	118	69	54
25	48	896	1200	435	1160	407	1460	1110	272	115	66	54
26	48	795	2320	586	1040	412	1340	1010	312	113	65	57
27	75	651	1820	558	945	407	1240	800	304	112	65	70
28	475	562	1370	520	924	426	1260	690	286	110	65	60
29	346	495	1550	479	---	403	1230	645	286	108	78	61
30	249	445	1540	454	---	421	1180	630	253	107	72	57
31	207	---	1320	430	---	454	---	615	---	105	69	---
TOTAL	3567	24327	66520	17843	45023	23155	33204	28557	11857	4639	2543	1780
MEAN	115	811	2146	576	1608	747	1107	921	395	150	82.0	59.3
MAX	475	3170	10100	1160	4830	2470	2280	1200	585	225	103	70
MIN	39	112	458	407	308	403	412	615	253	105	65	54
AC-FT	7080	48250	131900	35390	89300	45930	65860	56640	23520	9200	5040	3530
CAL YR 1981 TOTAL	153781			MEAN 421	MAX 10100	MIN 24	AC-FT 305000					
WTR YR 1982 TOTAL	263015			MEAN 721	MAX 10100	MIN 39	AC-FT 521700					

KLAMATH RIVER BASIN

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, Hydrologic Unit 18010210, Klamath National Forest, on left bank at Somes Bar, 1.0 mi (1.6 km) upstream from mouth.

DRAINAGE AREA.--751 mi² (1,945 km²).

PERIOD OF RECORD.--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) National Geodetic Vertical Datum of 1929. Prior to October 1927, nonrecording gage at different datum, October 1927 to Dec. 22, 1964, water-stage recorder at site 0.5 mi (0.8 km) upstream at datum 6.54 ft (1.993 m) higher.

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

AVERAGE DISCHARGE.--59 years, 1,805 ft³/s (51.12 m³/s), 1,308,000 acre-ft/yr (1.61 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 133,000 ft³/s (3,770 m³/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 ft³/s (935 m³/s); minimum, 70 ft³/s (1.98 m³/s) Aug. 25, Sept. 4, 5, 1931.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 10,000 ft³/s (283 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 15	1745	18,600 527	13.6 4.145	Dec. 19	2045	*41,300 1,170	20.8 6.352
Dec. 6	1845	10,800 306	10.3 3.139	Feb. 16	0145	25,500 722	15.1 4.609
Dec. 15	0930	11,400 323	10.6 3.225	Feb. 21	0915	24,800 702	14.9 4.542

Minimum daily, 170 ft³/s (4.81 m³/s) Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	178	847	2240	6080	2450	6660	2540	4950	2910	1630	463	260
2	176	817	2640	5500	2360	6560	2630	4900	2730	1530	448	253
3	176	742	2910	4990	2310	5800	3110	4820	2530	1440	433	249
4	175	687	2710	4760	2300	5240	3080	4730	2380	1290	428	246
5	170	639	2950	4470	2230	4790	2900	4530	2210	1210	418	244
6	193	599	7300	4120	2160	4400	2740	4780	2060	1160	406	244
7	790	572	6750	3850	2080	4090	2570	5250	2030	1140	398	235
8	508	523	4680	3640	2000	3810	2450	5020	2060	1080	397	229
9	482	478	4250	3510	1930	3610	2450	4400	2160	1020	381	227
10	1390	453	4160	3440	1860	3640	2770	3980	2390	992	371	223
11	960	613	3620	3480	1780	3970	6090	3690	2610	983	366	223
12	590	1970	3490	3410	1720	3770	6530	3740	2390	978	361	223
13	441	2200	4280	3280	3320	3480	6270	3970	2270	940	347	223
14	370	3440	7800	3190	14700	3330	7880	4200	2340	907	338	221
15	332	8880	9490	3110	14900	3130	6450	4150	2580	848	332	216
16	309	14100	6700	3030	20700	3050	5260	4050	2770	798	328	214
17	291	11000	5100	3020	14800	2840	4660	4310	2830	776	320	221
18	278	5820	7840	3130	10800	2720	4440	4100	2870	751	310	229
19	267	4030	30500	3020	15900	2570	4270	3710	2880	718	305	261
20	257	3700	29000	2910	14600	2450	4300	3840	2570	700	298	258
21	250	6270	16000	2780	22800	2360	4570	4280	2300	681	293	244
22	243	6420	10500	2610	16600	2280	5090	4640	2140	647	287	235
23	238	5670	7950	2560	11600	2220	5770	4550	1950	631	281	227
24	235	5580	6580	2560	8980	2180	5950	4850	2040	614	274	223
25	232	4370	5850	2630	7500	2160	5730	5450	1880	584	267	225
26	228	3840	7010	3250	6520	2130	5490	5290	2180	560	261	225
27	245	3390	7830	3340	5620	2100	5230	4260	2780	536	258	242
28	1230	2950	6530	3170	5010	2210	5220	3480	1960	517	258	242
29	1240	2630	7220	2890	---	2090	5030	3160	2110	505	272	235
30	915	2350	7690	2710	---	2210	4860	3010	1780	497	272	231
31	787	---	6710	2580	---	2590	---	3020	---	480	267	---
TOTAL	14176	105580	238280	107020	219530	104440	136330	133110	70690	27143	10438	7028
MEAN	457	3519	7686	3452	7840	3369	4544	4294	2356	876	337	234
MAX	1390	14100	30500	6080	22800	6660	7880	5450	2910	1630	463	261
MIN	170	453	2240	2560	1720	2090	2450	3010	1780	480	258	214
AC-FT	28120	209400	472600	212300	435400	207200	270400	264000	140200	53840	20700	13940
CAL YR 1981 TOTAL	649024			MEAN 1778	MAX 30500	MIN 120	AC-FT 1287000					
WTR YR 1982 TOTAL	1173765			MEAN 3216	MAX 30500	MIN 170	AC-FT 2328000					

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, Hydrologic Unit 18010209, 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 mi² (21,950 km²), 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) National Geodetic Vertical Datum of 1929. 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.--55 years, 8,181 ft³/s (231.7 m³/s), 5,927,000 acre-ft/yr (7.31 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 307,000 ft³/s (8,690 m³/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 ft³/s (2,270 m³/s) by slope-conveyance study; minimum daily, 320 ft³/s (9.06 m³/s) Aug. 25, Sept. 1, 1951.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 40,000 ft³/s (1,130 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 16	2345	56,400 1,600	17.48 5.328	Dec. 30	Unknown	44,000 1,250	Unknown
Dec. 6	1615	46,300 1,310	15.94 4.859	Feb. 21	1700	119,000 3,370	24.04 7.327
Dec. 15	0845	51,500 1,460	16.73 5.099	Mar. 1	1545	42,700 1,210	15.36 4.682
Dec. 20	Unknown	*201,000 5,690	30.07 9.165	Apr. 14	1045	43,700 1,240	15.52 4.730

Minimum daily, 1,340 ft³/s (37.9 m³/s) Oct. 1-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1340	2640	9200	32500	12400	37000	15200	19900	9960	6480	2410	2220
2	1340	2610	10100	29800	12000	39200	15600	19200	9500	6210	2470	2290
3	1340	2450	11800	27000	12000	34900	18600	18900	8660	6040	2490	2320
4	1340	2280	11000	24500	11900	31600	18600	18800	8140	7070	2480	2340
5	1340	2150	13300	22400	11400	29200	17600	18100	7760	7260	2490	2350
6	1370	2040	34900	20500	11000	27400	17100	18600	7230	7110	2490	2320
7	2820	1960	30000	18700	10700	25900	16400	19600	6960	6740	2480	2310
8	2070	1880	21700	17300	10400	24500	15800	19200	6940	6040	2470	2300
9	1900	1810	18500	15900	10100	23700	15400	17700	7140	5320	2440	2300
10	3860	1790	18800	15000	9930	23800	16200	16400	7200	5040	2420	2290
11	2830	1990	16300	14600	9710	25100	28300	15600	7670	4430	2410	2300
12	2070	4870	15400	14000	9430	24500	33600	15400	7410	4270	2400	2290
13	1770	6310	18600	13400	14100	23300	34700	15700	7200	4150	2380	2300
14	1630	10100	31000	13000	59700	22100	42300	16100	7330	4010	2350	2310
15	1550	22800	41900	12800	60300	21500	35400	15800	7790	3260	2340	2290
16	1510	37800	29800	12500	87600	20700	29500	15400	8050	3050	2340	2280
17	1490	42500	23000	12600	65600	19000	27100	15800	7950	2950	2320	2290
18	1470	25700	29800	13400	47200	17600	25300	15600	8120	2890	2310	2330
19	1450	17700	119000	13100	59700	16000	23900	14600	8380	2770	2290	2430
20	1430	14900	180000	12600	60300	15400	23700	14400	8080	2700	2290	2460
21	1420	20400	100000	12100	101000	15700	23900	15300	7650	2620	2280	2430
22	1420	24800	64000	12000	87300	15200	24200	16200	6840	2600	2270	2410
23	1410	23300	48000	11900	57500	14800	25900	16000	6210	2580	2250	2350
24	1400	21300	40000	12100	44500	14400	26000	16100	6010	2550	2230	2330
25	1400	17700	34000	12400	37000	13700	24800	17600	5800	2500	2220	2340
26	1400	15800	36500	14800	32500	13100	23700	18100	6080	2480	2210	2340
27	1430	13900	40000	16400	30300	13100	22300	15100	7570	2460	2190	2390
28	4090	12000	33500	15300	28100	13400	20900	12700	6020	2450	2180	2400
29	4370	10700	37000	14200	---	13200	20300	11100	6200	2440	2220	2360
30	3390	9650	42000	13400	---	13500	19800	10500	6320	2430	2230	2330
31	2680	---	37000	12800	---	15100	---	10300	---	2420	2230	---
TOTAL	60330	375830	1196100	503000	1003670	657600	702100	499800	222170	125320	72580	70000
MEAN	1946	12530	38580	16230	35850	21210	23400	16120	7406	4043	2341	2333
MAX	4370	42500	180000	32500	101000	39200	42300	19900	9960	7260	2490	2460
MIN	1340	1790	9200	11900	9430	13100	15200	10300	5800	2420	2180	2220
AC-FT	119700	745500	2372000	997700	1991000	1304000	1393000	991400	440700	248600	144000	138800
CAL YR 1981 TOTAL		2869980		MEAN 7863	MAX 180000	MIN 1230	AC-FT 5693000					
WTR YR 1982 TOTAL		5488500		MEAN 15040	MAX 180000	MIN 1340	AC-FT 10890000					

NOTE.--No gage-height record Dec. 20 to Jan. 4.

KLAMATH RIVER BASIN

11523000 KLAMATH RIVER AT ORLEANS, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.

CHEMICAL ANALYSES: Water years 1951-81.

WATER TEMPERATURES: Water year 1966 to December 1981 (discontinued).

SEDIMENT RECORDS: Water years 1955-59, 1967-79. Prior to October 1966, published as "at Somesbar."

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1965 to December 1981 (discontinued).

SEDIMENT RECORDS: January 1967 to September 1979.

INSTRUMENTATION.--Temperature recorder since October 1965.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 29.5°C July 27, 1973; minimum recorded, 0.0°C Dec. 22, 23, 1968, Jan. 9-11, 1974.

EXTREMES FOR PERIOD.--

WATER TEMPERATURES: Maximum recorded, 16.5°C Oct. 1-3; minimum recorded, 6.0°C Dec. 21.

TEMPERATURE (DEG. C) OF WATER, OCTOBER TO DECEMBER 1981

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

11523200 TRINITY RIVER ABOVE COFFEE CREEK, NEAR TRINITY CENTER, CA

LOCATION.--Lat 41°06'41", long 122°42'16", in SW¼NW¼ sec.32, T.38 N., R.7 W., Trinity County, Hydrologic Unit 18010211, Shasta National Forest, on left bank 24 ft (7.31 m) upstream from State Highway No. 3 bridge, 1.8 mi (2.9 km) upstream from Coffee Creek, and 8.6 mi (13.8 km) north of Trinity Center.

DRAINAGE AREA.--149 mi² (386 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 2,536.93 ft (773.256 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1978, water-stage recorder at site 0.2 mi (0.3 km) downstream at datum 3.57 ft (1.088 m) lower.

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

AVERAGE DISCHARGE.--25 years, 416 ft³/s (11.78 m³/s), 301,400 acre-ft/yr (372 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,500 ft³/s (750 m³/s) Jan. 16, 1974, gage height, 19.2 ft (5.852 m) from floodmarks, present site and datum, on basis of slope-area measurement at peak flow; minimum daily, 16 ft³/s (0.45 m³/s) Sept. 11-14, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1955, reached a stage of 10.5 ft (3.20 m), previous site and datum, from floodmarks, discharge, 11,400 ft³/s (323 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,300 ft³/s (65.1 m³/s) revised, and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 16	2315	*16,100 464	13.78 4.200	Feb. 21	1500	3,320 94.0	8.85 2.697
Dec. 19	1715	7,400 210	11.33 3.453	Apr. 11	0500	2,910 82.4	8.53 2.600
Dec. 15	2400	4,100 116	9.40 2.865				

Minimum daily, 35 ft³/s (0.99 m³/s) Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	101	439	472	270	3450	363	1290	769	445	96	57
2	35	93	443	445	277	1650	352	1340	706	408	93	54
3	37	83	437	408	303	1060	352	1340	660	367	91	54
4	37	78	428	394	318	826	341	1280	599	329	89	54
5	37	73	418	377	306	710	337	1210	539	301	88	53
6	39	71	595	341	295	623	322	1240	505	278	86	52
7	89	70	626	319	291	570	314	1440	494	266	82	51
8	60	66	530	315	277	561	311	1310	512	251	82	49
9	50	63	536	312	273	571	331	1050	545	236	79	49
10	81	64	521	313	266	618	536	934	598	228	77	48
11	64	100	465	330	255	661	2570	892	627	215	77	47
12	54	491	444	326	250	643	1640	942	571	207	75	47
13	50	786	457	325	296	599	1470	1040	562	197	73	47
14	47	917	538	328	607	589	1280	1150	600	188	71	47
15	45	3080	1350	326	1670	549	968	1170	618	178	71	46
16	44	10200	932	326	2620	528	811	1160	616	170	70	47
17	42	4200	715	326	1680	475	769	1270	595	163	68	48
18	41	1510	937	323	1170	455	778	1120	604	157	67	57
19	40	931	4970	316	2040	430	754	1020	595	152	65	70
20	40	685	4120	314	2180	411	770	1070	527	145	63	59
21	39	1190	2100	300	3080	398	817	1210	498	141	63	54
22	39	1040	1360	284	2040	388	934	1320	441	135	62	51
23	39	1350	1030	280	1330	383	1130	1320	403	132	61	49
24	38	1210	843	275	999	391	1250	1370	406	126	59	57
25	38	828	721	274	835	405	1250	1490	390	122	59	58
26	38	743	713	302	747	403	1180	1380	413	118	59	53
27	139	665	727	287	677	392	1180	1060	425	115	57	51
28	436	585	630	291	773	407	1280	857	434	110	57	50
29	177	520	587	275	---	389	1220	777	793	107	61	49
30	119	465	535	271	---	376	1190	742	528	103	61	48
31	106	---	493	270	---	382	---	750	---	101	58	---
TOTAL	2176	32258	29640	10045	26125	20293	26800	35544	16573	6191	2220	1556
MEAN	70.2	1075	956	324	933	655	893	1147	552	200	71.6	51.9
MAX	436	10200	4970	472	3080	3450	2570	1490	793	445	96	70
MIN	35	63	418	270	250	376	311	742	390	101	57	46
AC-FT	4320	63980	58790	19920	51820	40250	53160	70500	32870	12280	4400	3090

CAL YR 1981	TOTAL	152112	MEAN 417	MAX 10200	MIN 25	AC-FT 301700
WTR YR 1982	TOTAL	209421	MEAN 574	MAX 10200	MIN 35	AC-FT 415400

KLAMATH RIVER BASIN

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, Hydrologic Unit 18010211, Trinity National Forest, on side of intake structure of Trinity Dam on Trinity River, 9 mi (14 km) north of Lewiston.

DRAINAGE AREA.--692 mi² (1,792 km²).

PERIOD OF RECORD.--November 1960 to current year. Prior to October 1963 published as Trinity Lake near Lewiston.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation). Prior to Jan. 4, 1962, nonrecording gage at same site and datum.

REMARKS.--The lake is formed by an earthfill dam completed in November 1960. Storage began Nov. 23, 1960. Usable capacity, 2,437,700 acre-ft (3.01 km³) between elevations 1,995.5 ft (608.23 m), elevation of invert of river outlets and 2,370.0 ft (722.38 m), gross pool elevation. Dead storage, 10,000 acre-ft (12.3 hm³). Records, including extremes, represent total contents at 2400 hours.

COOPERATION.--Records furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 2,588,000 acre-ft (3.19 km³) Jan. 19, 1974, elevation, 2,378.32 ft (724.912 m); minimum since lake first filled, 222,400 acre-ft (274 hm³) Nov. 9, 1977, elevation, 2,120.22 ft (646.243 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,444,400 acre-ft (3.01 km³) June 16, elevation, 2,369.83 ft (722.324 m); minimum, 1,654,400 acre-ft (2.04 km³) Oct. 26, elevation, 2,315.63 ft (705.804 m).

Capacity table (elevation, in feet NGVD, and contents, in acre-feet)

2,100	162,200	2,250	955,100
2,140	292,900	2,310	1,583,600
2,190	529,600	2,380	2,617,000

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1701100	1662200	1887500	2088900	1979200	2096800	2112100	2298200	2420300	2428700	2366000	2245500
2	1700000	1662600	1887300	2087400	1975400	2100000	2116500	2301600	2423600	2429400	2361400	2239300
3	1698900	1662500	1886600	2086400	1971500	2099800	2119900	2308100	2424800	2429400	2357500	2233200
4	1697700	1661300	1885500	2084100	1967800	2096900	2123200	2313400	2427400	2429700	2353800	2226500
5	1696900	1661200	1885200	2080900	1964100	2092400	2126800	2318400	2429700	2429700	2350500	2220600
6	1696600	1661200	1891100	2077000	1959100	2087700	2130000	2324100	2431700	2430200	2347600	2215000
7	1696400	1660800	1895800	2073600	1954800	2081500	2132800	2329800	2433100	2430200	2344100	2209400
8	1695600	1660500	1898600	2069600	1950100	2075800	2135700	2334600	2434100	2430000	2340900	2203400
9	1695600	1660400	1901700	2065600	1948800	2071200	2139000	2337300	2435800	2430000	2336600	2196700
10	1693900	1661000	1903800	2061900	1948200	2073300	2145500	2339200	2437800	2430200	2331900	2193000
11	1691400	1663500	1905100	2058200	1947500	2076100	2168400	2340800	2438600	2431300	2328200	2190300
12	1688800	1668500	1906800	2054800	1947100	2079100	2183400	2344100	2437900	2431300	2324300	2187200
13	1686600	1675700	1911100	2050900	1952400	2081600	2199100	2350000	2438600	2430300	2320600	2184500
14	1684300	1683800	1915300	2046900	1964500	2083500	2212100	2353400	2440100	2429900	2316900	2181400
15	1681700	1715100	1926500	2042800	1988700	2085900	2222100	2356300	2442500	2428700	2312500	2178100
16	1679000	1777600	1934700	2038500	2018600	2087800	2230200	2358800	2444400	2425900	2308500	2175000
17	1676600	1810100	1941200	2034400	2036900	2088900	2237500	2361900	2443500	2423800	2304900	2172500
18	1674300	1821400	1958200	2031000	2045700	2090400	2244600	2364300	2442000	2421500	2301100	2170500
19	1671700	1827700	2026500	2027800	2060700	2091900	2249200	2366000	2440700	2418900	2297500	2168000
20	1669100	1832800	2065300	2027100	2073100	2094400	2252800	2368100	2438400	2415800	2293900	2165500
21	1668200	1844100	2080600	2023000	2089300	2095100	2256300	2370700	2435500	2412800	2289400	2162100
22	1665400	1853300	2087700	2018800	2098700	2095300	2261400	2375500	2432700	2409900	2284900	2156100
23	1662700	1862100	2090700	2014400	2101700	2094700	2266900	2380000	2431300	2406600	2280200	2149600
24	1659900	1868600	2092300	2009900	2098000	2095900	2270700	2390100	2430300	2403700	2276500	2144300
25	1657200	1873300	2092400	2005400	2095400	2097100	2273800	2400900	2428400	2400600	2271800	2137400
26	1654400	1878600	2092300	2002300	2091000	2097800	2278500	2408100	2429000	2397200	2268600	2130100
27	1656800	1881300	2092600	1999400	2086600	2098400	2283200	2409600	2429000	2393900	2265300	2126200
28	1659700	1883300	2092400	1995700	2080600	2099000	2288500	2409400	2428700	2390100	2261700	2122300
29	1661000	1885500	2092400	1992200	---	2098400	2292500	2409100	2429400	2383900	2258200	2118600
30	1661400	1887500	2091000	1988000	---	2104500	2295000	2412700	2429400	2377500	2255100	2114800
31	1661800	---	2090500	1983500	---	2108700	---	2415800	---	2370700	2251500	---
MAX	1701100	1887500	2092600	2088900	2101700	2108700	2295000	2415800	2444400	2431300	2366000	2245500
MIN	1654400	1660400	1885200	1983500	1947100	2071200	2112100	2298200	2420300	2370700	2251500	2114800
a	2316.18	2333.03	2347.10	2339.80	2346.43	2348.32	2360.51	2368.06	2368.89	2365.28	2357.71	2348.73
b	-405000	+225700	+203000	-107000	+97100	+28100	+186300	+120800	+13600	-58700	-119200	-136700
c	1840	610	580	320	710	1730	3680	7990	6440	8490	7900	5080

CAL YR 1981 MAX 2298600 MIN 1654400 b + 268600
WTR YR 1982 MAX 2444400 MIN 1654400 b + 412500

a Elevation, in feet NGVD, at end of month.

b Change in contents, in acre-feet.

c Evaporation, in acre-feet.

11525430 JUDGE FRANCIS CARR POWERPLANT NEAR FRENCH GULCH, CA

LOCATION.--Lat 40°38'49", long 122°37'34", Shasta County, Hydrologic Unit 18010212, 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.--19 years, 1,540 ft³/s (43.61 m³/s), 1,116,000 acre-ft/yr (1.38 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,910 ft³/s (111 m³/s) Feb. 11, 1970; no flow many days in many years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	248	0	1190	1590	3140	3310	4.0	3270	455	1500	1580	2610
2	258	0	1570	1600	2870	3320	6.0	3170	460	708	1480	2630
3	241	0	1600	1600	3170	3320	4.0	1870	1380	752	1600	2600
4	250	751	1270	1600	3170	3320	0	2150	637	494	1510	2630
5	260	0	1330	1600	3170	3320	17	2210	666	501	1530	2630
6	270	0	1380	1590	3180	3390	2.0	2420	645	496	1520	2600
7	280	0	1490	1590	3180	3400	0	2570	1240	463	1510	2600
8	245	0	1190	2900	3180	3370	0	2540	1490	444	1500	2620
9	250	0	1190	3130	1090	2810	0	2600	1530	444	1490	2630
10	1090	0	1270	3120	1270	1470	19	2600	1420	437	1450	930
11	1100	42	1270	3120	1160	1540	6.0	2610	1770	0	1610	930
12	1100	4.0	1360	3180	1380	1560	94	2180	2000	460	1520	919
13	1100	0	1540	3180	1220	1450	154	962	1860	549	1520	983
14	1180	0	1560	3190	1180	1460	15	2550	1940	497	1560	922
15	972	0	1020	3180	1510	1480	0	3150	1900	574	1520	945
16	1030	17	0	3200	4.0	1480	0	3250	2150	1370	1510	919
17	1020	2.0	0	3190	0	1430	0	3340	3130	1160	1480	947
18	1020	4.0	0	3180	2090	1480	0	3250	3040	1190	1620	1020
19	1020	4.0	617	3160	2520	984	1040	3150	3040	1470	1530	1160
20	1020	0	0	1620	3120	486	1570	3170	3070	1530	1530	1130
21	810	0	0	3180	3060	1360	1620	3150	3060	1540	2040	1550
22	1010	0	0	3180	2940	1730	1620	3130	3060	1540	1910	2760
23	1020	1590	0	3170	3210	1770	1770	3050	2060	1540	1970	2810
24	1030	1150	0	3170	3420	937	2680	1000	2020	1260	1510	2510
25	1200	759	0	3170	3350	900	2650	688	1990	1230	1660	2810
26	999	867	0	3170	3340	1090	1670	1980	1340	1540	1010	2810
27	0	1340	0	3170	3320	1280	1640	3230	1440	1540	987	1580
28	0	924	0	3170	3300	1340	1640	3250	1450	1600	1060	1480
29	0	764	0	3170	---	1250	1910	3190	1520	2960	1130	1500
30	0	560	0	3170	---	4.0	3000	1150	1510	2920	1120	1500
31	0	---	1060	3170	---	4.0	---	1140	---	2920	1310	---
TOTAL	20023	8778.0	21907	85410	67544.0	56045.0	23131.0	77970	53273	35629	46277	55665
MEAN	646	293	707	2755	2412	1808	771	2515	1776	1149	1493	1856
MAX	1200	1590	1600	3200	3420	3400	3000	3340	3130	2960	2040	2810
MIN	0	0	0	1590	0	4.0	0	688	455	0	987	919
AC-FT	39720	17410	43450	169400	134000	111200	45880	154700	105700	70670	91790	110400
CAL YR 1981 TOTAL	373632.00			MEAN 1024	MAX 3240	MIN 0	AC-FT 741100					
WTR YR 1982 TOTAL	551652.00			MEAN 1511	MAX 3420	MIN 0	AC-FT 1094000					

KLAMATH RIVER BASIN

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, Hydrologic Unit 18010211, on right bank 400 ft (122 m) upstream from Deadwood Creek, and 0.8 mi (1.3 km) northeast of Lewiston.

DRAINAGE AREA.--719 mi² (1,862 km²).

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. Datum of gage is 1,815.95 ft (553.502 m), National Geodetic Vertical Datum of 1929. 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).--71 years, 1,718 ft³/s (48.65 m³/s), 1,245,000 acre-ft/yr (1.54 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 71,600 ft³/s (2,030 m³/s) Dec. 22, 1955, gage height, 27.3 ft (8.32 m) from floodmarks, site and datum then in use; minimum, 23 ft³/s (0.65 m³/s) July 30, 1924. Maximum discharge since construction of Lewiston Dam in 1960, 14,400 ft³/s (408 m³/s) Jan. 18, 1974, gage height, 10.41 ft (3.173 m); minimum daily, 100 ft³/s (2.83 m³/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, 4,870 ft³/s (138 m³/s) Dec. 20, gage height, 7.40 ft (2.256 m); minimum daily, 254 ft³/s (7.19 m³/s) Nov. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	312	311	309	2260	310	2640	335	299	421	542	550	698
2	314	311	307	2270	309	2630	335	296	487	589	556	677
3	313	311	307	2250	308	2630	335	296	477	582	550	558
4	313	311	309	2240	308	2640	334	298	467	575	549	466
5	313	310	310	2250	308	2620	337	299	463	578	545	470
6	313	310	313	2240	308	2630	336	294	458	584	549	468
7	313	311	311	1920	308	2630	337	295	458	584	547	464
8	313	313	310	789	671	2610	337	293	459	579	549	465
9	313	313	310	358	746	2340	337	295	454	584	554	465
10	314	312	310	301	595	1090	336	294	454	591	554	465
11	313	312	310	301	327	429	338	292	458	588	556	469
12	313	313	311	301	309	319	338	292	457	596	560	468
13	312	314	313	301	312	329	338	293	456	599	563	468
14	312	303	311	302	315	329	338	296	454	597	565	467
15	312	254	311	304	318	329	335	292	452	598	567	466
16	313	314	309	304	313	329	334	291	452	597	569	466
17	313	311	309	304	313	329	334	291	450	590	576	465
18	313	309	317	304	312	329	334	289	453	590	578	463
19	313	308	761	302	315	329	335	289	453	591	577	459
20	314	309	3910	303	312	329	337	287	454	591	581	457
21	314	310	3850	304	312	329	337	288	453	573	579	457
22	312	311	3860	305	312	329	338	288	454	555	579	458
23	313	313	3850	307	1680	329	450	288	452	556	581	459
24	313	309	3890	307	2670	330	960	286	451	554	585	461
25	314	310	3940	307	2670	333	992	285	449	555	585	460
26	314	311	3990	308	2670	333	991	287	451	556	591	463
27	314	311	4030	308	2630	333	993	285	454	554	591	463
28	313	310	3920	309	2650	334	993	285	455	554	593	467
29	313	309	3890	307	---	335	993	282	455	556	600	467
30	313	307	3890	310	---	336	724	283	454	557	663	458
31	313	---	2620	310	---	338	---	285	---	558	730	---
TOTAL	9705	9261	51988	23286	22911	31499	14491	9013	13665	17853	17872	14457
MEAN	313	309	1677	751	818	1016	483	291	456	576	577	482
MAX	314	314	4030	2270	2670	2640	993	299	487	599	730	698
MIN	312	254	307	301	308	319	334	282	421	542	545	457
AC-FT	19250	18370	103100	46190	45440	62480	28740	17880	27100	35410	35450	28680
MEAN a	329	4404	5694	1770	4991	3308	4447	4900	2567	909	258	125
AC-FT a	20240	262100	350100	108800	277200	203400	264600	301300	152800	55870	15850	7410

CAL YR 1981 TOTAL 179435 MEAN 492 MAX 4030 MIN 254 AC-FT 355900 MEAN a 1952 AC-FT a 1413000
WTR YR 1982 TOTAL 236001 MEAN 647 MAX 4030 MIN 254 AC-FT 468100 MEAN a 2790 AC-FT a 2020000

a Adjusted for change in contents and evaporation from Clair Engle Lake and diversion to Judge Francis Carr powerplant.

11525500 TRINITY RIVER AT LEWISTON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--1951 to current year.

CHEMICAL ANALYSES: Water years 1951-81.

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.

EXTREMES FOR PERIOD OF DAILY RECORD (See REMARKS above):

WATER TEMPERATURES (water years 1952-60): Maximum recorded, 26.0°C July 20, 21, 28, 29, 1960; minimum recorded, 1.0°C on several days in 1952.

(Water years 1961 to current year): Maximum recorded, 21.0°C on several days in 1977; minimum recorded, 3.0°C June 22, 23, 1962.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 12.5°C July 13, 15, 16; minimum recorded, 6.5°C several days.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	8.5	9.5	9.0	7.5	6.5	8.0	8.0	---	---	7.5	7.5
2	9.0	8.5	9.5	9.0	7.5	6.5	8.0	7.5	8.0	7.5	7.5	7.5
3	9.5	8.5	10.0	9.0	7.5	7.0	7.5	7.5	8.0	7.5	7.5	7.5
4	9.5	8.5	10.0	9.0	7.5	7.0	7.5	7.5	8.0	7.0	7.5	7.5
5	10.0	8.5	10.0	9.5	7.5	7.0	7.5	7.5	8.0	7.0	7.5	7.5
6	9.5	9.0	10.0	9.5	7.5	7.5	8.0	7.5	8.0	7.0	7.5	7.5
7	10.0	9.0	10.0	9.5	8.0	7.5	7.5	7.5	7.5	7.0	7.5	7.0
8	10.0	9.0	10.0	9.0	7.5	7.5	7.5	7.5	7.5	7.0	7.5	7.0
9	9.5	9.0	10.0	9.0	7.5	7.5	7.5	7.5	7.5	7.0	7.5	7.0
10	10.0	7.5	9.5	9.5	7.5	7.5	8.0	7.5	8.0	7.0	7.5	7.0
11	10.0	9.0	10.0	9.5	7.5	7.5	8.0	7.5	8.0	7.0	8.0	7.0
12	10.0	9.0	10.5	9.5	7.5	7.5	8.0	7.5	8.0	7.0	8.5	7.0
13	9.5	8.5	9.5	9.0	7.5	7.5	8.0	7.5	7.5	7.5	8.0	7.0
14	9.5	8.5	9.5	9.0	7.5	7.5	8.0	7.5	8.0	7.5	8.5	7.0
15	9.5	8.5	9.5	9.0	7.5	7.0	8.0	7.5	7.5	7.5	8.5	7.0
16	9.5	8.5	9.5	9.0	7.5	7.0	8.0	7.5	8.0	7.5	8.0	7.0
17	9.5	8.5	10.0	9.0	7.5	7.0	8.0	7.5	8.5	7.5	8.0	7.0
18	9.5	8.5	9.5	9.0	7.5	7.5	8.0	7.5	8.0	7.5	8.0	7.0
19	9.5	8.5	9.0	9.0	7.5	7.5	8.0	7.5	9.0	7.5	8.0	6.5
20	10.0	8.5	9.0	9.0	7.5	7.5	7.5	7.0	8.5	8.0	8.5	6.5
21	9.5	8.5	9.0	8.5	8.0	7.5	8.0	7.0	8.0	7.5	8.5	7.0
22	10.0	8.5	8.5	8.5	8.0	8.0	---	---	8.5	7.5	8.5	7.0
23	10.0	9.0	8.5	8.5	8.0	8.0	---	---	7.5	7.0	9.0	7.5
24	9.5	9.0	9.0	8.0	8.0	8.0	---	---	7.5	7.0	9.0	7.5
25	10.0	9.0	8.5	8.0	8.0	8.0	---	---	7.5	7.5	8.5	7.5
26	9.5	9.0	8.0	7.5	8.5	8.5	---	---	7.5	7.5	8.0	7.5
27	9.0	9.0	8.0	7.5	8.5	8.5	---	---	7.5	7.5	8.0	7.5
28	9.5	8.5	7.5	7.0	8.5	8.0	---	---	7.5	7.5	8.5	7.0
29	9.5	8.5	7.5	7.0	8.0	8.0	---	---	---	---	7.5	7.0
30	9.5	8.5	7.0	6.5	8.5	8.0	---	---	---	---	7.0	7.0
31	9.5	8.5	---	---	8.5	8.5	---	---	---	---	7.5	6.5
MONTH	10.0	7.5	10.5	6.5	8.5	6.5	---	---	9.0	7.0	9.0	6.5

KLAMATH RIVER BASIN

11525500 TRINITY RIVER AT LEWISTON, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.5	6.5	10.0	7.5	10.0	8.5	10.0	9.0	10.0	8.5	10.5	8.0
2	7.0	6.5	9.5	7.5	10.0	8.5	10.5	9.0	10.0	8.5	9.5	9.0
3	7.5	6.5	10.0	7.5	10.5	9.0	10.0	9.0	10.0	9.0	9.5	8.5
4	7.5	6.5	10.0	7.5	10.5	9.5	10.5	9.0	10.5	9.0	9.5	8.5
5	7.0	6.5	10.5	8.0	10.5	9.5	10.5	9.5	10.5	9.5	9.5	8.5
6	7.5	6.5	10.5	8.5	11.0	9.5	11.0	9.5	10.5	9.5	9.5	8.5
7	7.0	6.5	10.0	8.0	11.0	9.5	11.0	10.0	10.0	9.0	9.5	8.5
8	8.5	6.5	10.0	8.0	11.0	9.5	11.0	10.0	10.5	9.0	9.5	8.5
9	8.5	6.5	10.5	8.0	11.0	9.5	11.5	10.0	10.0	9.0	10.0	8.5
10	7.5	7.0	10.0	7.5	11.0	9.5	11.5	10.5	10.5	9.0	9.5	8.5
11	8.0	7.0	10.0	7.5	10.0	9.5	12.0	10.5	10.5	9.5	10.5	9.0
12	8.0	7.0	10.0	7.5	10.5	9.5	11.5	10.5	10.5	9.5	11.0	9.0
13	8.0	7.5	9.5	8.0	10.5	9.0	12.5	11.0	10.5	7.5	10.5	9.0
14	8.5	7.5	10.0	7.5	10.5	9.0	12.0	11.0	10.5	9.5	10.5	9.0
15	9.5	7.0	10.5	7.0	10.5	9.0	12.5	11.0	10.5	8.5	10.5	9.5
16	9.5	7.5	10.0	8.0	11.0	9.0	12.5	10.5	10.5	9.0	10.0	9.0
17	10.0	8.0	10.0	8.0	11.0	9.5	12.0	10.5	10.5	9.5	9.5	9.0
18	10.5	8.0	10.0	8.0	10.5	8.5	11.5	10.0	10.5	9.5	9.0	9.0
19	10.5	8.5	10.0	6.5	10.0	8.5	11.5	10.5	10.5	9.5	9.5	8.5
20	11.0	8.5	10.0	7.5	10.0	8.5	11.0	10.0	10.5	9.5	9.5	8.5
21	11.0	9.0	10.0	8.0	10.0	8.5	11.0	9.5	10.5	9.5	9.5	8.5
22	11.0	9.0	10.0	8.0	10.0	8.5	11.0	9.0	10.5	9.5	10.0	8.5
23	10.5	8.5	10.0	8.0	9.5	8.0	11.0	9.5	10.5	9.0	9.5	8.0
24	9.5	8.0	10.0	8.0	9.5	8.5	10.5	9.5	10.0	7.5	9.5	8.0
25	9.5	8.0	10.5	8.5	10.0	8.5	11.5	9.5	10.0	9.0	9.5	8.0
26	9.0	8.0	11.0	9.0	9.5	8.5	10.5	9.0	10.0	9.0	9.0	8.5
27	9.0	7.5	11.0	9.0	10.5	9.0	10.5	9.5	10.0	9.0	9.0	8.0
28	9.0	8.0	10.5	8.5	9.5	9.0	10.5	9.5	10.0	7.0	9.0	8.0
29	9.0	8.5	10.0	8.0	9.5	9.0	11.0	9.5	10.0	9.5	9.0	8.0
30	9.0	8.0	10.0	8.0	10.5	8.0	10.0	9.0	10.5	9.5	9.0	8.0
31	---	---	10.0	8.0	---	---	10.0	8.5	10.5	10.0	---	---
MONTH	11.0	6.5	11.0	6.5	11.0	8.0	12.5	8.5	10.5	7.0	11.0	8.0

LOCATION.--Lat 40°40'35", long 122°49'46", in SW¼NE¼ sec.36, T.33 N., R.9 W., Trinity County, Hydrologic Unit 18010211, on right bank 0.1 mi (0.2 km) upstream from Phillips Gulch, and 2.5 mi (4.0 km) southwest of Lewiston.

WATER-DISCHARGE RECORDS

AVERAGE DISCHARGE.--6 years (water years 1977-82), 42.4 ft³/s (1.201 m³/s), 30,720 acre-ft/yr (37.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,080 ft³/s (58.9 m³/s) Jan. 14, 1978; gage height, 8.38 ft (2.554 m); maximum gage height, 8.45 ft (2.576 m) Jan. 16, 1978; minimum daily discharge, 4.3 ft (0.12 m³/s) many days in 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s (4.25 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 16	2400	505 14.3	6.81 2.076	Mar. 1	1045	525 14.9	6.90 2.103
Dec. 19	1515	*1,030 29.2	7.64 2.329	Apr. 13	1630	195 5.52	6.03 1.838
Feb. 15	2145	382 10.8	6.57 2.003				

Minimum daily, 9.3 ft³/s (0.26 m³/s) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	14	42	89	52	282	81	84	42	31	16	11
2	10	14	42	82	52	195	80	82	40	32	17	11
3	11	14	42	76	52	165	81	80	39	30	17	11
4	11	14	41	76	51	148	80	78	39	29	17	11
5	11	13	39	71	50	135	78	76	38	27	17	11
6	11	13	44	66	49	126	76	75	38	26	16	10
7	16	13	46	63	49	119	73	74	37	26	15	9.8
8	12	13	43	61	49	122	71	73	36	26	16	9.4
9	12	12	46	60	48	117	71	70	34	25	15	9.3
10	18	13	46	59	48	121	80	68	33	25	15	9.4
11	13	15	43	58	46	115	135	66	33	24	14	9.7
12	12	25	46	56	46	108	131	64	34	23	14	9.8
13	12	39	67	53	87	103	170	63	34	23	14	10
14	12	53	69	53	168	101	165	62	32	22	14	9.8
15	11	122	73	52	222	94	137	61	31	22	14	10
16	12	239	62	51	231	97	125	60	30	22	14	11
17	12	222	56	51	170	91	118	59	29	22	13	13
18	12	102	134	53	143	88	114	58	28	22	13	15
19	12	72	557	53	181	85	109	56	28	21	13	15
20	12	58	357	54	157	83	105	55	29	21	12	15
21	12	58	241	52	149	81	101	53	30	20	12	13
22	12	51	178	50	135	78	99	52	29	20	12	12
23	13	81	146	51	122	77	99	50	28	19	11	11
24	13	62	127	51	114	75	98	48	28	19	11	13
25	14	54	113	51	106	74	96	47	27	18	11	13
26	14	55	104	60	105	73	94	46	29	19	11	12
27	21	62	96	56	104	71	93	46	29	18	11	12
28	40	52	90	56	101	72	91	45	30	18	11	12
29	25	46	94	53	---	71	88	44	39	17	12	12
30	17	43	90	52	---	72	85	43	31	17	12	12
31	15	---	92	52	---	92	---	43	---	17	11	---
TOTAL	437.9	1644	3266	1821	2887	3331	3024	1881	984	701	421	343.2
MEAN	14.1	54.8	105	58.7	103	107	101	60.7	32.8	22.6	13.6	11.4
MAX	40	239	557	89	231	282	170	84	42	32	17	15
MIN	9.9	12	39	50	46	71	71	43	27	17	11	9.3
AC-FT	869	3260	6480	3610	5730	6610	6000	3730	1950	1390	835	681
CAL YR 1981	TOTAL	16106.4	MEAN 44.1	MAX 557	MIN 7.3	AC-FT 31950						
WTR YR 1982	TOTAL	20741.1	MEAN 56.8	MAX 557	MIN 9.3	AC-FT 41140						

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: November 1975 to current year.

SEDIMENT RECORDS.--November 1975 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 6,710 mg/L Jan. 16, 1978; minimum daily mean, 0 mg/L during most years.

SEDIMENT LOADS: Maximum daily, 15,900 tons (14,400 metric tons) Jan. 16, 1978; minimum daily, 0 ton (0 metric ton) during most years.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,890 mg/L Dec. 19; minimum daily mean, 0 mg/L Aug. 2, 31, Sept. 15.

SEDIMENT LOADS: Maximum daily, 3,630 tons (3,290 metric tons) Dec. 19; minimum daily, 0 ton (0 metric ton) Aug. 2, 31, Sept. 15.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE-DAILY

[illegible]

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	9.9	1	.03	14	5	.19	42	5	.57
2	10	2	.05	14	5	.19	42	6	.68
3	11	3	.09	14	5	.19	42	6	.68
4	11	3	.09	14	6	.23	41	6	.66
5	11	3	.09	13	6	.21	39	6	.63
6	11	6	.18	13	6	.21	44	7	.83
7	16	13	.56	13	6	.21	46	8	.99
8	12	3	.10	13	4	.14	43	7	.81
9	12	3	.10	12	2	.06	46	11	1.4
10	18	14	.68	13	1	.04	46	9	1.1
11	13	4	.14	15	1	.04	43	5	.58
12	12	3	.10	25	5	.34	46	6	.75
13	12	2	.06	39	13	2.3	67	26	4.7
14	12	2	.06	53	18	2.9	69	23	4.3
15	11	1	.03	122	122	56	73	21	4.1
16	12	2	.06	239	312	285	62	13	2.2
17	12	2	.06	222	389	312	56	9	1.4
18	12	2	.06	102	42	12	134	134	71
19	12	2	.06	72	26	5.1	557	1890	3630
20	12	2	.06	58	23	3.6	357	577	555
21	12	2	.06	58	22	3.4	241	220	143
22	12	2	.06	51	21	2.9	178	110	53
23	13	2	.07	81	47	10	146	68	27
24	13	2	.07	62	22	3.7	127	38	13
25	14	2	.08	54	15	2.2	113	23	7.0
26	14	2	.08	55	12	1.8	104	19	5.3
27	21	7	.40	62	10	1.7	96	19	4.9
28	40	18	1.9	52	7	.98	90	18	4.4
29	25	7	.47	46	6	.75	94	23	5.8
30	17	6	.28	43	5	.58	90	21	5.1
31	15	5	.20	---	---	---	92	18	4.5
TOTAL	437.9	---	6.33	1644	---	708.96	3266	---	4555.38

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	89	19	4.6	52	7	.98	282	471	461
2	82	16	3.5	52	7	.98	195	197	108
3	76	15	3.1	52	7	.98	165	90	40
4	76	14	2.9	51	7	.96	148	73	29
5	71	14	2.7	50	6	.81	135	57	21
6	66	13	2.3	49	6	.79	126	45	15
7	63	11	1.9	49	5	.66	119	40	13
8	61	10	1.6	49	4	.53	122	34	11
9	60	10	1.6	48	4	.52	117	29	9.2
10	59	9	1.4	48	4	.52	121	24	7.8
11	58	9	1.4	46	4	.50	115	20	6.2
12	56	8	1.2	46	4	.50	108	19	5.5
13	53	8	1.1	87	51	17	103	19	5.3
14	53	8	1.1	168	200	90	101	21	5.7
15	52	8	1.1	222	224	151	94	22	5.6
16	51	7	.96	231	236	159	97	19	5.0
17	51	6	.83	170	123	56	91	17	4.2
18	53	5	0	143	59	23	88	17	4.0
19	53	5	.72	181	68	34	85	16	3.7
20	54	5	.73	157	41	17	83	16	3.6
21	52	5	.70	149	39	16	81	16	3.5
22	50	5	.68	135	36	13	78	16	3.4
23	51	5	.69	122	33	11	77	15	3.1
24	51	5	.69	114	30	9.2	75	15	3.0
25	51	4	.55	106	28	8.0	74	15	3.0
26	60	19	3.1	105	29	8.2	73	15	3.0
27	56	13	2.0	104	35	9.8	71	15	2.9
28	56	10	1.5	101	31	8.5	72	18	3.5
29	53	8	1.1	---	---	---	71	22	4.2
30	52	8	1.1	---	---	---	72	25	4.9
31	52	8	1.1	---	---	---	92	50	12
TOTAL	1821	---	47.95	2887	---	639.43	3331	---	810.3

KLAMATH RIVER BASIN

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	81	37	8.1	84	13	2.9	42	5	.57
2	80	32	6.9	82	13	2.9	40	4	.43
3	81	29	6.3	80	4	.86	39	3	.32
4	80	25	5.4	78	12	2.5	39	3	.32
5	78	18	3.8	76	12	2.5	38	4	.41
6	76	13	2.7	75	12	2.4	38	5	.51
7	73	10	2.0	74	12	2.4	37	6	.60
8	71	11	2.1	73	12	2.4	36	3	.29
9	71	14	2.7	70	12	2.3	34	3	.28
10	80	22	4.8	68	12	2.2	33	3	.27
11	135	66	25	66	12	2.1	33	4	.36
12	131	45	16	64	19	3.3	34	4	.37
13	170	87	41	63	10	1.7	34	4	.37
14	165	80	36	62	8	1.3	32	4	.35
15	137	62	23	61	8	1.3	31	4	.33
16	125	52	18	60	8	1.3	30	3	.24
17	118	44	14	59	7	1.1	29	3	.23
18	114	34	10	58	7	1.1	28	2	.15
19	109	28	8.2	56	7	1.1	28	2	.15
20	105	24	6.8	55	6	.89	29	2	.16
21	101	21	5.7	53	6	.86	30	2	.16
22	99	18	4.8	52	6	.84	29	2	.16
23	99	17	4.5	50	6	.81	28	2	.15
24	98	16	4.2	48	6	.78	28	2	.15
25	96	16	4.1	47	6	.76	27	2	.15
26	94	16	4.1	46	4	.50	29	2	.16
27	93	15	3.8	46	4	.50	29	2	.16
28	91	15	3.7	45	3	.36	30	24	1.9
29	88	14	3.3	44	3	.36	39	32	3.4
30	85	13	4.0	43	3	.35	31	15	1.3
31	---	---	---	43	5	.58	---	---	---
TOTAL	3024	---	284.0	1881	---	45.25	984	---	14.40
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	31	5	.42	16	1	.04	11	1	.03
2	32	8	.69	17	0	0	11	2	.06
3	30	6	.49	17	1	.05	11	3	.09
4	29	3	.23	17	1	.05	11	1	.03
5	27	4	.29	17	1	.05	11	1	.03
6	26	6	.42	16	1	.04	10	1	.03
7	26	6	.42	15	1	.04	9.8	1	.03
8	26	13	.91	16	1	.04	9.4	1	.03
9	25	12	.81	15	1	.04	9.3	1	.03
10	25	11	.74	15	1	.04	9.4	1	.03
11	24	10	.65	14	1	.04	9.7	1	.03
12	23	10	.62	14	1	.04	9.8	1	.03
13	23	14	.87	14	1	.04	10	1	.03
14	22	14	.83	14	1	.04	9.8	1	.03
15	22	16	.95	14	1	.04	10	0	0
16	22	18	1.1	14	1	.04	11	1	.03
17	22	13	.77	13	1	.04	13	2	.07
18	22	9	.53	13	2	.07	15	2	.08
19	21	4	.23	13	3	.11	15	2	.08
20	21	2	.11	12	2	.06	15	2	.08
21	20	1	.05	12	1	.03	13	3	.11
22	20	1	.05	12	1	.03	12	3	.10
23	19	1	.05	11	1	.03	11	3	.09
24	19	1	.05	11	1	.03	13	2	.07
25	18	1	.05	11	1	.03	13	1	.04
26	19	1	.05	11	1	.03	12	1	.03
27	18	1	.05	11	1	.03	12	1	.03
28	18	1	.05	11	1	.03	12	1	.03
29	17	1	.05	12	1	.03	12	1	.03
30	17	1	.05	12	1	.03	12	1	.03
31	17	1	.05	11	0	0	---	---	---
TOTAL	701	---	12.63	421	---	1.21	343.2	---	1.41
YEAR	20741.1		7127.25						

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1981	437.90	6.33	3	9
NOVEMBER ...	1644.00	708.96	213	922
DECEMBER ...	3266.00	4555.38	561	5120
JANUARY 1982	1821.00	47.95	195	243
FEBRUARY ...	2887.00	639.43	452	1090
MARCH	3331.00	810.30	496	1310
APRIL	3024.00	284.00	419	703
MAY	1881.00	45.25	200	245
JUNE	984.00	14.40	48	62
JULY	701.00	12.63	5	18
AUGUST	421.00	1.21	0	1
SEPTEMBER ..	343.20	1.41	0	1
TOTAL	20741.10	7127.25	2592	9724

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	
NOV 16...	1000	164	9.5	249	110	--	--	--	--	--	
DEC 19...	1100	753	7.0	4380	8900	27	37	49	62	74	
20...	1230	335	8.5	268	242	--	--	--	--	--	
DATE	TIME	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
NOV 16...	19	--	28	--	50	--	77	--	96	100	
DEC 19...	--	86	--	94	--	99	--	100	--	--	
20...	40	--	53	--	70	--	85	--	95	100	

KLAMATH RIVER BASIN

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
NOV							
16...	1045	9.5	1	204	--	0	3
16...	1050	9.5	1	204	--	0	2
16...	1055	9.5	1	204	--	0	4
16...	1100	9.5	1	204	--	--	--
16...	1105	9.5	1	204	0	2	11

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
NOV							
16...	12	24	28	29	33	53	100
16...	6	13	20	23	44	100	--
16...	14	28	36	38	54	100	--
16...	--	--	--	0	2	67	100
16...	34	67	90	96	100	--	--

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD MATERIAL, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	STREAM WIDTH (FT)	SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY)	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
JAN												
18...	1200	4.0	15	52	30.0	9.1	0	1	12	52	94	100

11525655 TRINITY RIVER BELOW LIMEKILN GULCH, NEAR DOUGLAS CITY, CA

LOCATION.--Lat 40°40'21", long 122°55'07", in SW¼NW¼ sec. 32, T.33 N., R.9 W., Trinity County, Hydrologic Unit 18010211, on left bank 1.8 mi (2.9 km) northeast of Douglas City and 2.3 mi (3.7 km) downstream from Limekiln Gulch.

DRAINAGE AREA.--812 mi² (2,103 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1981 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,650 (503 m), from topographical map.

REMARKS.--Records good. Flow regulated by Clair Engle Lake (station 11525400) and transbasin diversion to Judge Francis Carr powerplant (station 11525430). Small diversion for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,170 ft³/s (175 m³/s) Dec. 20, 1981, gage height, 9.54 ft (2.908 m); minimum daily, 311 ft³/s (8.81 m³/s) June 23, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,170 ft³/s (175 m³/s) Dec. 20, gage height, 9.54 ft (2.908 m); minimum daily, 331 ft³/s (9.37 m³/s) Oct. 2-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	350	363	404	2650	460	2820	516	523	476	564	584	658
2	331	359	403	2650	456	2810	511	495	581	629	584	631
3	331	355	403	2640	459	2810	519	491	569	625	584	573
4	331	355	402	2630	458	2810	518	490	555	612	579	460
5	331	355	396	2630	454	2800	512	485	549	607	579	460
6	336	355	475	2620	448	2800	505	481	544	612	577	460
7	359	355	489	2010	445	2800	494	485	541	613	573	460
8	346	355	441	1090	650	2800	487	486	542	612	578	459
9	342	354	436	561	770	2800	484	491	541	609	579	450
10	385	352	432	466	704	1400	515	475	544	615	579	450
11	354	367	416	465	456	726	744	460	550	618	581	450
12	347	442	430	459	421	541	700	450	553	623	583	455
13	344	441	538	451	606	517	686	450	544	633	590	455
14	340	507	614	450	1120	511	705	450	540	624	596	455
15	338	766	612	450	1280	498	642	455	540	619	592	453
16	341	1120	527	447	1480	504	600	455	540	623	594	450
17	341	935	481	449	1080	490	575	463	540	617	594	456
18	341	545	755	455	1000	482	561	465	545	617	600	454
19	341	470	2920	451	928	473	546	446	560	613	596	460
20	341	438	4770	459	838	467	537	445	534	616	596	454
21	343	494	4490	451	792	464	532	451	532	611	594	450
22	341	499	4340	439	709	458	529	477	527	586	590	450
23	341	631	4280	436	1510	454	568	461	521	585	589	450
24	341	540	4290	436	2770	450	981	467	512	584	589	449
25	342	472	4260	437	2750	450	1060	475	512	582	590	445
26	345	458	4310	489	2760	450	1070	467	530	587	590	447
27	354	505	4280	490	2730	442	1070	440	547	584	590	450
28	488	458	4120	509	2710	449	1070	420	523	584	590	453
29	401	430	4110	489	---	441	1070	410	544	586	590	455
30	372	413	4480	474	---	449	933	406	527	590	619	450
31	365	---	3920	467	---	550	---	406	---	584	680	---
TOTAL	10903	14489	63224	29600	31244	36916	20240	14321	16163	18764	18329	14102
MEAN	352	483	2039	955	1116	1191	675	462	539	605	591	470
MAX	488	1120	4770	2650	2770	2820	1070	523	581	633	680	658
MIN	331	352	396	436	421	441	484	406	476	564	573	445
AC-FT	21630	28740	125400	58710	61970	73220	40150	28410	32060	37220	36360	27970
WTR YR 1982	TOTAL	288295	MEAN	790	MAX	4770	MIN	331	AC-FT	571800		

11525655 TRINITY RIVER BELOW LIMEKILN GULCH, NEAR DOUGLAS CITY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	516	8	11	523	10	14	476	2	2.6
2	511	5	6.9	495	11	15	581	2	3.1
3	519	3	4.2	491	12	16	569	2	3.1
4	518	3	4.2	490	8	11	555	2	3.0
5	512	3	4.1	485	5	6.5	549	2	3.0
6	505	3	4.1	481	2	2.6	544	3	4.4
7	494	2	2.7	485	2	2.6	541	3	4.4
8	487	2	2.6	486	2	2.6	542	2	2.9
9	484	2	2.6	491	2	2.7	541	2	2.9
10	515	2	2.8	475	2	2.6	544	2	2.9
11	744	3	6.0	460	2	2.5	550	1	1.5
12	700	3	5.7	450	2	2.4	553	1	1.5
13	686	3	5.6	450	2	2.4	544	1	1.5
14	705	4	7.6	450	1	1.2	540	1	1.5
15	642	4	6.9	455	1	1.2	540	1	1.5
16	600	4	6.5	455	1	1.2	540	2	2.9
17	575	5	7.8	463	1	1.3	540	2	2.9
18	561	5	7.6	465	1	1.3	545	3	4.4
19	546	5	7.4	446	0	0	560	3	4.5
20	537	5	7.2	445	0	0	534	3	4.3
21	532	4	5.7	451	0	0	532	3	4.3
22	529	4	5.7	477	0	0	527	2	2.8
23	568	3	4.6	461	1	1.2	521	2	2.8
24	981	3	7.9	467	1	1.3	512	2	2.8
25	1060	3	8.6	475	1	1.3	512	2	2.8
26	1070	3	8.7	467	1	1.3	530	3	4.3
27	1070	3	8.7	440	1	1.2	547	3	4.4
28	1070	5	14	420	1	1.1	523	4	5.6
29	1070	7	20	410	1	1.1	544	5	7.3
30	933	8	20	406	1	1.1	527	13	18
31	---	---	---	406	1	1.1	---	---	---
TOTAL	20240	---	217.4	14321	---	99.80	16163	---	113.9

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	564	21	32	584	4	6.3	658	2	3.6
2	629	3	5.1	584	2	3.2	631	2	3.4
3	625	3	5.1	584	1	1.6	573	2	3.1
4	612	3	5.0	579	1	1.6	460	2	2.5
5	607	3	4.9	579	1	1.6	460	2	2.5
6	612	3	5.0	577	1	1.6	460	1	1.2
7	613	3	5.0	573	1	1.5	460	1	1.2
8	612	3	5.0	578	1	1.6	459	1	1.2
9	609	2	3.3	579	1	1.6	450	1	1.2
10	615	2	3.3	579	1	1.6	450	1	1.2
11	618	2	3.3	581	1	1.6	450	2	2.4
12	623	2	3.4	583	1	1.6	455	2	2.5
13	633	3	5.1	590	1	1.6	455	2	2.5
14	624	4	6.7	596	1	1.6	455	2	2.5
15	619	5	8.4	592	1	1.6	453	2	2.4
16	623	6	10	594	1	1.6	450	2	2.4
17	617	5	8.3	594	1	1.6	456	1	1.2
18	617	4	6.7	600	1	1.6	454	1	1.2
19	613	3	5.0	596	1	1.6	460	1	1.2
20	616	2	3.3	596	1	1.6	454	1	1.2
21	611	2	3.3	594	1	1.6	450	2	2.4
22	586	2	3.2	590	1	1.6	450	2	2.4
23	585	2	3.2	589	1	1.6	450	2	2.4
24	584	2	3.2	589	2	3.2	449	2	2.4
25	582	2	3.1	590	2	3.2	445	3	3.6
26	587	2	3.2	590	1	1.6	447	3	3.6
27	584	2	3.2	590	1	1.6	450	3	3.6
28	584	4	6.3	590	1	1.6	453	2	2.4
29	586	6	9.5	590	1	1.6	455	2	2.5
30	590	8	13	619	1	1.7	450	2	2.4
31	584	6	9.5	680	2	3.7	---	---	---
TOTAL	18764	---	194.6	18329	---	61.2	14102	---	68.3
YEAR	288295		47864.99						

11525655 TRINITY RIVER BELOW LIMEKILN GULCH, NEAR DOUGLAS CITY, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1981	10903.00	76.98	0	77
NOVEMBER ...	14489.00	753.71	39	793
DECEMBER ...	63224.00	39957.20	9720	49700
JANUARY 1982	29600.00	2101.90	2000	4100
FEBRUARY ...	31244.00	2236.10	1920	4150
MARCH	36916.00	1983.90	3160	5140
APRIL	20240.00	217.40	133	350
MAY	14321.00	99.80	0	100
JUNE	16163.00	113.90	0	114
JULY	18764.00	194.60	0	195
AUGUST	18329.00	61.20	0	61
SEPTEMBER ..	14102.00	68.30	0	68
TOTAL	288295.00	47864.99	16972	64848

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM
NOV							
16...	1440	9.5	1	1270	0	1	2
16...	1445	9.5	1	1270	--	0	1
16...	1450	9.5	1	1270	0	1	1
16...	1455	9.5	1	1270	--	0	1
16...	1500	9.5	1	1270	--	--	0
DEC							
21...	1415	8.0	1	4360	--	--	0
21...	1420	8.0	1	4360	--	--	0
21...	1425	8.0	1	4360	--	--	0
21...	1430	8.0	1	4360	--	--	0
21...	1435	8.0	1	4360	--	--	0

DATE	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
NOV							
16...	3	6	18	46	57	60	100
16...	2	2	11	47	89	100	--
16...	3	8	18	28	34	34	100
16...	2	10	39	85	99	100	--
16...	1	10	42	87	98	100	--
DEC							
21...	1	4	24	76	89	90	100
21...	1	12	46	92	100	--	--
21...	1	9	40	90	100	--	--
21...	2	18	67	97	100	--	--
21...	1	17	58	90	100	--	--

KLAMATH RIVER BASIN

11525655 TRINITY RIVER BELOW LIMEKILN GULCH, NEAR DOUGLAS CITY, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SEDIMENT BEDLOAD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	STREAM WIDTH (FT)	SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
DEC 28...	1300	8.0	24	4140	225	803	0	1
FEB 24...	1345	7.5	20	2740	216	640	0	2

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
DEC 28...	6	24	65	95	100	--	--
FEB 24...	8	18	49	91	99	99	100

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, Hydrologic Unit 18010211, 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 mi² (3,727 km²).

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.

REVISED RECORDS.--WDR CA-78-2: 1975 (M).

GAGE.--Water-stage recorder. Datum of gage is 944.05 ft (287.746 m) National Geodetic Vertical Datum of 1929. Oct. 1, 1931, to Jan. 19, 1940, at site 2 mi (3 km) upstream at different datum.

REMARKS.--Records good. Flow regulated since November 1960 by Clair Engle Lake (station 11525400), 64 mi (103 km) upstream. Small diversions above station for mining and irrigation.

AVERAGE DISCHARGE.--13 years (water years 1932-40, 1957-60), 2,785 ft³/s (78.87 m³/s), 2,016,000 acre-ft/yr (2.49 km³/yr); 22 years (water years 1961-82), 1,640 ft³/s (46.44 m³/s), 1,188,000 acre-ft/yr (1.46 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81,500 ft³/s (2,310 m³/s) Feb. 25, 1958, gage height, 30.50 ft (9.296 m), from rating curve extended above 40,000 ft³/s (1,130 m³/s) on basis of slope-area measurement at gage height 43.2 ft (13.17 m); minimum, 82 ft³/s (2.32 m³/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 ft³/s (4,870 m³/s), on basis of slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 39,200 ft³/s (1,110 m³/s) Dec. 19, gage height, 20.91 ft (6.373 m); minimum daily, 416 ft³/s (11.8 m³/s) Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	526	906	1790	5930	2400	8300	2380	3160	1480	1260	832	798
2	430	844	1880	5580	2300	8840	2300	2930	1550	1310	814	766
3	423	783	2010	5120	2250	7350	2490	2840	1520	1280	801	750
4	418	731	1950	4930	2200	6560	2670	2790	1460	1190	793	650
5	416	697	1830	4610	2120	6060	2570	2670	1400	1150	788	586
6	541	664	2850	4390	2020	5640	2450	2670	1340	1150	782	582
7	758	655	3860	3750	1930	5330	2300	2800	1310	1160	779	574
8	681	628	2800	3150	1880	5170	2190	2680	1320	1130	791	567
9	565	603	2510	2730	2110	5010	2200	2430	1360	1100	776	566
10	1150	591	2670	2400	2050	4390	2490	2210	1430	1100	770	562
11	906	728	2410	2300	1770	3450	5690	2060	1540	1120	766	560
12	656	1420	2310	2390	1530	2910	5940	2000	1490	1150	757	563
13	566	1710	2700	2350	2160	2700	5420	2040	1460	1140	746	565
14	522	3100	5110	2290	7750	2590	6260	2090	1450	1120	741	562
15	497	6720	5580	2220	9630	2450	5250	2090	1600	1060	738	559
16	480	11500	4470	2200	15000	2420	4380	2040	1650	1030	739	559
17	468	9380	3510	2220	9540	2290	3930	2090	1730	1010	736	577
18	464	4480	4900	2400	7010	2170	3780	2050	1840	1010	731	608
19	458	3000	24800	2400	9110	2060	3670	1900	1720	990	724	632
20	454	2430	26500	2300	8580	1970	3670	1860	1690	993	718	616
21	447	3040	17200	2220	8440	1910	3730	1940	1520	992	715	598
22	445	3560	12500	2190	7010	1860	3810	2110	1530	945	711	591
23	438	4370	9960	2140	5660	1810	4070	2080	1400	927	707	585
24	438	4520	8560	2190	6540	1780	4330	2050	1430	926	700	582
25	438	3260	7640	2400	6130	1770	4470	2300	1400	904	694	581
26	435	2780	7460	2800	5810	1740	4240	2330	1440	888	690	581
27	474	2790	8160	3500	5580	1710	4030	1950	1930	873	688	583
28	1420	2510	7270	3250	5310	1760	3920	1680	1430	860	689	584
29	1420	2180	7220	3000	---	1720	3790	1560	1450	856	699	584
30	1020	1930	7570	2800	---	1800	3600	1490	1300	861	696	576
31	895	---	7060	2600	---	2260	---	1490	---	855	759	---
TOTAL	19249	82510	207040	94750	143820	107780	112020	68380	45170	32340	23070	18047
MEAN	621	2750	6679	3056	5136	3477	3734	2206	1506	1043	744	602
MAX	1420	11500	26500	5930	15000	8840	6260	3160	1930	1310	832	798
MIN	416	591	1790	2140	1530	1710	2190	1490	1300	855	688	559
AC-FT	38180	163700	410700	187900	285300	213800	222200	135600	89590	64150	45760	35800

CAL YR 1981 TOTAL 665726 MEAN 1824 MAX 26500 MIN 364 AC-FT 1320000
WTR YR 1982 TOTAL 954176 MEAN 2614 MAX 26500 MIN 416 AC-FT 1893000

NOTE.--No gage-height record Jan. 7 to Feb. 4.

KLAMATH RIVER BASIN

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.

REMARKS.--Differences between recorder values before adjustment and field measurement values exceeded $\pm 1.0^{\circ}\text{C}$ for water temperature at times during the year.

INSTRUMENTATION.--Temperature recorder since October 1961.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 27.0°C Aug. 17-19, 24, 1967, Aug. 24, 1982; minimum recorded, 0.0°C Dec. 7-11, 1972.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 27.0°C Aug 24; minimum recorded, 3.0°C Feb. 6.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.5	11.0	10.5	10.0	8.5	6.5	7.0	6.0	6.0	5.5	7.0	6.5
2	15.5	12.0	10.5	9.5	9.0	8.5	6.0	5.5	6.0	5.0	6.5	6.0
3	14.0	10.5	11.0	9.5	9.5	9.0	5.5	5.5	6.5	5.5	6.5	6.0
4	13.0	10.0	11.0	10.5	9.0	8.5	6.5	5.5	6.0	4.5	6.5	6.0
5	13.5	9.5	11.5	10.0	8.5	8.5	6.5	6.0	5.0	3.5	6.5	5.5
6	13.5	12.5	12.0	11.0	9.0	8.5	6.0	5.5	4.5	3.0	6.5	5.0
7	12.5	11.0	11.5	11.0	9.0	9.0	5.5	5.0	5.0	3.5	6.5	5.5
8	12.0	10.5	11.0	10.5	9.0	8.5	5.5	5.0	6.0	4.5	7.5	6.5
9	12.0	11.0	11.0	10.0	9.5	9.0	6.0	5.5	5.5	4.5	8.5	8.5
10	12.0	11.0	12.0	10.5	9.5	8.5	6.0	6.0	6.0	5.0	8.5	8.0
11	11.0	10.0	12.5	11.5	8.5	8.0	6.5	6.0	6.0	5.0	8.5	7.5
12	11.0	9.0	12.5	11.0	8.0	8.0	6.5	6.0	6.5	4.5	8.5	7.0
13	10.5	8.0	11.0	9.5	8.0	8.0	6.0	5.5	7.0	6.0	8.0	7.0
14	11.0	8.5	10.0	9.0	9.0	8.0	6.0	6.0	7.0	6.5	8.5	7.5
15	11.0	9.0	9.5	9.0	9.5	8.5	6.0	5.0	7.0	7.0	7.5	7.0
16	11.0	8.0	10.5	9.5	8.5	6.5	5.5	5.0	8.0	7.0	7.0	6.5
17	11.5	8.5	10.5	8.5	8.0	6.5	6.5	5.5	8.0	8.0	7.5	6.5
18	12.5	9.5	9.0	9.0	9.0	8.0	6.5	6.0	8.0	7.5	7.0	6.5
19	12.5	10.0	9.0	8.5	10.0	9.0	5.5	5.0	9.5	8.0	7.5	6.5
20	12.5	9.5	10.0	9.0	10.0	9.5	5.5	5.5	10.0	9.0	8.0	7.5
21	12.5	9.5	10.5	10.0	9.5	8.5	6.0	5.5	9.5	6.5	8.5	7.5
22	12.5	10.0	10.5	10.0	8.5	8.0	5.5	5.0	6.5	5.5	9.5	7.5
23	12.5	10.0	10.5	10.0	8.5	8.0	6.5	5.0	5.5	4.5	10.0	8.0
24	12.0	9.5	10.0	8.5	9.0	8.5	7.0	6.0	6.0	5.0	10.5	8.5
25	12.0	9.5	8.5	8.0	10.0	9.0	8.5	7.0	7.0	5.0	10.0	9.5
26	12.0	10.5	8.0	6.0	10.0	9.5	8.0	6.0	7.0	6.5	10.0	9.5
27	12.0	11.5	6.0	5.5	9.5	7.5	6.5	5.5	7.5	6.5	9.5	9.0
28	12.0	10.0	6.5	6.0	8.0	8.0	5.5	5.0	7.0	6.5	9.5	9.0
29	10.0	9.0	6.5	6.0	8.0	8.0	6.5	5.5	---	---	9.0	7.0
30	10.0	9.0	6.5	6.5	8.5	8.0	6.0	5.5	---	---	7.0	5.5
31	10.0	9.5	---	---	8.0	7.0	6.0	5.5	---	---	6.0	5.0
MONTH	16.5	8.0	12.5	5.5	10.0	6.5	8.5	5.0	10.0	3.0	10.5	5.0

11527000 TRINITY RIVER NEAR BURNT RANCH, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	5.0	11.5	10.0	15.5	14.0	17.0	15.5	20.0	18.5	19.5	16.5
2	6.0	5.5	11.5	10.0	15.0	13.5	16.5	15.5	19.5	17.5	18.0	16.0
3	6.0	5.5	11.5	10.0	13.5	12.5	16.0	14.5	19.0	17.5	19.0	17.5
4	7.0	6.0	13.5	10.0	13.5	12.5	16.5	14.5	20.0	16.5	19.5	15.5
5	7.0	6.5	14.0	11.0	14.5	12.5	18.0	15.0	21.0	16.5	22.0	16.0
6	7.0	6.0	13.5	12.0	14.5	12.5	18.5	16.0	23.0	18.0	22.5	17.5
7	7.0	6.0	13.5	12.0	15.5	13.0	17.5	16.0	21.5	19.5	22.5	17.5
8	10.0	7.0	12.0	11.5	18.0	14.0	19.0	16.0	22.0	17.5	23.0	17.5
9	11.5	9.0	12.0	10.5	18.5	15.5	19.5	17.0	21.0	18.5	21.5	17.5
10	10.5	10.0	11.0	9.5	18.0	16.0	20.5	17.5	21.0	18.0	20.5	17.5
11	10.0	9.5	12.5	10.0	17.5	16.0	21.0	18.0	21.0	18.5	20.5	15.0
12	9.5	9.5	12.5	11.0	16.0	14.5	20.5	18.5	22.5	18.0	19.5	15.5
13	9.5	9.5	13.5	11.5	16.5	14.5	20.5	18.0	22.5	18.5	20.5	17.0
14	9.5	8.5	13.0	12.0	19.0	15.0	20.5	19.0	21.5	18.0	20.0	15.0
15	9.5	8.5	13.0	11.5	20.0	17.0	19.5	18.0	21.5	17.0	19.0	14.0
16	10.0	8.5	13.0	11.5	20.5	17.5	21.0	17.5	21.5	17.0	17.5	14.0
17	10.5	8.5	13.0	12.0	21.0	18.0	22.0	18.5	21.5	17.0	16.0	14.5
18	11.0	9.5	12.5	11.5	19.5	18.0	22.0	18.5	23.0	17.5	15.5	14.5
19	11.0	9.0	14.5	11.5	19.5	18.0	22.5	19.0	21.5	18.5	15.0	14.0
20	12.0	9.5	14.5	12.5	19.0	18.0	22.0	19.0	22.5	18.0	17.0	14.0
21	13.0	10.0	15.0	13.5	19.0	17.5	22.0	18.5	23.5	18.0	18.0	15.0
22	13.0	10.5	15.0	13.5	20.0	17.5	22.5	18.5	24.5	19.0	18.5	14.5
23	12.5	11.0	16.5	14.0	19.5	18.0	22.5	19.0	24.0	19.5	18.5	14.5
24	12.5	11.0	19.0	15.0	19.0	18.0	22.5	19.5	27.0	19.0	18.5	17.0
25	12.0	11.0	17.5	16.0	18.5	17.5	21.0	19.0	22.5	19.0	17.0	16.0
26	11.5	10.5	17.5	15.5	18.0	17.5	23.0	19.5	22.5	18.0	16.5	13.5
27	12.0	10.5	15.5	13.0	17.5	16.0	23.0	19.5	21.5	17.5	14.5	13.5
28	12.0	10.5	15.0	13.0	16.0	16.0	22.5	19.5	20.0	17.5	14.5	13.5
29	12.0	10.5	16.0	13.0	17.0	16.0	23.5	19.0	19.0	17.5	14.5	12.5
30	12.0	10.5	16.5	14.0	16.5	15.5	23.0	20.0	20.5	17.0	15.0	11.0
31	---	---	15.5	15.0	---	---	22.0	19.5	20.0	17.0	---	---
MONTH	13.0	5.0	19.0	9.5	21.0	12.5	23.5	14.5	27.0	16.5	23.0	11.0

KLAMATH RIVER BASIN

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, Hydrologic Unit 18010212, 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 mi² (1,979 km²).

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) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--17 years, 1,455 ft³/s (41.21 m³/s), 1,054,000 acre-ft/yr (1.30 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 69,300 ft³/s (1,960 m³/s) Jan. 16, 1974, gage height, 26.68 ft (8.132 m), from rating curve extended above 23,000 ft³/s (651 m³/s) on basis of flood-routing study at gage height 30.45 ft (9.281 m); minimum daily, 14 ft³/s (0.40 m³/s) Aug. 24, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 30.45 ft (9.281 m), from floodmarks, discharge, 88,000 ft³/s (2,490 m³/s), on basis of flood-routing study.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 8,600 ft³/s (244 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 15	2000	16,300 462	14.32 4.365	Feb. 27	2400	11,100 314	12.15 3.703
Dec. 19	1930	*55,000 1,560	24.48 7.462	Apr. 11	2230	15,100 428	13.85 4.221
Feb. 16	0200	27,300 773	17.97 5.477				

Minimum daily, 70 ft³/s (1.98 m³/s) Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT.	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	313	1630	4970	2080	6420	2610	3140	895	490	167	102
2	73	268	1650	4480	2040	5210	2650	2980	859	468	160	101
3	72	234	1680	3970	2140	4560	3300	2820	820	462	153	97
4	71	209	1620	3790	2150	4120	3210	2670	796	441	151	96
5	70	191	1500	3530	2090	3780	2960	2530	784	421	151	95
6	77	176	1970	3230	2010	3570	2730	2440	755	405	148	94
7	135	165	2700	2980	1930	3490	2500	2390	731	389	144	92
8	164	158	2110	2780	1870	3400	2360	2290	710	379	142	90
9	142	152	2220	2680	1790	3380	2380	2150	674	360	141	90
10	170	150	3270	2610	1730	3550	3490	2030	647	353	137	90
11	180	163	2550	2630	1650	3940	13200	1910	623	339	133	90
12	161	283	2550	2630	1560	3570	11000	1810	615	326	131	91
13	134	719	3650	2530	2860	3250	9760	1720	598	321	129	93
14	119	2590	4680	2430	11600	3080	11400	1660	581	311	125	94
15	110	7490	4760	2370	13500	2870	7680	1590	555	298	122	95
16	105	11000	4050	2300	18700	2770	5980	1540	560	291	120	95
17	100	8200	3240	2270	9950	2630	5160	1500	570	285	118	95
18	97	4120	8100	2310	6880	2490	4900	1460	585	278	116	101
19	95	2300	35400	2250	8670	2350	4740	1400	580	266	113	113
20	94	1610	27900	2200	6930	2200	4770	1350	570	256	111	121
21	93	2080	15400	2120	6030	2100	4850	1320	562	247	108	116
22	92	2540	8650	1970	5050	2000	4950	1280	558	240	107	111
23	91	4550	5760	2000	4400	1930	5080	1260	545	234	105	106
24	90	5140	4490	2570	3920	1850	4880	1220	540	225	102	103
25	90	3630	3880	2660	3550	1810	4520	1200	580	219	99	100
26	88	3010	3730	2640	3200	1780	4250	1170	558	213	97	99
27	106	2830	3800	2390	5530	1730	3930	1110	720	207	96	99
28	521	2420	3600	2250	8980	1850	3710	1050	618	201	96	99
29	860	2100	4640	2190	---	1850	3460	1010	565	192	99	99
30	559	1790	5510	2120	---	1990	3270	956	532	185	101	99
31	385	---	4960	2090	---	2800	---	922	---	175	102	---
TOTAL	5222	70581	181650	83940	142790	92320	149680	53878	19286	9477	3824	2966
MEAN	168	2353	5860	2708	5100	2978	4989	1738	643	306	123	98.9
MAX	860	11000	35400	4970	18700	6420	13200	3140	895	490	167	121
MIN	70	150	1500	1970	1560	1730	2360	922	532	175	96	90
AC-FT	10360	140000	360300	166500	283200	183100	296900	106900	38250	18800	7580	5880

CAL YR 1981	TOTAL	512071	MEAN	1403	MAX	35400	MIN	30	AC-FT	1016000
WTR YR 1982	TOTAL	815614	MEAN	2235	MAX	35400	MIN	70	AC-FT	1618000

WATER-QUALITY RECORDS

SEDIMENT RECORDS: Water years 1967-70, December 1980 to April 1982.

SEDIMENT RECORDS: October 1966 to September 1970, December 1980 to September 1981.

SEDIMENT DISCHARGE: Maximum daily, 623,000 tons (565,000 metric tons) Jan. 24, 1970; minimum daily, 0.08 ton (0.07 metric ton) Sept. 22, 1981.

SHRIMPEN DISCHARGE: Maximum daily, 255,000 tons (411,000 metric tons; Dec. 15; maximum daily, 3.15 ton (0.17 metric tons) Oct. 3-5.

[illegible]

KLAMATH RIVER BASIN

11528700 SOUTH FORK TRINITY RIVER BELOW HYAMPOM, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), OCTOBER 1981 TO APRIL 1982

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	78	1	.21	313	15	13	1630	19	84
2	73	1	.20	268	11	8.0	1650	4	18
3	72	1	.19	234	7	4.4	1680	12	54
4	71	1	.19	209	4	2.3	1620	11	48
5	70	1	.19	191	3	1.5	1500	6	24
6	77	1	.21	176	2	.95	1970	102	669
7	135	4	1.5	165	2	.89	2700	101	736
8	164	3	1.3	158	2	.85	2110	34	194
9	142	2	.77	152	2	.82	2220	88	627
10	170	4	1.8	150	2	.81	3270	90	795
11	180	4	1.9	163	2	.88	2550	35	241
12	161	2	.87	283	8	7.0	2550	38	262
13	134	2	.72	719	29	65	3650	97	1070
14	119	2	.64	2590	145	997	4680	168	2120
15	110	2	.59	7490	821	28600	4760	105	1350
16	105	2	.57	11000	555	16500	4050	66	722
17	100	2	.54	8200	305	6750	3240	44	385
18	97	2	.52	4120	180	2000	8100	360	14000
19	95	2	.51	2300	125	776	35400	2110	233000
20	94	2	.51	1610	63	274	27900	1830	138000
21	93	2	.50	2080	155	870	15400	1150	47800
22	92	2	.50	2540	45	309	8650	800	18700
23	91	2	.49	4550	265	3520	5760	520	8090
24	90	1	.24	5140	130	1800	4490	360	4360
25	90	1	.24	3630	97	951	3880	290	3040
26	88	1	.24	3010	76	618	3730	232	2340
27	106	2	.57	2830	52	397	3800	216	2220
28	521	45	70	2420	54	353	3600	200	1940
29	860	37	86	2100	50	284	4640	399	5290
30	559	24	36	1790	41	198	5510	395	5880
31	385	19	20	---	---	---	4960	248	3320
TOTAL	5222	---	228.71	70581	---	65303.40	181650	---	497379

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4970	182	2440	2080	17	95	6420	275	4770
2	4480	115	1390	2040	14	77	5210	200	2810
3	3970	102	1090	2140	12	69	4560	175	2150
4	3790	93	952	2150	15	87	4120	167	1860
5	3530	88	839	2090	15	85	3780	160	1630
6	3230	83	724	2010	14	76	3570	152	1470
7	2980	80	644	1930	13	68	3490	142	1340
8	2780	73	548	1870	12	61	3400	133	1220
9	2680	69	499	1790	9	43	3380	118	1080
10	2610	60	423	1730	9	42	3550	120	1150
11	2630	45	320	1650	10	45	3940	110	1170
12	2630	32	227	1560	10	42	3570	82	790
13	2530	26	178	2860	169	2010	3250	71	623
14	2430	23	151	11600	1000	31900	3080	59	491
15	2370	20	128	13500	700	28300	2870	48	372
16	2300	17	106	18700	1020	55100	2770	35	262
17	2270	14	86	9950	560	15000	2630	34	241
18	2310	13	81	6880	380	7060	2490	33	222
19	2250	13	79	8670	489	11700	2350	32	203
20	2200	13	77	6930	190	3560	2200	30	178
21	2120	13	74	6030	140	2280	2100	28	159
22	1970	13	69	5050	120	1640	2000	27	146
23	2000	12	65	4400	118	1400	1930	24	125
24	2570	112	842	3920	112	1190	1850	19	95
25	2660	118	847	3550	105	1010	1810	14	68
26	2640	138	984	3200	100	864	1780	17	82
27	2390	97	626	5530	377	7680	1730	20	93
28	2250	53	322	8980	490	11900	1850	40	200
29	2190	28	166	---	---	---	1850	40	200
30	2120	21	120	---	---	---	1990	48	258
31	2090	19	107	---	---	---	2800	100	756
TOTAL	83940	---	15204	142790	---	183384	92320	---	26214

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2610	73	514	3140			895		
2	2650	78	558	2980			859		
3	3300	128	1140	2820			820		
4	3210	128	1110	2670			796		
5	2960	111	887	2530			784		
6	2730	92	678	2440			755		
7	2500	71	479	2390			731		
8	2360	49	312	2290			710		
9	2380	36	231	2150			674		
10	3490	319	4110	2030			647		
11	13200	1130	39700	1910			623		
12	11000	560	17600	1810			615		
13	9760	634	17600	1720			598		
14	11400	1230	38800	1660			581		
15	7680	590	12200	1590			555		
16	5980	220	3550	1540			560		
17	5160	135	1880	1500			570		
18	4900	127	1680	1460			585		
19	4740	127	1630	1400			580		
20	4770	127	1640	1350			570		
21	4850	127	1660	1320			562		
22	4950	128	1710	1280			558		
23	5080	130	1780	1260			545		
24	4880	112	1480	1220			540		
25	4520	94	1150	1200			580		
26	4250	73	838	1170			558		
27	3930	49	520	1110			720		
28	3710	37	371	1050			618		
29	3460	29	271	1010			565		
30	3270	23	203	956			532		
31	---	---	---	922			---		
TOTAL	149680	---	156282	53878			19286		

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED.	SED.	SED.	SED.	SED.	
						SUSP. FALL DIAM. % FINER THAN .002 MM	SUSP. FALL DIAM. % FINER THAN .004 MM	SUSP. FALL DIAM. % FINER THAN .008 MM	SUSP. FALL DIAM. % FINER THAN .016 MM	SUSP. FALL DIAM. % FINER THAN .031 MM	
NOV 14...	1330	2970	11.0	116	430	--	--	--	--	--	
DEC 19...	1400	38100	9.5	2390	246000	--	25	37	51	65	
21...	1705	13200	9.0	1740	62000	12	18	25	33	42	
FEB 16...	1030	19100	7.0	1080	55700	19	26	36	47	58	
MAR 10...	1320	3660	8.5	82	810	--	--	--	--	--	
DATE	TIME	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
NOV 14...	--	74	--	83	--	94	--	100	--	--	
DEC 19...	78	--	93	--	99	--	99	--	100	--	
21...	--	52	--	65	--	87	--	98	--	100	
FEB 16...	66	--	79	--	96	--	100	--	--	--	
MAR 10...	--	54	--	60	--	73	--	90	--	100	

KLAMATH RIVER BASIN

11529000 SOUTH FORK TRINITY RIVER NEAR SALYER, CA

LOCATION.--Lat 40°50'05", long 123°34'00", in SE¼ sec.1, T.5 N., R.5 E., Humboldt County, Hydrologic Unit 18010212, on right bank at downstream side of bridge on Louisiana-Pacific Logging Road, 30 ft (9 m) upstream from Ammon Creek and 4.0 mi (6.4 km) south of Salyer.

DRAINAGE AREA.--898 mi² (2,326 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1911 to September 1913, October 1950 to September 1965, December 1980 to current year. Monthly discharge only 1912-13, seasonal record only Dec. 1, 1980, to Apr. 30 1981, and October 1981 to Apr. 30, 1982. Published as "Near China Flat" 1912-13.

GAGE.--Nonrecording gage and crest-stage gage. Altitude of gage is 570 ft (174 m), from topographic map. October 1911 to September 1913, nonrecording gage at site 6.8 mi (10.9 km) downstream at different datum. October 1950 to September 1965, water-stage recorder at site 0.8 mi (1.3 km) downstream at different datum.

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

AVERAGE DISCHARGE.--17 years (water years 1912-1913, 1951-1965) 1,765 ft³/s (50.0 m³/s), 1,279,000 acre-ft/yr (1.58 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 95,400 ft³/s (2,700 m³/s) Dec. 22, 1964, gage height 47.6 ft (14.51 m), from floodmarks, site and datum then in use, from rating curve extended above 21,000 ft³/s (595 m³/s) by slope-conveyance study; minimum daily, 54 ft³/s (1.53 m³/s) Sept. 10, 1955.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 10,000 ft³/s (283 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 15	Unknown	21,000	595	Unknown	Feb. 16	Unknown	40,000 1,130
Dec. 19	Unknown	*70,000	1,980	Unknown	Feb. 28	Unknown	16,000 453
Dec. 30	Unknown	11,500	326	Unknown	Apr. 11	Unknown	25,000 708

Minimum daily, 88 ft³/s (2.49 m³/s) Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	660	2630	9500	2810	11200	3580					
2	94	520	2780	7430	2670	9290	3170					
3	92	425	2850	5480	2710	8080	3790					
4	90	355	2630	5040	2760	7250	3950					
5	88	289	2330	4550	2710	6700	3790					
6	95	269	2710	4060	2580	6200	3620					
7	180	250	4390	3760	2450	5860	3300					
8	220	231	3390	3510	2240	5650	3020					
9	180	216	3370	3400	2170	5510	2900					
10	230	210	4970	3350	2090	5590	8000					
11	258	231	3940	3450	2010	5510	22000					
12	220	426	3690	3450	1900	4680	16800					
13	185	983	4340	3380	7000	4390	12300					
14	166	3400	6670	3300	18000	4120	15400					
15	158	10000	6530	3050	21000	3890	12300					
16	149	14800	6280	2950	31500	3680	11500					
17	139	9400	4500	2950	20000	3560	8700					
18	133	5790	15000	3100	11700	3370	7700					
19	129	4060	48500	3230	18000	3160	6750					
20	127	3100	42500	3030	14500	2960	6150					
21	121	3610	32500	2860	11600	2780	5900					
22	118	4160	25000	2540	9200	2650	6150					
23	114	6530	18500	2530	7600	2510	6600					
24	111	8160	13500	2700	6480	2370	6100					
25	110	6670	9800	4270	5920	2300	5700					
26	110	5560	7430	4050	5510	2200	5250					
27	300	4390	7030	3870	5590	2110	4950					
28	780	3760	5640	3730	13600	2010	4630					
29	1900	3350	8250	3370	---	2400	4380					
30	1250	2920	9920	3080	---	3440	4120					
31	900	---	8680	2900	---	3630	---					
TOTAL	8843	104725	320250	117870	236300	139050	212500					
MEAN	285	3491	10330	3802	8439	4485	7083					
MAX	1900	14800	48500	9500	31500	11200	22000					
MIN	88	210	2330	2530	1900	2010	2900					
AC-FT	17540	207700	635200	233800	468700	275800	421500					

11529000 SOUTH FORK TRINITY RIVER NEAR SALYER, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957-65, 1981.

WATER TEMPERATURES: Water years 1957-65, December 1980 to April 1981, October 1981 to May 1982.

SEDIMENT RECORDS: Water years 1957-65, December 1980 to April 1981, October 1981 to April 1982.

TURBIDITY: December 1980 to April 1981, October 1981 to May 1982.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: November 1956 to September 1965.

SEDIMENT RECORDS: November 1956 to September 1965.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 25.5°C July 26, 27, 1964; minimum recorded, 1.5°C Jan. 2, 3, 1963.

TEMPERATURE (DEG. C) OF WATER, OCTOBER 1981 TO MAY 1982
ONCE-DAILY

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

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, OCTOBER 1981 TO APRIL 1982

DATE	TIME	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
NOV							
14...	1100	10.5	278	--	--	--	--
DEC							
29...	1305	8.5	639	25	31	42	54
FEB							
24...	1730	80.0	106	--	--	--	--
MAR							
11...	1110	9.0	96	--	--	--	--

KLAMATH RIVER BASIN

11529000 SOUTH FORK TRINITY RIVER NEAR SALYER, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, OCTOBER 1981 TO APRIL 1982

DATE	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
NOV 14...	--	72	84	93	99	100	--
DEC 29...	67	77	88	95	99	100	--
FEB 24...	--	78	86	92	97	100	--
MAR 11...	--	64	71	79	86	92	100

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY
OCTOBER 1981 TO MAY 1982

DATE	TIME	TEMPER- ATURE (DEG C)	SEDIM- ENT, SUS- PENDED (MG/L)	TUR- BID- ITY (NTU)
OCT				
06...	1510	--	1	1.0
11...	2145	--	7	1.0
26...	1745	--	6	2.0
NOV				
05...	1155	--	2	1.0
08...	1930	--	9	1.0
11...	1840	--	4	1.0
12...	0745	--	15	1.0
12...	1850	--	21	2.0
13...	1720	--	155	50
14...	1100	10.5	278	50
15...	1035	--	230	40
19...	1645	--	97	24
20...	1705	--	94	17
21...	1700	--	99	14
21...	2115	--	70	13
23...	1700	--	430	70
24...	1805	--	191	50
28...	1420	--	44	13
DEC				
01...	1300	--	20	5.0
01...	1510	--	27	2.0
02...	1310	--	24	4.0
03...	1720	--	23	5.0
07...	1655	--	78	21
08...	1715	--	39	4.0
11...	2230	--	47	12
12...	1240	--	46	13
13...	1035	--	92	20
14...	1700	--	100	25
17...	2250	--	62	13
26...	1650	--	432	110
27...	2230	--	276	80
28...	1700	--	194	60
29...	1305	8.5	639	160
JAN				
02...	1700	--	152	23
03...	0740	--	138	36
04...	1830	--	131	31
05...	1150	--	102	29

11529000 SOUTH FORK TRINITY RIVER NEAR SALYER, CA--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY,
OCTOBER 1981 TO MAY 1982

DATE	TIME	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	TUR- BID- ITY (NTU)
JAN				
06...	2225	--	78	22
07...	1655	--	74	18
08...	2240	--	53	16
09...	1715	--	48	16
16...	1700	--	28	10
17...	1935	--	36	11
18...	1710	--	50	17
20...	0805	--	34	12
21...	1700	--	34	10
22...	0745	--	23	7.0
22...	2015	--	28	9.0
23...	1650	--	36	10
24...	1905	--	24	10
27...	1512	--	122	26
27...	1635	--	82	17
28...	1700	--	88	18
29...	1725	--	46	13
30...	1700	--	39	8.0
31...	2025	--	46	8.0
FEB				
01...	1655	--	34	8.0
03...	1725	--	35	8.0
04...	1515	--	28	6.0
05...	2130	--	35	8.0
07...	1605	--	21	4.0
11...	1700	--	31	6.0
12...	1715	--	21	3.0
23...	1830	--	147	37
24...	1730	80.0	106	33
25...	1700	--	83	27
26...	1700	--	79	26
27...	1700	--	71	23
28...	0900	--	62	21
MAR				
04...	1845	--	50	11
05...	1700	--	94	24
10...	2230	--	119	32
11...	1110	9.0	96	28
13...	1115	--	48	14
17...	1040	--	34	12
23...	1630	--	27	7.0
26...	1530	--	19	5.0
29...	2230	--	99	37
31...	2215	--	08	29
APR				
02...	1125	--	76	23
03...	2200	--	79	16
05...	1410	--	70	17
06...	2205	--	30	10
MAY				
06...	0930	--	55	12

KLAMATH RIVER BASIN

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, Hydrologic Unit 18010211, in Hoopa Valley Indian Reservation, on left bank at Hoopa, 0.4 mi (0.6 km) upstream from Supply Creek.

DRAINAGE AREA.--2,853 mi² (7,389 km²).

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. WDR CA-77-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 274.82 ft (83.765 m) National Geodetic Vertical Datum of 1929. 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 since November 1960 by Clair Engle Lake (station 11525400) 84 mi (135 km) upstream. Small diversions above station for mining and irrigation.

AVERAGE DISCHARGE (unadjusted).--55 years (water years 1912-13, 1917-18, 1932-82), 5,268 ft³/s (149.2 m³/s), 3,817,000 acre-ft/yr (4.71 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 231,000 ft³/s (6,540 m³/s) Dec. 22, 1964, gage height, 57.0 ft (17.37 m) present site and datum, from floodmarks; minimum, 162 ft³/s (4.59 m³/s) Oct. 4, 1931.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 22,000 ft³/s (623 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 16	0100	42,300 1,200	29.23 8.909	Feb. 16	0700	58,700 1,660	32.66 9.955
Dec. 20	0215	*104,000 2,950	40.46 12.332	Mar. 1	2115	28,900 818	25.95 7.910
Dec. 30	0545	24,800 702	24.80 7.559	Apr. 14	0830	33,700 954	27.19 8.288

Minimum daily, 614 ft³/s (17.39 m³/s) Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	769	1910	5630	20000	7470	20500	9020	9890	3960	2450	1270	1080
2	706	1750	5980	18100	7240	25200	8480	9190	3900	2440	1240	1060
3	638	1570	6670	15800	7220	20800	10100	8800	3830	2430	1220	1020
4	625	1430	6480	14500	7310	18200	10700	8540	3720	2280	1210	981
5	614	1330	6070	12800	5860	16200	9900	8160	3610	2180	1190	849
6	632	1230	8440	11100	5060	14600	9390	8020	3440	2110	1180	827
7	1020	1180	12600	10100	6500	13500	8760	8120	3320	2090	1170	818
8	1330	1120	9420	9090	6260	12200	8280	7890	3230	2070	1180	801
9	1060	1070	8210	7720	6260	11500	8210	7380	3180	2000	1160	794
10	1700	1040	9830	7140	6100	10400	9130	6850	3190	1950	1140	787
11	1800	1110	8820	7190	5750	10200	25200	6450	3270	1930	1130	782
12	1260	1850	8170	7370	5270	9090	29100	6210	3240	1930	1120	782
13	1020	3600	10300	7140	6730	8370	25300	6180	3110	1920	1110	786
14	897	7960	17100	6990	28400	8010	31900	6190	3030	1880	1080	787
15	830	15200	17200	6880	34500	7680	25000	6120	3100	1820	1080	779
16	785	35900	14700	6800	49900	7530	19200	5980	3100	1740	1070	773
17	757	30600	11800	6790	36600	7310	16100	5950	3150	1700	1060	794
18	735	16500	16500	7250	26500	6960	14300	5870	3220	1660	1050	861
19	719	10200	65600	7230	29000	6660	13300	5560	3150	1640	1040	941
20	707	8150	80300	7130	28300	6340	13000	5430	3090	1600	1020	949
21	695	8430	54500	6910	27700	6160	13200	5470	2930	1590	1010	922
22	694	10600	38600	6460	24400	5970	13500	5630	2900	1550	997	897
23	681	12700	28900	6490	19500	5790	14200	5640	2730	1490	989	870
24	675	15700	23200	6610	17700	5630	14100	5550	2690	1470	974	854
25	675	11700	19800	6660	16000	5500	13700	5750	2810	1450	954	839
26	668	10100	19300	8400	14500	5460	12900	5770	2710	1410	946	840
27	713	9640	22000	9710	13600	5350	12100	5230	3550	1370	940	865
28	2230	8280	19300	9510	12100	5770	11600	4680	3010	1350	940	865
29	3850	7070	20900	8820	---	5790	11000	4330	2760	1320	972	863
30	2900	6170	23900	8170	---	6340	10400	4100	2680	1310	984	837
31	2150	---	21400	7770	---	8710	---	3990	---	1300	993	---
TOTAL	34535	245090	621620	282630	461730	307720	431070	198920	95610	55430	33419	25903
MEAN	1114	8170	20050	9117	16490	9926	14370	6417	3187	1788	1078	863
MAX	3850	35900	80300	20000	49900	25200	31900	9890	3960	2450	1270	1080
MIN	614	1040	5630	6460	5060	5350	8210	3990	2680	1300	940	773
AC-FT	68500	486100	1233000	560600	915800	610400	855000	394600	189600	109900	66290	51380
CAL YR 1981 TOTAL	1774033			MEAN 4860	MAX 80300	MIN 460	AC-FT 3519000					
WTR YR 1982 TOTAL	2793677			MEAN 7654	MAX 80300	MIN 614	AC-FT 5541000					

11530000 TRINITY RIVER AT HOOPA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.

CHEMICAL ANALYSES: Water years 1951-81.

WATER TEMPERATURES: Water years 1957 to current year.

SEDIMENT RECORDS.--Water years 1955 to September 1979.

Prior to October 1964, published as "near Hoopa."

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: November 1956 to current year.

SEDIMENT RECORDS: November 1956 to September 1979.

REVISED RECORDS.--WDR CA-70-2: 1969, sediment.

INSTRUMENTATION.--Temperature recorder since March 1964.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 28.0°C July 16, 1977; minimum recorded, 1.5°C Jan. 9, 1977, Jan. 1, 1979.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 24.0°C July 24, 30; minimum recorded, 4.5°C Jan. 7, 8.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

11530000 TRINITY RIVER AT HOOPA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	6.0	12.5	11.5	17.0	14.5	20.0	17.0	22.5	19.5	21.0	18.5
2	7.0	6.5	13.0	11.5	17.0	14.0	19.0	17.5	21.5	19.0	20.5	18.5
3	7.0	6.5	13.5	11.5	16.0	14.0	19.0	16.5	21.0	18.5	20.0	18.5
4	8.0	6.5	14.0	12.0	15.0	13.5	19.0	16.5	21.5	18.5	20.5	18.0
5	7.5	7.0	14.0	12.0	16.0	13.0	20.0	16.5	22.0	18.5	20.5	18.0
6	7.5	6.5	14.5	12.5	16.5	13.5	20.5	17.5	23.0	19.0	21.0	19.0
7	8.0	6.5	14.5	13.0	17.5	14.0	20.0	17.5	22.5	19.5	21.0	19.0
8	9.5	7.5	13.5	12.0	18.5	14.5	20.0	16.5	23.0	20.5	21.0	19.0
9	10.0	8.5	13.5	11.5	19.0	15.5	20.5	17.5	22.0	19.5	20.5	19.0
10	9.5	9.0	13.5	11.5	19.5	16.0	21.5	18.0	22.0	19.5	20.5	19.0
11	9.0	8.0	14.0	11.5	18.0	16.5	22.0	18.5	22.5	20.0	20.0	17.0
12	8.5	7.5	14.5	12.0	18.0	15.0	22.0	19.0	22.5	20.0	19.5	18.0
13	8.5	8.0	15.0	13.0	19.0	15.0	22.5	19.0	22.5	19.5	20.0	18.0
14	8.5	8.0	15.0	13.0	20.0	16.0	22.5	19.5	22.5	19.5	19.5	17.0
15	8.5	7.5	15.0	13.0	21.0	17.5	21.5	19.0	22.0	19.0	19.0	16.5
16	9.5	8.0	15.0	12.5	21.5	18.5	21.5	18.5	21.5	18.5	18.0	16.0
17	10.0	9.0	14.0	12.5	22.0	19.0	22.5	19.0	22.0	19.0	18.5	16.0
18	10.5	9.0	15.0	12.0	22.5	19.5	23.0	19.5	22.0	19.0	17.5	16.0
19	10.5	9.0	15.5	12.5	22.0	19.0	23.5	19.0	22.5	20.0	17.0	16.0
20	11.0	9.5	16.5	13.5	22.0	19.0	23.5	19.5	22.5	19.5	18.0	15.5
21	11.0	9.5	17.0	14.5	21.5	19.5	23.0	19.5	22.5	19.5	18.0	16.0
22	11.5	10.0	17.0	14.5	22.0	19.0	23.0	19.5	23.0	20.0	18.5	15.5
23	11.5	10.0	17.0	14.5	22.0	19.0	23.5	20.0	23.0	19.5	18.5	16.5
24	11.5	10.0	18.0	15.0	21.0	19.0	24.0	20.0	23.0	19.5	19.0	17.5
25	11.5	10.5	18.5	15.5	20.5	18.5	23.5	20.0	22.5	20.0	18.0	17.0
26	11.5	10.0	17.5	15.5	20.0	19.0	23.5	19.0	22.0	20.0	17.0	16.0
27	12.0	10.0	17.0	14.5	20.0	17.5	23.5	19.5	21.0	19.5	17.5	15.5
28	12.5	11.0	17.0	14.0	18.5	17.0	23.5	20.0	20.5	18.5	17.0	16.0
29	12.5	11.0	17.0	14.0	19.0	16.5	23.5	19.5	20.5	19.0	16.5	15.0
30	13.0	11.0	17.5	14.5	19.5	17.0	24.0	20.0	20.5	18.0	16.5	14.5
31	---	---	17.0	14.5	---	---	23.0	20.0	21.0	18.0	---	---
MONTH	13.0	6.0	18.5	11.5	22.5	13.0	24.0	16.5	23.0	18.0	21.0	14.5

11530020 SUPPLY CREEK AT HOOPA, CA

LOCATION.--Lat 41°03'06", long 123°40'47", in NW¼ sec.25, T.8 N., R.4 E., Hoopa Valley Indian Reservation, Humboldt County, Hydrologic Unit 18010211, on left bank at upstream side of bridge on Loop Road, 1,800 ft (550 m) upstream from mouth and 1.0 mi (1.6 km) downstream from Rock Creek.

DRAINAGE AREA.--15.8 mi² (40.9 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1981 to September 1982.

GAGE.--Water-stage recorder. Altitude of gage is 350 ft (107 m) from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,830 ft³/s (51.8 m³/s) Dec. 19, 1981, gage height, 4.46 ft (1.359 m); minimum daily, 4.6 ft³/s (0.13 m³/s) Oct. 5.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 750 ft³/s (21.24 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 19	2345	*1,830 51.8	4.46 1.359
Feb. 15	Unknown	950 26.9	Unknown
Apr. 13	2300	779 22.1	3.44 1.049

Minimum daily, 4.6 ft³/s (0.13 m³/s) Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	26	89	326	93	203	129	109	26	16	8.2	6.0
2	6.0	22	85	258	89	201	165	100	25	16	8.4	5.7
3	5.6	19	105	191	86	226	232	92	25	15	8.3	5.5
4	5.0	18	99	197	84	223	192	87	24	15	8.3	5.6
5	4.6	18	102	172	78	181	161	82	24	15	8.1	5.5
6	7.3	18	238	146	73	152	146	77	23	14	7.9	5.3
7	17	16	200	126	70	132	135	72	23	14	7.9	5.3
8	11	15	143	115	66	122	128	67	22	14	7.9	5.2
9	15	15	140	107	64	113	127	63	22	14	7.6	5.1
10	32	16	141	100	61	110	162	59	21	13	7.5	5.2
11	17	20	122	94	59	107	353	56	21	13	7.4	5.1
12	12	41	141	88	96	95	410	52	20	13	7.3	5.1
13	10	83	260	82	150	90	466	50	20	13	6.9	5.3
14	9.2	152	339	78	590	87	668	47	20	12	7.0	5.1
15	8.7	323	334	75	483	80	406	45	19	12	6.9	5.1
16	8.4	376	229	72	700	78	285	43	18	12	6.6	5.3
17	7.9	356	172	78	502	72	225	43	17	12	6.4	6.1
18	7.6	237	464	105	340	68	196	42	17	12	6.2	7.4
19	7.6	148	1320	101	375	65	179	40	17	11	6.1	8.4
20	7.4	131	902	94	325	62	175	38	16	11	5.9	8.0
21	7.3	190	524	87	423	59	179	36	16	10	5.9	8.0
22	7.0	207	423	81	343	56	181	35	16	10	5.9	7.7
23	7.0	234	311	114	257	54	180	33	15	9.9	5.6	7.4
24	7.0	218	232	119	198	52	173	32	16	9.9	5.5	7.2
25	7.0	163	187	115	166	50	160	32	15	9.7	5.6	7.3
26	6.7	193	341	202	143	49	146	31	20	9.4	5.5	7.6
27	14	179	401	175	128	51	132	31	19	9.1	5.7	8.0
28	77	132	309	146	117	60	127	30	18	9.0	5.7	7.8
29	85	110	454	124	---	60	121	30	17	9.0	6.3	8.2
30	56	96	432	109	---	100	115	29	16	8.6	6.3	7.9
31	35	---	360	101	---	187	---	27	---	8.4	6.1	---
TOTAL	514.7	3772	9599	3978	6159	3245	6454	1610	588	370.0	210.9	192.4
MEAN	16.6	126	310	128	220	105	215	51.9	19.6	11.9	6.80	6.41
MAX	85	376	1320	326	700	226	668	109	26	16	8.4	8.4
MIN	4.6	15	85	72	59	49	115	27	15	8.4	5.5	5.1
AC-FT	1020	7480	19040	7890	12220	6440	12800	3190	1170	734	418	382

WTR YR 1982 TOTAL 36693.0 MEAN 101 MAX 1320 MIN 4.6 AC-FT 72780

KLAMATH RIVER BASIN

11530020 SUPPLY CREEK AT HOOPA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1981 to August 1982.

SEDIMENT RECORDS: November 1981 to August 1982.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. & FINER THAN .002 MM	SED. SUSP. FALL DIAM. & FINER THAN .004 MM	SED. SUSP. FALL DIAM. & FINER THAN .008 MM
DEC								
01...	0950	88	8.5	3	.71	--	--	--
22...	1640	408	9.0	162	178	--	--	--
JAN								
05...	1200	172	7.5	22	10	--	--	--
FEB								
01...	1350	93	7.0	2	.50	--	--	--
14...	0840	649	8.5	608	1070	--	--	--
MAR								
11...	1410	107	10.0	4	1.2	--	--	--
APR								
11...	2330	512	7.5	723	999	19	28	41
13...	2245	772	8.0	822	1710	7	12	18
15...	1330	377	9.5	119	121	--	--	--
JUN								
08...	1530	22	15.5	3	.18	--	--	--
30...	1030	17	14.5	1	.05	--	--	--

DATE	SED. SUSP. FALL DIAM. & FINER THAN .016 MM	SED. SUSP. FALL DIAM. & FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. & FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. & FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. & FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. & FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. & FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. & FINER THAN 2.00 MM
DEC								
01...	--	--	79	--	--	--	--	--
22...	--	--	28	31	38	49	63	85
JAN								
05...	--	--	68	--	--	--	--	--
FEB								
01...	--	--	69	--	--	--	--	--
14...	--	--	28	31	40	57	82	100
MAR								
11...	--	--	76	--	--	--	--	--
APR								
11...	55	66	71	76	81	88	96	100
13...	24	32	38	47	55	69	83	100
15...	--	--	37	--	--	--	--	--
JUN								
08...	--	--	50	--	--	--	--	--
30...	--	--	40	--	--	--	--	--

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, Hydrologic Unit 18010209, on right bank 0.2 mi (0.3 km) upstream from Turwar Creek, and 2.2 mi (3.5 km) southeast of Klamath.

DRAINAGE AREA.--12,100 mi² (31,340 km²), 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 National Geodetic Vertical Datum of 1929. Prior to June 1926, nonrecording gage at site 2.6 mi (4.2 km) upstream at different datum. June 1926 to Oct. 2, 1975, at site 2.6 mi (4.2 km) upstream at datum 5.60 ft (1.707 m) higher.

REMARKS.--Records fair. Flow generally affected by tide. Flow considerably regulated by reservoirs and powerplants above station. Large diversions for irrigation above station.

AVERAGE DISCHARGE.--48 years, 17,570 ft³/s (497.6 m³/s), 12,730,000 acre-ft/yr (15.7 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 557,000 ft³/s (15,800 m³/s) Dec. 23, 1964, gage height, 55.3 ft (16.86 m) former datum, from floodmarks, from rating curve extended above 230,000 ft³/s (6,510 m³/s) on basis of flood-routing study; minimum daily, 1,310 ft³/s (37.1 m³/s) Sept. 4, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 90,000 ft³/s (2,550 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 17	0845	128,000 3,620	22.22 6.773	Feb. 16	1415	195,000 5,520	26.13 7.964
Dec. 6	2230	90,600 2,570	19.52 5.950	Feb. 21	2200	168,000 4,760	24.69 7.526
Dec. 20	0800	*384,000 10,900	34.20 10.424	Mar. 2	0530	95,700 2,710	19.92 6.072
Dec. 27	0415	101,000 2,860	20.30 6.187	Apr. 14	1445	122,000 3,170	21.14 6.443

Minimum daily, 3,030 ft³/s (85.8 m³/s) Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3210	8120	21500	74300	29000	71600	36500	40100	17500	11400	4810	3990
2	3110	7680	26800	69100	27800	91200	35500	38200	16800	11200	4710	4090
3	3210	7200	29400	62200	27200	80400	43600	37000	16000	10800	4980	4220
4	3150	6690	28600	59300	27300	72600	45200	35800	15300	11100	4970	4190
5	3030	6250	28400	54700	26700	64700	41500	34300	14700	11400	4900	4130
6	3050	5800	62200	49100	25600	58600	40600	34000	14000	11400	4880	4040
7	5120	5500	77600	44300	24700	54300	38300	35600	13300	11200	4900	3980
8	6440	5300	54300	40200	23900	50100	35300	35400	12900	10700	4910	3900
9	6030	5100	43800	35900	23200	47100	33300	33200	13100	9700	4800	3940
10	9820	4950	47700	33200	22800	46300	34000	30500	13200	9110	4610	3910
11	9830	5240	42600	32500	22200	47400	57600	28500	13700	8560	4540	3910
12	8200	9840	39500	32000	21100	46500	87600	27300	13700	8120	4480	3870
13	6700	15900	51800	30500	24400	42900	82800	27200	13100	7930	4420	3860
14	5750	23700	84400	29400	99100	40700	108000	27500	12900	7730	4330	3880
15	5100	38500	99000	28800	124000	39300	92800	27200	13300	7190	4300	3970
16	4670	102000	80700	28100	174000	38200	73300	26500	13600	6360	4240	3930
17	4400	114000	60200	28000	148000	35700	63500	26500	13600	6170	4250	3980
18	4100	75900	59500	31000	111000	33300	57800	26500	13800	6100	4180	4170
19	3900	51000	204000	31700	117000	30600	53000	25100	14000	6040	4190	4340
20	3730	40800	339000	30200	121000	29000	50100	24200	13600	5930	4190	4460
21	3630	54000	217000	29200	148000	28600	50500	24900	13400	5810	4100	4420
22	3610	68000	146000	28300	148000	27700	50900	25800	12400	5610	4060	4410
23	3570	74000	108000	30000	111000	26700	53400	25600	11700	5500	4060	4300
24	3560	62000	84600	30000	91000	26000	54200	25000	11100	5430	4010	4130
25	3530	53000	70300	29500	78500	25000	51400	26600	11000	5370	3990	4120
26	3390	47500	75200	35600	68900	24200	48700	28500	10900	5230	3890	4260
27	3470	42400	92900	41400	63700	24300	46000	25400	13300	5140	3790	4320
28	7510	35000	76900	38200	57400	26300	43300	22000	12500	5050	3870	4410
29	15300	29600	83300	35100	---	27000	41900	19400	11400	4960	3960	4360
30	12700	25000	94200	32200	---	28400	40400	18300	11400	4890	4000	4240
31	9550	---	79700	30300	---	36500	---	17800	---	4880	3990	---
TOTAL	172370	1029970	2609100	1184300	1986500	1321200	1591000	879900	401200	236010	135310	123730
MEAN	5560	34330	84160	38200	70950	42620	53030	28380	13370	7613	4365	4124
MAX	15300	114000	339000	74300	174000	91200	108000	40100	17500	11400	4980	4460
MIN	3030	4950	21500	28000	21100	24200	33300	17800	10900	4880	3790	3860
AC-FT	341900	2043000	5175000	2349000	3940000	2621000	3156000	1745000	795800	468100	268400	245400
CAL YR 1981 TOTAL	6911740			MEAN 18940	MAX 339000	MIN 2300	AC-FT 13710000					
WTR YR 1982 TOTAL	11670590			MEAN 31970	MAX 339000	MIN 3030	AC-FT 23150000					

KLAMATH RIVER BASIN

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.

CHEMICAL ANALYSES: Water years 1951 to current year.

BIOLOGICAL DATA: Water years 1975-81.

SPECIFIC CONDUCTANCE: Water years 1975-81.

WATER TEMPERATURES: Water years 1966-81.

SEDIMENT RECORDS: Water years 1955-56, 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1981.

WATER TEMPERATURES: November 1965 to September 1981.

INSTRUMENTATION.--Temperature recorder from November 1965 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 27.0°C Sept. 12, 1979; minimum recorded, 2.5°C Feb. 2, 1972.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)
NOV 19...	1130	48400	129	6.6	9.5	44	11.4	150	K1000	57	2
JAN 27...	1230	41700	139	8.0	7.0	51	12.0	K17	K24	56	0
MAR 24...	1245	25800	162	8.0	10.5	28	11.1	K3	88	69	0
MAY 13...	1215	27200	117	7.9	13.5	13	10.4	K8	K12	52	0
JUL 19...	1300	6020	168	8.1	21.5	1.6	8.4	K1	52	77	4
SEP 07...	1540	3890	201	8.3	20.5	1.9	9.5	K4	K4	79	0

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
NOV 19...	13	5.9	3.2	11	.2	.8	55	<5.0	2.7	.1
JAN 27...	13	5.8	4.1	13	.2	.9	56	<5.0	2.1	<.1
MAR 24...	16	7.1	5.9	15	.3	1.2	69	<5.0	2.6	.1
MAY 13...	12	5.4	3.7	13	.2	.8	56	<5.0	1.8	<.1
JUL 19...	18	7.7	6.1	15	.3	1.2	73	8.0	3.2	<.1
SEP 07...	18	8.2	10	21	.5	1.6	84	12	4.5	<.1

DATE	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+N03 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
NOV 19...	15	71	--	.10	.10	<.06	1.0	.04	.01	.04
JAN 27...	16	80	--	.11	.12	.07	.0	.02	.02	.03
MAR 24...	19	96	--	.13	.15	.08	.82	.04	.03	.05
MAY 13...	15	72	--	.10	<.10	<.06	1.6	.07	.03	.03
JUL 19...	16	98	108	.13	<.10	<.06	.7	.04	.03	.02
SEP 07...	19	120	125	.16	<.10	<.06	1.1	.06	.09	.04

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

< Actual value is known to be less than the value shown.

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)
NOV 19...	1130	2	3	100	22	<1	<1	40	10	7
JAN 27...	1230	2	1	100	15	1	1	30	<10	4
MAY 13...	1215	1	2	100	16	<1	<3	10	10	1
SEP 07...	1540	3	4	<100	20	<1	<1	<10	<10	<1

DATE	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
NOV 19...	<3	25	4	11000	97	2	4	230	9	.5
JAN 27...	<3	15	2	5900	26	3	1	120	9	.2
MAY 13...	1	12	1	1600	54	4	1	20	<3	.1
SEP 07...	<1	3	<1	140	6	3	4	20	4	.1

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 19...	<.1	71	6	<1	<1	<1	<1	50	20
JAN 27...	<.1	35	6	<1	<1	<1	<1	40	12
MAY 13...	<.1	19	4	<1	<1	<1	<1	30	<12
SEP 07...	<.1	5	3	<1	<1	<1	<1	10	5

< Actual value is known to be less than the value shown.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
NOV 19...	1130	48400	9.5	142	18600	93	--	--	--	--
JAN 27...	1225	41700	7.0	260	29300	42	56	84	99	100
MAR 24...	1245	25800	10.5	137	9540	54	72	94	100	--

SMITH RIVER BASIN

11532500 SMITH RIVER NEAR CRESCENT CITY, CA
(National stream-quality accounting network station)

LOCATION.--Lat 41°47'22", long 124°03'14", in SW¼SW¼ sec.10, T.16 N., R.1 E. (unsurveyed), Del Norte County, Hydrologic Unit 18010101, 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 mi² (1,577 km²).

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) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--51 years, 3,840 ft³/s (108.7 m³/s), 2,782,000 acre-ft/yr (3.43 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 228,000 ft³/s (6,460 m³/s) Dec. 22, 1964, gage height, 48.5 ft (14.78 m), from floodmarks, from rating curve extended above 110,000 ft³/s (3,120 m³/s) on basis of slope-area measurement at gage height 39.51 ft (12.043 m); minimum daily, 160 ft³/s (4.53 m³/s) Oct. 24, 25, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 36,000 ft³/s (1,020 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 16	2245	63,400 1,800	27.91 8.507	Dec. 26	1430	47,000 1,330	25.24 7.693
Dec. 6	1015	78,600 2,230	30.26 9.223	Dec. 29	1645	41,200 1,170	24.21 7.380
Dec. 15	0445	63,700 1,800	27.97 8.525	Feb. 14	0600	*82,000 2,320	30.74 9.370
Dec. 19	1030	89,600 2,540	31.80 9.693	Apr. 13	1015	50,100 1,420	25.77 7.855

Minimum daily, 243 ft³/s (6.88 m³/s) Sept. 16, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	363	3100	5620	13400	4480	16100	6890	5330	1420	736	395	282
2	347	2450	11300	11300	4080	16900	8980	4890	1340	712	395	270
3	354	2000	10400	11000	3830	17600	13700	4620	1290	702	393	262
4	325	1700	7340	15700	3630	14700	9840	4460	1390	675	391	263
5	315	1490	16200	12300	3340	10500	8130	4300	1320	657	384	265
6	1590	1340	52600	8770	3070	8010	7830	4570	1200	632	372	262
7	4560	1210	25800	6980	2850	6640	6760	4740	1160	612	367	256
8	3550	1120	14900	5890	2650	5800	5900	4260	1130	602	363	253
9	6790	1040	13700	5290	2480	5770	5570	3610	1120	583	351	251
10	8230	1040	17800	5280	2330	5700	8050	3200	1130	571	354	260
11	3910	1860	12300	5570	2200	7630	28600	2970	1120	558	362	262
12	2320	10200	12700	5140	2080	6980	30500	2880	1090	549	365	258
13	1660	11800	26300	4600	13700	5590	41700	2900	1050	535	346	259
14	1310	11400	34900	4290	60500	4900	37900	2920	1020	526	335	254
15	1100	17700	42500	4080	37200	4400	20100	2720	1000	510	332	245
16	954	33800	18900	3860	44600	4140	12800	2520	987	498	325	243
17	851	40400	12100	4990	26900	3830	9840	2480	951	492	320	243
18	775	17500	15400	7730	16600	3680	8370	2370	917	485	317	250
19	712	10600	65200	6580	25000	3520	7490	2190	883	476	313	287
20	662	9870	42300	5520	18400	3330	7500	2200	874	463	308	288
21	619	17900	28300	4880	20500	3160	8380	2360	851	457	299	271
22	587	18900	17100	4580	14200	2990	8930	2430	797	446	296	261
23	554	20900	12100	11300	10200	2840	9140	2320	752	434	289	254
24	532	15800	9430	10500	7900	2710	8420	2370	732	428	285	248
25	508	12000	9140	8210	6530	2620	7580	2520	717	421	279	248
26	493	12700	26600	14600	5930	2570	6860	2320	855	418	279	277
27	590	10700	20500	11900	6210	2710	6120	1890	951	412	279	435
28	6610	7630	14400	8420	5810	3620	5910	1670	827	407	281	343
29	8960	5990	31300	6710	---	3810	5740	1560	841	404	285	303
30	6890	5010	23300	5680	---	5030	5420	1510	784	400	293	285
31	4110	---	15000	5010	---	9670	---	1480	---	399	291	---
TOTAL	71131	309150	665430	240060	357200	197450	358950	92560	30499	16200	10244	8138
MEAN	2295	10310	21470	7744	12760	6369	11970	2986	1017	523	330	271
MAX	8960	40400	65200	15700	60500	17600	41700	5330	1420	736	395	435
MIN	315	1040	5620	3860	2080	2570	5420	1480	717	399	279	243
AC-FT	141100	613200	1320000	476200	708500	391600	712000	183600	60490	32130	20320	16140

CAL YR 1981 TOTAL 1666679 MEAN 4566 MAX 65200 MIN 230 AC-FT 3306000
WTR YR 1982 TOTAL 2357012 MEAN 6458 MAX 65200 MIN 243 AC-FT 4675000

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.

BIOLOGICAL DATA: Water year 1978-81.

SPECIFIC CONDUCTANCE: Water years 1979-81.

WATER TEMPERATURES: Water years 1966-81.

SEDIMENT RECORDS: Water years 1955-56, November 1977 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1978 to September 1981.

WATER TEMPERATURES: October 1965 to September 1981.

SEDIMENT RECORDS: November 1977 to September 1979, October 1980 to September 1981.

INSTRUMENTATION.--Temperature recorder from October 1965 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 154 micromhos Sept. 24-26, 1981; minimum recorded, 62 micromhos Jan. 12, 1980.

WATER TEMPERATURES: Maximum recorded, 24.5°C July 15, 1972, July 26, 27, 1973; minimum recorded, 0.5°C Dec. 10, 11, 1972.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)
NOV 20...	1030	10300	98	7.5	10.5	2.8	11.0	25	32	44
JAN 28...	1015	8540	80	7.8	7.0	3.8	12.8	K9	K14	36
MAR 25...	1045	2630	98	7.7	9.5	.50	11.4	K1	80	45
MAY 14...	0930	3000	83	7.7	11.0	1.1	11.0	<1	45	38
JUL 20...	1045	462	134	7.4	20.5	.70	9.1	K2	60	63
SEP 08...	1100	252	151	8.1	22.5	.80	9.0	K1	23	70

DATE	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 20...	3	4.0	8.2	1.6	7	.1	.3	41	<5.0	2.6
JAN 28...	0	3.5	6.7	1.5	8	.1	.3	37	<5.0	1.7
MAR 25...	0	4.8	8.1	1.7	7	.1	.3	45	<5.0	1.9
MAY 14...	0	4.5	6.5	1.5	8	.1	.3	38	<5.0	1.7
JUL 20...	3	7.2	11	2.3	7	.1	.5	60	<5.0	2.5
SEP 08...	2	8.4	12	2.7	8	.1	.5	68	<5.0	2.9

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
NOV 20...	.3	14	49	.07	<.09	<.06	1.1	<.01	.01	<.02
JAN 28...	<.1	13	39	.05	<.09	<.07	.00	.04	<.01	.01
MAR 25...	.1	14	48	.07	<.10	.08	.25	.01	.01	.03
MAY 14...	<.1	13	42	.06	<.10	<.06	.57	<.01	<.01	.02
JUL 20...	<.1	13	76	.10	<.10	<.06	.69	.04	.03	.01
SEP 08...	<.1	14	88	.12	<.10	.09	.80	.04	.04	.01

K Results based on colony count outside the acceptable range (non-ideal colony count).
 < Actual value is known to be less than the value shown.

SMITH RIVER BASIN

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS HA)	BARIUM, DIS- SOLVED (UG/L AS HA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)
NOV 20...	1030	<1	2	<100	14	<1	<1	20	<10	<1
JAN 28...	1015	<1	<1	<100	10	1	1	20	<10	1
MAY 14...	0930	<1	1	100	9	<1	<3	20	10	<1
SEP 08...	1100	1	2	<100	22	<1	1	<10	10	<1

DATE	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
NOV 20...	<3	4	3	450	29	3	6	10	2	.1
JAN 28...	<3	5	<1	220	31	3	<1	<10	1	.1
MAY 14...	<1	6	1	40	10	3	<1	<10	<3	.2
SEP 08...	<1	2	<1	10	5	5	1	10	2	.3

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 20...	<.1	12	10	<1	<1	<1	<1	20	4
JAN 28...	.1	13	6	<1	<1	<1	<1	20	7
MAY 14...	<.1	9	6	<1	<1	<1	<1	30	<12
SEP 08...	<.1	14	7	<1	1	<1	<1	10	7

< Actual value is known to be less than the value shown.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 20...	1030	10300	10.5	18	501	45
MAR 25...	1045	2630	9.5	2	14	87
MAY 14...	1145	2990	11.0	4	32	44

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low- or flood-flow analyses, depending on the type of data collected.

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations and the second is a table of annual maximum discharge at crest-stage stations.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of the stream. The column headed "Period of record" shows the water years in which measurements were made at the same or practically the same site.

Discharge measurements made at low-flow partial-record stations during water year 1982

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Measurements	
					Date	Discharge (ft ³ /s)
		Klamath River basin				
11525520	Deadwood Creek at Lewiston, CA	Lat 40°43'02", long 122°48'04", in SW¼NW¼ sec.17, T.33 N., R.8 W., Trinity County, Hydrologic Unit 18010211, 300 ft (91 m) upstream from mouth and 0.7 mi (1.7 km) northeast of Lewiston.	9.10	1965-75 1976-82	10-7-80	a0.45
					12-31-80	a2.02
					10-14-81	0.80
					4-29-82	11.4
					8-30-82	0.68

a Not previously published.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1982

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Pescadero Creek basin						
Bradley Creek	Pescadero Creek	Lat 37°16'44", long 122°22'46", on eastern boundary of San Antonio or Pescadero Grant, San Mateo County on left bank of Stage Road, 1.8 mi (2.9 km) upstream from Pescadero Creek, 1.7 mi (2.7 km) north of Pescadero.	2.27		12-9-81	0.17
Honsinger Creek	Pescadero Creek	Lat 37°15'14", long 122°21'53", in SW¼NE¼ sec.11, T.8 S., R.5 W., San Mateo County, on left bank at upstream side of culvert, 0.4 mi (0.6 km) upstream from Pescadero Creek, 0.9 mi (1.4 km) east of town of Pescadero.	2.55		12-9-81 4-22-82 7-8-82	0.44 2.51 0.31
Gazos Creek basin						
Gazos Creek		Lat 37°10'41", long 122°21'05", in Punta del Año Nuevo Grant, San Mateo County, on right bank 1.7 mi (2.7 km) upstream from Highway 1 bridge, and 5.6 mi (9 km) southeast of town of Pescadero.	11.0		12-9-81 2-8-82 4-22-82 7-15-82	3.79 10.0 32.2 3.32
Whitehouse Creek basin						
Whitehouse Creek		Lat 37°08'58", long 122°20'40", in Punta del Año Nuevo Grant, San Mateo County, on upstream side of culvert at Highway 1, 0.3 mi (0.5 km) from mouth, 7.5 mi (12 km) southeast of town of Pescadero.	4.05		12-9-81 1-21-82 4-23-82 7-15-82	1.10 17.9 10.8 1.12
Johnson Gulch basin						
Roscoe Creek		Lat 38°20'25", long 123°02'44", Sonoma County, Bodega Grant, 0.5 mi (0.8 km) north of town of Bodega Bay.	0.25	1962-73	1-4-82	210
Lagunitas Creek basin						
Nicasio Creek	Lagunitas Creek	Lat 38°02'57", long 122°38'33", Marin County, San Pedro Santa Margarita Y Las Gallinas Grant, on Lucas Road 3.1 mi (5.0 km) southeast of town of Nicasio.	1.74	1962-73	1-4-82	610
Walker Creek basin						
Verde Canyon Creek	Walker Creek	Lat 38°09'45", long 122°48'35", Marin County, in Soulajule Grant, about 0.25 mi (0.40 km) southwest of intersection of Marshall-Petaluma Road and unnamed road to Walker Creek near Marshall gaging station, and 5.0 mi (8.0 km) east of town of Marshall.	3.10	1982	1-4-82	1,770
San Francisquito Creek basin						
Los Trancos Creek		Lat 37°24'35", long 122°11'35", in El Corte Madera Grant, about 800 ft (244 m) upstream from mouth and 1.6 mi (2.57 km) southwest of Stanford University post office, Santa Clara County.	7.50	1930-41	1-4-82	930
Americano Creek basin						
Unnamed Creek	Americano Creek	Lat 38°19'45", long 122°50'39", in Cañada de Pogolimi Grant, Sonoma County, on Bloomfield Road 1.0 mi (1.6 km) northwest of Bloomfield.	1.09	1982	1-4-82	1,010

PAJARO RIVER BASIN

11153500 LLAGAS CREEK NEAR MORGAN HILL, CA

LOCATION.--Lat 37°06'52", long 121°41'22", in Las Uvas Grant, Santa Clara County, Hydrologic Unit 18060002, 500 ft (152 m) upstream from Llagas Avenue bridge, 0.3 mi (0.5 km) downstream from Chesbro Dam, 0.3 mi (0.5 km) upstream from small left bank tributary, and 2.3 mi (3.7 km) west of Morgan Hill.

DRAINAGE AREA.--19.6 mi² (50.8 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1979 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW- INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)
NOV										
18...	1300	1.8	318	8.0	14.5	760	54	9.1	90	--
DEC										
31...	1420	1.8	350	8.1	11.0	750	7.3	10.7	99	--
JAN										
06...	1600	5.5	333	7.8	9.5	760	56	9.6	84	--
22...	1445	270	251	8.0	8.5	765	23	11.6	99	--
FEB										
02...A	1025	3.9	--	--	11.0	--	--	--	--	75
09...A	1000	1.2	--	--	9.0	--	--	--	--	210
16...A	1040	287	--	--	9.0	--	--	--	--	25
13...	1400	44	289	8.4	9.0	760	23	11.2	97	--
23...A	1020	7.0	--	--	10.0	--	--	--	--	80
MAR										
02...A	1140	2.0	--	--	12.0	--	--	--	--	6000
31...	1730	1200	304	8.2	12.0	750	15	10.6	100	--
MAY										
19...	1200	9.9	311	8.6	20.0	755	3.7	9.8	109	--
JUL										
21...	1345	13	287	8.0	13.5	755	3.9	11.1	108	--
27...A	1015	14	--	--	13.0	--	--	--	--	50
AUG										
03...A	0835	16	--	--	12.0	--	--	--	--	35
10...A	0905	15	--	--	13.0	--	--	--	--	25
16...A	0900	15	--	--	13.0	--	--	--	--	10
24...A	0850	15	--	--	13.0	--	--	--	--	10
SEP										
07...	1430	2.2	316	7.2	17.0	750	5.5	9.1	96	--

DATE	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOC- CI FECAL, PER (COLS./ 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
NOV										
18...	--	--	152	12	28	20	8.9	11	.3	1.4
DEC										
31...	--	--	173	13	33	22	9.9	11	.3	1.4
JAN										
06...	--	--	165	13	28	23	9.6	11	.3	1.5
22...	--	--	124	0	25	15	7.4	11	.3	1.2
FEB										
02...	40	20	--	--	--	--	--	--	--	--
09...	150	150	--	--	--	--	--	--	--	--
16...	15	22	--	--	--	--	--	--	--	--
18...	--	--	140	6	28	17	7.8	11	.3	1.4
23...	42	22	--	--	--	--	--	--	--	--
MAR										
02...	1800	810	--	--	--	--	--	--	--	--
31...	--	--	151	5	29	19	8.1	10	.3	1.2
MAY										
19...	--	--	162	6	32	20	8.4	10	.3	1.2
JUL										
21...	--	--	147	3	29	18	8.2	11	.3	1.1
27...	10	14	--	--	--	--	--	--	--	--
AUG										
03...	18	25	--	--	--	--	--	--	--	--
10...	10	25	--	--	--	--	--	--	--	--
16...	10	8	--	--	--	--	--	--	--	--
24...	5	10	--	--	--	--	--	--	--	--
SEP										
07...	--	--	160	16	31	20	8.2	10	.3	.9

See footnotes at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

PAJARO RIVER BASIN--Continued
11153500 LLAGAS CREEK NEAR MORGAN HILL, CA--Continued

DATE	ALKA- LITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
NOV										
18...	140	<5.0	10	.1	15	--	--	--	.91	.91
DEC										
31...	160	<5.0	9.7	.1	17	--	--	--	.65	.66
JAN										
06...	152	7.0	14	.1	18	193	.26	2.9	1.8	1.8
22...	138	<5.0	17	.1	17	--	--	--	.59	.58
FEB										
02...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
18...	134	6.0	6.7	.1	18	166	.23	19.7	.55	.56
23...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	--	--	--	--
31...	146	6.0	6.7	.2	17	175	.24	568	.10	.10
MAY										
19...	156	6.0	6.6	.1	20	188	.26	5.0	<.10	<.10
JUL										
21...	144	12	5.8	<.1	20	181	.25	6.3	<.10	<.10
27...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
SEP										
07...	144	11	6.1	.1	21	185	.25	1.1	.10	<.10

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
NOV									
18...	.15	.14	.68	.59	.83	.73	1.7	.06	.05
DEC									
31...	.14	.14	.58	.50	.72	.64	1.4	.05	.02
JAN									
06...	.13	.08	.82	.80	.95	.88	2.8	.06	.03
22...	.15	.16	.49	.44	.64	.60	1.2	.04	.04
FEB									
02...	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
18...	.07	.06	.58	.62	.65	.68	1.2	.04	.02
23...	--	--	--	--	--	--	--	--	--
MAR									
02...	--	--	--	--	--	--	--	--	--
31...	.15	.13	.56	.39	.71	.52	.81	.04	.02
MAY									
19...	.13	.09	.51	.53	.64	.62	--	.04	.01
JUL									
21...	.12	.12	1.9	.78	2.0	.90	--	.02	.02
27...	--	--	--	--	--	--	--	--	--
AUG									
03...	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
SEP									
07...	.22	.16	.58	.54	.80	.70	.90	.05	.03

A Bacterial sample collected and analyzed by Santa Clara Valley Water District.
 < Actual value is known to be less than the value shown.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

PAJARO RIVER BASIN--Continued
 11153500 LLAGAS CREEK NEAR MORGAN HILL, CA--Continued

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- INUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)
NOV 18...	1300	--	--	--	--	150	--	--
DEC 31...	1420	--	--	--	--	180	--	--
JAN 06...	1600	50	7500	1	4	140	1	1
JAN 22...	1445	--	--	--	--	130	--	--
FEB 18...	1400	--	--	--	--	150	--	--
MAR 31...	1730	--	--	--	--	170	--	--
MAY 19...	1200	--	--	--	--	150	--	--
JUL 21...	1345	--	--	--	--	150	--	--
SEP 07...	1430	<10	2600	1	2	150	<1	<1

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV 18...	--	--	--	--	--	65	--	--	--
DEC 31...	--	--	--	--	--	18	--	--	--
JAN 06...	<10	210	60	2	25	26	19000	8	10
JAN 22...	--	--	--	--	--	56	--	--	--
FEB 18...	--	--	--	--	--	65	--	--	--
MAR 31...	--	--	--	--	--	20	--	--	--
MAY 19...	--	--	--	--	--	<9	--	--	--
JUL 21...	--	--	--	--	--	55	--	--	--
SEP 07...	<10	50	20	<1	13	260	6000	5	<10

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
NOV 18...	--	--	--	--	--	--	--	--
DEC 31...	--	--	--	--	--	--	--	--
JAN 06...	140	900	<.1	.09	<100	<1	<10	42
JAN 22...	--	--	--	--	--	--	--	--
FEB 18...	--	--	--	--	--	--	--	--
MAR 31...	--	--	--	--	--	--	--	--
MAY 19...	--	--	--	--	--	--	--	--
JUL 21...	--	--	--	--	--	--	--	--
SEP 07...	--	360	<.1	.06	<100	<1	10	15

< Actual value is known to be less than the value shown.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

PAJARO RIVER BASIN--Continued
11153500 LLAGAS CREEK NEAR MORGAN HILL, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
NOV 18...	1300	19	2.4	--	--	--	--	--	--	--
DEC 31...	1420	6.3	.6	--	--	--	--	--	--	--
JAN 06...	1600	6.4	1.2	.00	.00	.00	.00	.00	.00	.00
22...	1445	5.5	.5	--	--	--	--	--	--	--
FEB 18...	1400	4.9	.3	--	--	--	--	--	--	--
MAR 31...	1730	4.5	.7	--	--	--	--	--	--	--
MAY 19...	1200	3.2	.5	--	--	--	--	--	--	--
JUL 21...	1345	3.7	.4	--	--	--	--	--	--	--
SEP 07...	1430	17	.5	<.10	<.10	<.01	<.10	<.01	<.01	<.01

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN, TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
NOV 18...	--	--	--	--	--	--	--	--	--	--
DEC 31...	--	--	--	--	--	--	--	--	--	--
JAN 06...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22...	--	--	--	--	--	--	--	--	--	--
FEB 18...	--	--	--	--	--	--	--	--	--	--
MAR 31...	--	--	--	--	--	--	--	--	--	--
MAY 19...	--	--	--	--	--	--	--	--	--	--
JUL 21...	--	--	--	--	--	--	--	--	--	--
SEP 07...	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 18...	--	--	--	--	--	--	--	--	--	--
DEC 31...	--	--	--	--	--	--	--	--	--	--
JAN 06...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00
22...	--	--	--	--	--	--	--	--	--	--
FEB 18...	--	--	--	--	--	--	--	--	--	--
MAR 31...	--	--	--	--	--	--	--	--	--	--
MAY 19...	--	--	--	--	--	--	--	--	--	--
JUL 21...	--	--	--	--	--	--	--	--	--	--
SEP 07...	<.01	<.01	<.01	<.01	<.10	<1	<.01	<.01	<.01	<.01

< Actual value is known to be less than the value shown.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS
PAJARO RIVER BASIN--Continued

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11153530 LLAGAS CREEK AT MACHADO SCHOOL, NEAR MORGAN HILL, CA

LOCATION.--Lat 37°05'23", long 121°39'38", in San Francisco de Las Llagas Grant, Santa Clara County, Hydrologic Unit 18060002, on left bank at Machado School, 125 ft (38 m) upstream from Sycamore Avenue bridge, 1,300 ft (396 m) downstream from small right-bank tributary, and 2.8 mi (4.5 km) south of Morgan Hill.

DRAINAGE AREA.--24.1 mi² (62.4 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)
NOV										
18...	1130	3.2	439	7.8	13.0	760	16	9.1	87	--
DEC										
31...	1310	5.2	457	7.7	13.0	750	2.1	9.0	87	--
JAN										
06...	1415	406	312	8.0	10.0	760	100	10.6	94	--
22...	1215	303	260	7.9	8.5	765	26	11.2	95	--
FEB										
02...A	1005	--	--	--	12.0	--	--	--	--	400
09...A	0950	--	--	--	12.0	--	--	--	--	180
16...A	1015	--	--	--	12.0	--	--	--	--	360
18...	1245	60	328	7.9	10.5	760	18	10.5	94	--
23...A	0950	--	--	--	10.5	--	--	--	--	260
MAR										
02...A	1125	--	--	--	14.0	--	--	--	--	25000
31...	1630	1510	294	8.1	11.5	755	48	10.4	96	--
MAY										
19...	1045	12	394	7.8	16.5	755	2.2	9.4	97	--
JUL										
21...	1240	16	320	8.0	16.0	755	3.1	10.5	107	--
AUG										
03...A	0915	--	--	--	16.0	--	--	--	--	1600
10...A	0935	--	--	--	16.0	--	--	--	--	1500
16...A	0925	--	--	--	16.0	--	--	--	--	600
24...A	0900	--	--	--	13.5	--	--	--	--	320
SEP										
07...	1245	2.0	406	7.2	19.0	750	1.0	9.2	101	--

DATE	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOC- CI FECAL, (COLS./ PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
NOV										
18...	--	--	212	24	37	29	11	10	.3	1.0
DEC										
31...	--	--	228	20	40	31	12	10	.4	.9
JAN										
06...	--	--	148	18	28	19	8.5	11	.3	1.8
22...	--	--	128	10	25	16	7.6	11	.3	1.2
FEB										
02...	200	22	--	--	--	--	--	--	--	--
09...	90	20	--	--	--	--	--	--	--	--
16...	190	170	--	--	--	--	--	--	--	--
18...	--	--	157	9	30	20	8.6	11	.3	1.2
23...	110	150	--	--	--	--	--	--	--	--
MAR										
02...	3100	3800	--	--	--	--	--	--	--	--
31...	--	--	144	0	28	18	8.1	11	.3	1.3
MAY										
19...	--	--	197	11	36	26	9.8	10	.3	1.0
JUL										
21...	--	--	160	6	31	20	8.9	11	.3	1.1
AUG										
03...	1300	290	--	--	--	--	--	--	--	--
10...	400	260	--	--	--	--	--	--	--	--
16...	160	130	--	--	--	--	--	--	--	--
24...	120	300	--	--	--	--	--	--	--	--
SEP										
07...	--	--	201	29	36	27	10	10	.3	.8

See footnotes at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

PAJARO RIVER BASIN--Continued

11153530 LLAGAS CREEK AT MACHADO SCHOOL, NEAR MORGAN HILL, CA--Continued

DATE	ALKA- LITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
NOV										
18...	188	5.0	16	.2	24	236	.32	2.0	1.5	1.5
DEC										
31...	208	8.0	15	.1	26	258	.35	3.6	1.7	1.7
JAN										
06...	130	6.0	18	.1	17	177	.24	194	.82	.79
22...	118	<5.0	7.1	.1	18	--	--	--	.66	.66
FEB										
02...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
18...	148	6.0	8.4	.1	20	183	.25	29.7	.96	.97
23...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	--	--	--	--
31...	144	6.0	6.5	.1	17	172	.23	700	.16	.14
MAY										
19...	186	21	11	.1	24	241	.33	7.8	1.2	1.3
JUL										
21...	154	13	7.0	<.1	21	195	.26	8.4	.44	.44
AUG										
03...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
SEP										
07...	172	15	10	.1	25	227	.31	1.2	1.2	1.2

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
NOV									
18...	.14	.15	.67	.58	.81	.73	2.3	.04	.05
DEC									
31...	.07	.07	.64	.67	.71	.74	2.4	.05	.04
JAN									
06...	.16	.07	.73	.43	.89	.50	1.7	.17	.04
22...	.27	.15	.39	.46	.66	.61	1.3	.05	.04
FEB									
02...	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
18...	.07	.06	.65	.53	.72	.59	1.7	.04	.02
23...	--	--	--	--	--	--	--	--	--
MAR									
02...	--	--	--	--	--	--	--	--	--
31...	.14	.10	.43	.32	.57	.42	.73	.06	.03
MAY									
19...	.10	.12	.90	.68	1.0	.80	2.2	<.01	.01
JUL									
21...	.09	.08	1.5	1.2	1.6	1.3	2.0	.03	.02
AUG									
03...	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
SEP									
07...	.22	.14	.58	.46	.80	.60	2.0	.03	.02

A Bacterial sample collected and analyzed by Santa Clara Valley Water District.
 < Actual value is known to be less than the value shown.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

PAJARO RIVER BASIN--Continued
 11153530 LLAGAS CREEK AT MACHADO SCHOOL, NEAR MORGAN HILL, CA--Continued

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- INUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)
NOV								
18...	1130	--	--	--	--	160	--	--
DEC								
31...	1310	--	--	--	--	150	--	--
JAN								
06...	1415	20	13000	1	2	140	1	1
22...	1215	--	--	--	--	120	--	--
FEB								
18...	1245	--	--	--	--	150	--	--
MAR								
31...	1630	--	--	--	--	160	--	--
MAY								
19...	1045	--	--	--	--	150	--	--
JUL								
21...	1240	--	--	--	--	140	--	--
SEP								
07...	1245	<10	3800	1	3	160	<1	<1

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV									
18...	--	--	--	--	--	31	--	--	--
DEC									
31...	--	--	--	--	--	12	--	--	--
JAN									
06...	<10	80	20	2	27	60	22000	4	10
22...	--	--	--	--	--	11	--	--	--
FEB									
18...	--	--	--	--	--	47	--	--	--
MAR									
31...	--	--	--	--	--	17	--	--	--
MAY									
19...	--	--	--	--	--	<9	--	--	--
JUL									
21...	--	--	--	--	--	34	--	--	--
SEP									
07...	10	20	10	1	17	20	8000	1	<10

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
NOV								
18...	--	--	--	--	--	--	--	--
DEC								
31...	--	--	--	--	--	--	--	--
JAN								
06...	40	380	<.1	.08	<100	<1	10	44
22...	--	--	--	--	--	--	--	--
FEB								
18...	--	--	--	--	--	--	--	--
MAR								
31...	--	--	--	--	--	--	--	--
MAY								
19...	--	--	--	--	--	--	--	--
JUL								
21...	--	--	--	--	--	--	--	--
SEP								
07...	10	490	<.1	.03	<100	<1	<10	26

< Actual value is known to be less than the value shown.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

PAJARO RIVER BASIN--Continued

11153530 LLAGAS CREEK AT MACHADO SCHOOL, NEAR MORGAN HILL, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
NOV 18...	1130	12	.4	--	--	--	--	--	--	--
DEC 31...	1310	4.4	.3	--	--	--	--	--	--	--
JAN 06...	1415	6.3	3.8	.00	.00	.00	.00	.00	.00	.00
22...	1215	5.7	.7	--	--	--	--	--	--	--
FEB 18...	1245	4.1	.3	--	--	--	--	--	--	--
MAR 31...	1630	4.8	1.4	--	--	--	--	--	--	--
MAY 19...	1045	2.3	.2	--	--	--	--	--	--	--
JUL 21...	1240	3.4	.3	--	--	--	--	--	--	--
SEP 07...	1245	2.4	.1	<.10	<.10	<.01	<.10	<.01	<.01	<.01

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN, TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
NOV 18...	--	--	--	--	--	--	--	--	--	--
DEC 31...	--	--	--	--	--	--	--	--	--	--
JAN 06...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22...	--	--	--	--	--	--	--	--	--	--
FEB 18...	--	--	--	--	--	--	--	--	--	--
MAR 31...	--	--	--	--	--	--	--	--	--	--
MAY 19...	--	--	--	--	--	--	--	--	--	--
JUL 21...	--	--	--	--	--	--	--	--	--	--
SEP 07...	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 18...	--	--	--	--	--	--	--	--	--	--
DEC 31...	--	--	--	--	--	--	--	--	--	--
JAN 06...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00
22...	--	--	--	--	--	--	--	--	--	--
FEB 18...	--	--	--	--	--	--	--	--	--	--
MAR 31...	--	--	--	--	--	--	--	--	--	--
MAY 19...	--	--	--	--	--	--	--	--	--	--
JUL 21...	--	--	--	--	--	--	--	--	--	--
SEP 07...	<.01	<.01	<.01	<.01	<.10	<1	<.01	<.01	<.01	<.01

< Actual value is known to be less than the value shown.

PAJARO RIVER BASIN--Continued

11153555 LLAGAS CREEK AT SAN MARTIN, CA

LOCATION.--Lat 37°05'13", long 121°36'15", in San Francisco de Las Llagas Grant, Santa Clara County, Hydrologic Unit 18060002, at bridge on San Martin Avenue, 0.3 mi (0.5 km) east of San Martin.
DRAINAGE AREA.--28.2 mi² (73.0 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1979 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)
NOV										
18...	1010	3.5	328	8.2	14.0	765	11	10.7	103	--
DEC										
31...	1115	6.6	331	8.1	12.0	755	21	10.6	99	--
JAN										
06...	1130	59	355	7.7	10.5	765	60	10.1	90	--
22...	1015	279	260	8.0	8.0	770	32	11.2	94	--
FEB										
02...A	0930	--	--	--	10.0	--	--	--	--	20000
09...A	0930	--	--	--	10.0	--	--	--	--	250
16...A	1015	--	--	--	12.0	--	--	--	--	2200
18...	1115	63	329	8.1	11.0	765	20	10.8	98	--
23...A	0950	--	--	--	10.5	--	--	--	--	680
MAR										
02...A	1115	--	--	--	13.0	--	--	--	--	17000
31...	1300	1210	266	7.9	11.5	755	230	10.2	94	--
MAY										
19...	0900	14	404	8.0	17.5	760	3.1	9.2	97	--
JUL										
21...	1040	19	300	8.2	19.0	760	5.3	10.6	115	--
AUG										
03...A	0900	--	--	--	12.0	--	--	--	--	600
10...A	0915	--	--	--	13.0	--	--	--	--	300
16...A	0915	--	--	--	13.0	--	--	--	--	340
24...A	0915	--	--	--	17.0	--	--	--	--	550
SEP										
07...	1045	17	287	7.8	18.0	755	4.8	11.5	123	--

DATE	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOC FECAL, (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
NOV										
18...	--	--	152	22	28	20	10	12	.4	1.9
DEC										
31...	--	--	156	14	28	21	10	12	.4	1.4
JAN										
06...	--	--	175	25	32	23	9.9	11	.3	1.6
22...	--	--	128	8	25	16	7.5	11	.3	1.2
FEB										
02...	6800	180	--	--	--	--	--	--	--	--
09...	70	55	--	--	--	--	--	--	--	--
16...	1800	1900	--	--	--	--	--	--	--	--
18...	--	--	160	14	31	20	8.7	11	.3	1.2
23...	46	68	--	--	--	--	--	--	--	--
MAR										
02...	2100	940	--	--	--	--	--	--	--	--
31...	--	--	130	0	24	17	8.0	12	.3	1.8
MAY										
19...	--	--	204	18	39	26	11	10	.3	1.0
JUL										
21...	--	--	147	7	29	18	9.1	12	.3	1.0
AUG										
03...	140	150	--	--	--	--	--	--	--	--
10...	90	280	--	--	--	--	--	--	--	--
16...	80	240	--	--	--	--	--	--	--	--
24...	130	170	--	--	--	--	--	--	--	--
SEP										
07...	--	--	141	23	30	16	8.6	12	.3	.9

See footnotes at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

PAJARO RIVER BASIN--Continued
11153555 LLAGAS CREEK AT SAN MARTIN, CA--Continued

DATE	ALKA- LITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
NOV										
18...	130	6.0	14	.1	17	176	.24	1.7	2.0	1.8
DEC										
31...	142	<5.0	12	.1	20	--	--	--	1.6	1.7
JAN										
06...	150	6.0	20	.1	25	208	.28	33.1	4.7	4.0
22...	120	<5.0	19	.1	18	--	--	--	.76	.76
FEB										
02...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
18...	146	6.0	8.8	.1	20	184	.25	31.2	1.1	1.1
23...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	--	--	--	--
31...	130	6.0	6.1	.2	17	159	.22	518	.27	.28
MAY										
19...	186	20	12	.1	23	244	.33	9.2	1.4	1.5
JUL										
21...	140	18	7.1	<.1	18	184	.25	9.5	.31	.31
AUG										
03...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
SEP										
07...	118	21	6.7	.1	18	172	.23	7.9	1.2	--

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
NOV									
18...	.18	.18	.67	.60	.85	.78	2.9	.09	.08
DEC									
31...	.14	.09	1.1	1.0	1.2	1.1	2.8	.17	.11
JAN									
06...	.11	.09	.99	1.0	1.1	1.1	5.8	.08	.09
22...	.17	.15	.70	.50	.87	.65	1.6	.02	.04
FEB									
02...	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
18...	.10	.06	.59	.58	.69	.64	1.8	.04	.02
23...	--	--	--	--	--	--	--	--	--
MAR									
02...	--	--	--	--	--	--	--	--	--
31...	.16	.10	.62	.36	.78	.46	1.1	.11	.07
MAY									
19...	.10	.14	1.0	.96	1.1	1.1	2.5	.04	<.01
JUL									
21...	.07	.09	.93	.91	1.0	1.0	1.3	.02	.01
AUG									
03...	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
SEP									
07...	.24	.14	.46	.36	.70	.50	1.9	.03	<.01

A Bacterial sample collected and analyzed by Santa Clara Valley Water District.
< Actual value is known to be less than the value shown.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

PAJARO RIVER BASIN--Continued
 11153555 LLAGAS CREEK AT SAN MARTIN, CA--Continued

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- INUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)
NOV 18...	1010	--	--	--	--	90	--	--
DEC 31...	1115	--	--	--	--	100	--	--
JAN 06...	1130	<10	4000	1	8	90	<1	<1
JAN 22...	1015	--	--	--	--	120	--	--
FEB 18...	1115	--	--	--	--	140	--	--
MAR 31...	1300	--	--	--	--	140	--	--
MAY 19...	0900	--	--	--	--	140	--	--
JUL 21...	1040	--	--	--	--	90	--	--
SEP 07...	1045	<10	4300	1	4	70	<1	<1

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV 18...	--	--	--	--	--	30	--	--	--
DEC 31...	--	--	--	--	--	72	--	--	--
JAN 06...	<10	30	20	3	15	48	7500	1	10
JAN 22...	--	--	--	--	--	100	--	--	--
FEB 18...	--	--	--	--	--	52	--	--	--
MAR 31...	--	--	--	--	--	20	--	--	--
MAY 19...	--	--	--	--	--	<9	--	--	--
JUL 21...	--	--	--	--	--	16	--	--	--
SEP 07...	10	30	10	1	14	4	9000	<1	<10

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
NOV 18...	--	--	--	--	--	--	--	--
DEC 31...	--	--	--	--	--	--	--	--
JAN 06...	10	800	<.1	.07	<100	<1	10	22
JAN 22...	--	--	--	--	--	--	--	--
FEB 18...	--	--	--	--	--	--	--	--
MAR 31...	--	--	--	--	--	--	--	--
MAY 19...	--	--	--	--	--	--	--	--
JUL 21...	--	--	--	--	--	--	--	--
SEP 07...	20	280	<.1	.04	<100	<1	<10	25

< Actual value is known to be less than the value shown.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

PAJARO RIVER BASIN--Continued
11153555 LLAGAS CREEK AT SAN MARTIN, CA--Continued

DATE	TIME	CARBON, ORGANIC OIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
NOV 18...	1010	19	.5	--	--	--	--	--	--	--
DEC 31...	1115	7.8	.9	--	--	--	--	--	--	--
JAN 06...	1130	6.2	1.1	.00	.00	.00	.00	.00	.00	.00
22...	1015	5.8	.9	--	--	--	--	--	--	--
FEB 18...	1115	4.7	.4	--	--	--	--	--	--	--
MAR 31...	1300	5.3	3.2	--	--	--	--	--	--	--
MAY 19...	0900	2.4	.5	--	--	--	--	--	--	--
JUL 21...	1040	3.0	.5	--	--	--	--	--	--	--
SEP 07...	1045	2.5	.5	<.10	<.10	<.01	<.10	<.01	<.01	<.01

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
NOV 18...	--	--	--	--	--	--	--	--	--	--
DEC 31...	--	--	--	--	--	--	--	--	--	--
JAN 06...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22...	--	--	--	--	--	--	--	--	--	--
FEB 18...	--	--	--	--	--	--	--	--	--	--
MAR 31...	--	--	--	--	--	--	--	--	--	--
MAY 19...	--	--	--	--	--	--	--	--	--	--
JUL 21...	--	--	--	--	--	--	--	--	--	--
SEP 07...	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 18...	--	--	--	--	--	--	--	--	--	--
DEC 31...	--	--	--	--	--	--	--	--	--	--
JAN 06...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00
22...	--	--	--	--	--	--	--	--	--	--
FEB 18...	--	--	--	--	--	--	--	--	--	--
MAR 31...	--	--	--	--	--	--	--	--	--	--
MAY 19...	--	--	--	--	--	--	--	--	--	--
JUL 21...	--	--	--	--	--	--	--	--	--	--
SEP 07...	<.01	<.01	<.01	<.01	<.10	<1	<.01	<.01	<.01	<.01

< Actual value is known to be less than the value shown.

GUADALUPE RIVER BASIN

11167500 GUADALUPE CREEK AT GUADALUPE, CA

LOCATION.--Lat 37°13'02", long 121°54'35", in SW¼ sec.19, T.85, R.1 E., Santa Clara County, Hydrologic Unit 18050003, on left bank 0.1 mi (0.2 km) downstream from small left-bank tributary, 0.5 mi (0.8 km) northwest of Guadalupe, and 3.5 mi (5.6 km) upstream from confluence with Alamitos Creek.

DRAINAGE AREA.--12.8 mi² (33.2 km²).

REMARKS.--Multi-date sample was collected by automatic sampler and composited.

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1980 to current year.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	
NOV											
16-17	--	--	437	--	--	--	80	--	--	51	
17...	1010	17	384	8.1	13.0	760	--	10.0	95	--	
DEC											
30...	1120	7.6	367	8.3	11.0	755	5.0	11.0	101	29	
JAN											
04-05	--	--	188	--	--	--	240	--	--	44	
05...	1130	150	199	7.9	11.0	755	--	10.6	97	--	
20-21	--	--	292	--	--	--	78	--	--	--	
21...	1000	37	300	8.0	8.0	755	--	11.4	97	--	
FEB											
02...A	1050	23	--	--	9.5	--	--	--	--	--	
09...A	1045	12	--	--	9.0	--	--	--	--	--	
16-17	--	--	295	--	--	--	130	--	--	64	
16...A	1115	29	--	--	12.0	--	--	--	--	--	
17...	0925	106	273	8.2	9.5	765	--	11.2	98	--	
23...A	1100	26	--	--	10.0	--	--	--	--	--	
MAR											
02...A	1215	120	--	--	11.0	--	--	--	--	--	
29-30	--	--	282	--	--	--	70	--	--	18	
30...	1055	90	304	8.0	10.0	760	--	10.9	97	--	
MAY											
17-18	--	--	326	--	--	--	3.2	--	--	13	
18...	1020	14	317	8.3	11.5	755	--	11.1	103	--	
JUL											
19-20	--	--	471	--	--	--	12	--	--	11	
20...	1030	3.7	457	8.4	16.5	755	--	10.4	108	--	
27...A	1050	3.9	--	--	15.0	--	--	--	--	--	
AUG											
03...A	0800	3.7	--	--	14.0	--	--	--	--	--	
10...A	0815	2.0	--	--	14.0	--	--	--	--	--	
16...A	0805	2.6	--	--	13.0	--	--	--	--	--	
24...A	0800	2.9	--	--	15.0	--	--	--	--	--	
SEP											
07-08	--	--	355	--	--	--	10	--	--	23	
08...	1015	7.3	341	7.9	13.5	755	--	10.5	102	--	
DATE		COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)	COLI- FORM, FECAL, 0.45 UM+MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
NOV											
16-17	--	--	--	--	204	64	34	29	14	13	.4
17...	--	--	--	--	--	--	--	--	--	--	--
DEC											
30...	--	--	--	--	192	20	39	23	12	12	.4
JAN											
04-05	--	--	--	--	89	10	16	12	6.9	14	.3
05...	--	--	--	--	--	--	--	--	--	--	--
20-21	--	--	--	--	139	9	26	18	9.1	12	.3
21...	--	--	--	--	--	--	--	--	--	--	--
FEB											
02...	100	90	12	--	--	--	--	--	--	--	--
09...	90	30	6	--	--	--	--	--	--	--	--
16-17	--	--	--	--	137	7	27	17	8.9	12	.3
16...	1200	1100	350	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
23...	180	120	46	--	--	--	--	--	--	--	--
MAR											
02...	2500	500	610	--	--	--	--	--	--	--	--
29-30	--	--	--	--	135	5	26	17	8.5	12	.3
30...	--	--	--	--	--	--	--	--	--	--	--
MAY											
17-18	--	--	--	--	153	13	30	19	9.6	12	.3
18...	--	--	--	--	--	--	--	--	--	--	--
JUL											
19-20	--	--	--	--	228	41	40	31	15	12	.4
20...	--	--	--	--	--	--	--	--	--	--	--
27...	600	600	540	--	--	--	--	--	--	--	--
AUG											
03...	550	190	380	--	--	--	--	--	--	--	--
10...	600	230	600	--	--	--	--	--	--	--	--
16...	540	400	530	--	--	--	--	--	--	--	--
24...	900	400	900	--	--	--	--	--	--	--	--
SEP											
07-08	--	--	--	--	158	8	27	22	13	15	.5
08...	--	--	--	--	--	--	--	--	--	--	--

See footnotes at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

GUADALUPE RIVER BASIN--Continued
 11167500 GUADALUPE CREEK AT GUADALUPE, CA--Continued

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
NOV										
16-17	2.8	--	55	14	.2	15	249	.34	--	.81
17...	--	146	--	--	--	--	--	--	--	--
DEC										
30...	1.1	172	7.0	13	.2	18	217	.29	4.4	.24
JAN										
04-05	2.1	--	6.0	12	.1	16	119	.16	--	.98
05...	--	82	--	--	--	--	--	--	--	--
20-21	1.5	--	<5.0	12	.1	16	--	--	--	.54
21...	--	132	--	--	--	--	--	--	--	--
FEB										
02...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
16-17	1.3	--	6.0	14	.1	15	168	.23	--	.34
16...	--	--	--	--	--	--	--	--	--	--
17...	--	160	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	--	--	--	--
29-30	1.4	--	6.0	7.6	.2	15	160	.22	--	.33
30...	--	132	--	--	--	--	--	--	--	--
MAY										
17-18	1.2	--	17	8.2	.1	16	185	.25	--	.11
18...	--	144	--	--	--	--	--	--	--	--
JUL										
19-20	1.3	--	54	11	.1	15	280	.38	--	1.0
20...	--	190	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
SEP										
07-08	1.0	--	25	9.4	.1	15	203	.28	--	.20
08...	--	152	--	--	--	--	--	--	--	--

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHOPHOS- PHATE DIS- SOLVED (MG/L AS P)
NOV										
16-17	.82	.25	.16	.75	.52	1.00	.68	1.8	.15	.07
17...	--	--	--	--	--	--	--	--	--	--
DEC										
30...	.24	.11	.10	.74	.49	.85	.59	1.1	.05	.03
JAN										
04-05	.99	.13	.10	.78	.71	.91	.81	1.9	.21	.09
05...	--	--	--	--	--	--	--	--	--	--
20-21	.53	.27	.16	.50	.43	.77	.59	1.3	.10	.06
21...	--	--	--	--	--	--	--	--	--	--
FEB										
02...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
16-17	.32	.13	.10	.86	.36	.99	.46	1.3	.06	.02
16...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	--	--	--	--
29-30	.32	.13	.12	.47	.30	.60	.42	.93	.05	.04
30...	--	--	--	--	--	--	--	--	--	--
MAY										
17-18	.11	.10	.11	1.0	.59	1.1	.70	1.2	.04	.02
18...	--	--	--	--	--	--	--	--	--	--
JUL										
19-20	.10	.07	.06	1.3	.84	1.4	.90	2.4	.03	.03
20...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
SEP										
07-08	.22	.20	.09	.40	.31	.60	.40	.80	.02	<.01
08...	--	--	--	--	--	--	--	--	--	--

A Bacterial sample collected and analyzed by Santa Clara Valley Water District.
 < Actual value is known to be less than the value shown.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

GUADALUPE RIVER BASIN--Continued
11167500 GUADALUPE CREEK AT GUADALUPE, CA--Continued

		ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- INUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	HOPON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)		
DATE	TIME									
NOV										
16-17	--	--	--	--	--	120	--	--		
DEC										
30...	1120	--	--	--	--	80	--	--		
JAN										
04-05	--	20	--	1	--	40	<1	--		
05...	1130	--	7500	--	9	--	--	1		
20-21	--	--	--	--	--	60	--	--		
FEB										
16-17	--	--	--	--	--	90	--	--		
MAR										
29-30	--	--	--	--	--	100	--	--		
MAY										
17-18	--	--	--	--	--	90	--	--		
JUL										
19-20	--	--	--	--	--	170	--	--		
SEP										
07-08	--	20	--	1	--	270	<1	--		
08...	1015	--	3500	--	14	--	--	<1		
DATE		CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV										
16-17	--	--	--	--	--	--	31	--	--	--
DEC										
30...	--	--	--	--	--	--	66	--	--	--
JAN										
04-05	<10	--	--	--	4	--	210	--	4	--
05...	--	50	20	--	--	16	--	13000	--	10
20-21	--	--	--	--	--	--	35	--	--	--
FEB										
16-17	--	--	--	--	--	--	30	--	--	--
MAR										
29-30	--	--	--	--	--	--	34	--	--	--
MAY										
17-18	--	--	--	--	--	--	48	--	--	--
JUL										
19-20	--	--	--	--	--	--	3	--	--	--
SEP										
07-08	<10	--	--	--	1	--	4	--	<1	--
08...	--	30	20	--	--	12	--	7500	--	<10
DATE		MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	
NOV										
16-17	--	--	--	--	--	--	--	--	--	--
DEC										
30...	--	--	--	--	--	--	--	--	--	--
JAN										
04-05	10	--	--	<.1	--	<100	--	40	--	--
05...	--	430	--	--	7.2	--	<1	--	35	--
20-21	--	--	--	--	--	--	--	--	--	--
FEB										
16-17	--	--	--	--	--	--	--	--	--	--
MAR										
29-30	--	--	--	--	--	--	--	--	--	--
MAY										
17-18	--	--	--	--	--	--	--	--	--	--
JUL										
19-20	--	--	--	--	--	--	--	--	--	--
SEP										
07-08	7	--	--	<.1	--	100	--	4	--	--
08...	--	350	--	--	2.5	--	<1	--	24	--

< Actual value is known to be less than the value shown.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

GUADALUPE RIVER BASIN--Continued
 11167500 GUADALUPE CREEK AT GUADALUPE, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	ODE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
NOV 17...	1010	21	.4	--	--	--	--	--	--	--
DEC 30...	1120	5.4	.3	--	--	--	--	--	--	--
JAN 05...	1130	4.2	3.2	.00	.00	.00	.00	.00	.00	.00
21...	1000	4.5	.7	--	--	--	--	--	--	--
FEB 17...	0925	3.6	.7	--	--	--	--	--	--	--
MAR 30...	1055	3.3	.9	--	--	--	--	--	--	--
MAY 18...	1020	2.1	.2	--	--	--	--	--	--	--
JUL 20...	1030	2.3	.2	--	--	--	--	--	--	--
SEP 08...	1015	2.3	.1	<.10	<.10	<.01	<.10	<.01	<.01	<.01

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN, TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
NOV 17...	--	--	--	--	--	--	--	--	--	--
DEC 30...	--	--	--	--	--	--	--	--	--	--
JAN 05...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21...	--	--	--	--	--	--	--	--	--	--
FEB 17...	--	--	--	--	--	--	--	--	--	--
MAR 30...	--	--	--	--	--	--	--	--	--	--
MAY 18...	--	--	--	--	--	--	--	--	--	--
JUL 20...	--	--	--	--	--	--	--	--	--	--
SEP 08...	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 17...	--	--	--	--	--	--	--	--	--	--
DEC 30...	--	--	--	--	--	--	--	--	--	--
JAN 05...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00
21...	--	--	--	--	--	--	--	--	--	--
FEB 17...	--	--	--	--	--	--	--	--	--	--
MAR 30...	--	--	--	--	--	--	--	--	--	--
MAY 18...	--	--	--	--	--	--	--	--	--	--
JUL 20...	--	--	--	--	--	--	--	--	--	--
SEP 08...	<.01	<.01	<.01	<.01	<.10	<1	<.01	<.01	<.01	<.01

GUADALUPE RIVER BASIN--Continued

11167572 GUADALUPE RIVER AT ALAMITOS RECHARGE FACILITY, AT SAN JOSE, CA

LOCATION.--Lat 37°14'51", long 121°52'08", in San Juan Bautista Grant, Santa Clara County, Hydrologic Unit, 18050003, at south city limits of San Jose, 0.2 mi (0.3 km) downstream from confluence of Alamitos and Guadalupe creeks.

DRAINAGE AREA.--53.0 mi² (137.3 km²).

REMARKS.--Multi-date sample was collected by automatic sampler and composited.

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1979 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)
NOV										
16-17	--	--	429	--	--	--	42	--	--	38
17...	1105	115	433	7.8	16.0	765	--	6.6	67	--
DEC										
30...	1245	25	551	7.8	13.5	760	7.8	8.6	83	18
JAN										
04-05	--	--	215	--	--	--	190	--	--	37
05...	1315	1010	165	7.8	10.5	755	--	10.2	92	--
20-21	--	--	481	--	--	--	3.5	--	--	19
21...	1100	187	431	7.7	9.5	760	--	9.6	84	--
FEB										
02...A	0815	18	--	--	10.0	--	--	--	--	--
09...A	0830	19	--	--	10.5	--	--	--	--	--
16-17	--	--	391	--	--	--	46	--	--	36
16...A	0910	473	--	--	12.0	--	--	--	--	--
17...	1025	491	377	8.1	11.0	765	--	10.2	92	--
23...A	0820	86	--	--	11.0	--	--	--	--	--
MAR										
02...A	1005	316	--	--	13.0	--	--	--	--	--
29-30	--	--	355	--	--	--	32	--	--	15
30...	1230	433	368	7.9	11.0	760	--	9.6	87	--
MAY										
17-18	--	--	564	--	--	--	5.0	--	--	16
18...	1115	14	559	8.2	19.5	760	--	10.2	112	--
JUL										
19-20	--	--	518	--	--	--	13	--	--	13
20...	1130	16	510	8.2	24.0	760	--	10.0	119	--
27...A	0800	18	--	--	21.0	--	--	--	--	--
AUG										
03...A	1050	16	--	--	22.0	--	--	--	--	--
10...A	1040	15	--	--	22.0	--	--	--	--	--
16...A	1025	19	--	--	21.0	--	--	--	--	--
24...A	1015	17	--	--	23.0	--	--	--	--	--
SEP										
07-08	--	--	480	--	--	--	7.4	--	--	33
08...	1130	16	463	8.0	23.5	760	--	10.9	129	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

GUADALUPE RIVER BASIN--Continued
11167572 GUADALUPE RIVER AT ALAMITOS RECHARGE FACILITY, AT SAN JOSE, CA--Continued

DATE	COLI-FORM, TOTAL, IMMED. MEM. FIL (COLS./100 ML)	COLI-FORM, FECAL. 0.45 UM-MF (COLS./100 ML)	STREP-TOCOCOCCI FECAL. (COLS. PER 100 ML)	HARD-NESS (MG/L AS CaCO3)	HARD-NESS, NONCARBONATE (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	PERCENT SODIUM	SODIUM AD-SORPTION RATIO
NOV										
16-17	--	--	--	190	30	30	28	17	16	.5
17...	--	--	--	--	--	--	--	--	--	--
DEC										
30...	--	--	--	251	47	38	38	24	17	.7
JAN										
04-05	--	--	--	102	15	16	15	8.0	14	.4
05...	--	--	--	--	--	--	--	--	--	--
20-21	--	--	--	229	39	34	35	17	14	.5
21...	--	--	--	--	--	--	--	--	--	--
FEB										
02...	300	70	33	--	--	--	--	--	--	--
09...	130	60	24	--	--	--	--	--	--	--
16-17	--	--	--	189	19	33	26	12	12	.4
16...	5300	2900	2700	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
23...	500	140	70	--	--	--	--	--	--	--
MAR										
02...	32000	3800	4700	--	--	--	--	--	--	--
29-30	--	--	--	182	12	30	26	12	12	.4
30...	--	--	--	--	--	--	--	--	--	--
MAY										
17-18	--	--	--	260	40	40	39	19	14	.5
18...	--	--	--	--	--	--	--	--	--	--
JUL										
19-20	--	--	--	255	38	38	39	20	14	.6
20...	--	--	--	--	--	--	--	--	--	--
27...	120	55	75	--	--	--	--	--	--	--
AUG										
03...	150	60	55	--	--	--	--	--	--	--
10...	100	45	25	--	--	--	--	--	--	--
16...	120	30	38	--	--	--	--	--	--	--
24...	150	34	34	--	--	--	--	--	--	--
SEP										
07-08	--	--	--	223	16	38	31	15	13	.4
08...	--	--	--	--	--	--	--	--	--	--
DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS Cl)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)
NOV										
16-17	2.8	--	20	26	.2	15	236	.32	--	1.5
17...	--	166	--	--	--	--	--	--	--	--
DEC										
30...	1.6	204	42	35	.1	19	320	.44	21.6	1.8
JAN										
04-05	2.8	--	6.0	10	.1	14	125	.17	--	1.6
05...	--	98	--	--	--	--	--	--	--	--
20-21	1.8	--	17	35	.1	19	274	.37	--	2.6
21...	--	172	--	--	--	--	--	--	--	--
FEB										
02...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
16-17	1.6	--	7.0	12	.1	18	212	.29	--	1.0
16...	--	--	--	--	--	--	--	--	--	--
17...	--	168	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	--	--	--	--
29-30	1.5	--	7.0	13	.2	16	208	.28	--	1.1
30...	--	164	--	--	--	--	--	--	--	--
MAY										
17-18	1.4	--	39	25	.1	19	315	.43	--	2.0
18...	--	228	--	--	--	--	--	--	--	--
JUL										
19-20	1.3	--	32	22	.1	17	300	.41	--	1.3
20...	--	214	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
SEP										
07-08	1.4	--	27	19	.1	12	268	.36	--	.80
08...	--	198	--	--	--	--	--	--	--	--

See footnotes at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

GUADALUPE RIVER BASIN--Continued

11167572 GUADALUPE RIVER AT ALAMITOS RECHARGE FACILITY, AT SAN JOSE, CA--Continued

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
NOV										
16-17	1.5	.180	.21	.64	.55	.82	.76	2.3	.15	.12
17...	--	--	--	--	--	--	--	--	--	--
DEC										
30...	1.9	.080	.07	1.2	.68	1.30	.75	3.1	.08	.04
JAN										
04-05	1.6	.140	.11	1.1	.88	1.2	.99	2.8	.28	.20
05...	--	--	--	--	--	--	--	--	--	--
20-21	2.6	.230	.21	.53	.60	.76	.81	3.4	.10	.09
21...	--	--	--	--	--	--	--	--	--	--
FEB										
02...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
16-17	1.2	.120	.11	.59	.51	.71	.62	1.7	.07	.04
16...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	--	--	--	--
29-30	1.1	.140	.10	.54	.50	.68	.60	1.8	.05	.05
30...	--	--	--	--	--	--	--	--	--	--
MAY										
17-18	2.1	.130	.10	.85	.55	.98	.65	3.0	.05	.02
18...	--	--	--	--	--	--	--	--	--	--
JUL										
19-20	1.3	.070	.07	3.0	.83	3.1	.90	4.4	.02	.01
20...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
SEP										
07-08	.82	.210	.14	.69	.46	.90	.60	1.7	.04	<.01
08...	--	--	--	--	--	--	--	--	--	--

A Bacterial sample collected and analyzed by Santa Clara Valley Water District.
 < Actual value is known to be less than the value shown.

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- INUM, RECov. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECov. FM BOT- TOM MA- TERIAL (UG/G AS CD)
NOV								
16-17	--	--	--	--	--	100	--	--
DEC								
30...	1245	--	--	--	--	130	--	--
JAN								
04-05	--	20	--	2	--	60	<1	--
05...	1315	--	9500	--	15	--	--	1
20-21	--	--	--	--	--	100	--	--
FEB								
16-17	--	--	--	--	--	80	--	--
MAR								
29-30	--	--	--	--	--	100	--	--
MAY								
17-18	--	--	--	--	--	110	--	--
JUL								
19-20	--	--	--	--	--	130	--	--
SEP								
07-08	--	<10	--	2	--	120	<1	--
08...	1130	--	3100	--	4	--	--	<1

See footnote at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

GUADALUPE RIVER BASIN--Continued
 11167572 GUADALUPE RIVER AT ALAMITOS RECHARGE FACILITY, AT SAN JOSE, CA--Continued

DATE	CHROMIUM, DIS- SOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOT- TOM MA- (UG/G)	COBALT, RECOV. FM BOT- TOM MA- (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- (UG/G AS PB)
NOV 16-17	--	--	--	--	--	56	--	--	--
DEC 30...	--	--	--	--	--	12	--	--	--
JAN 04-05	<10	--	--	6	--	240	--	4	--
05...	--	90	10	--	21	--	18000	--	20
20-21	--	--	--	--	--	46	--	--	--
FEB 16-17	--	--	--	--	--	13	--	--	--
MAR 29-30	--	--	--	--	--	10	--	--	--
MAY 17-18	--	--	--	--	--	<9	--	--	--
JUL 19-20	--	--	--	--	--	<3	--	--	--
SEP 07-08	10	--	--	6	--	6	--	<1	--
08...	--	60	20	--	14	--	6500	--	<10

DATE	MANGANESE, DIS- SOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOT- TOM MA- (UG/G)	MERCURY, DIS- SOLVED (UG/L AS HG)	MERCURY, RECOV. FM BOT- TOM MA- (UG/G AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELENIUM, TOTAL FM BOT- TOM MA- (UG/G)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- (UG/G AS ZN)
NOV 16-17	--	--	--	--	--	--	--	--
DEC 30...	--	--	--	--	--	--	--	--
JAN 04-05	20	--	<.1	--	--	--	20	--
05...	--	550	--	12	--	<1	--	45
20-21	--	--	--	--	--	--	--	--
FEB 16-17	--	--	--	--	--	--	--	--
MAR 29-30	--	--	--	--	--	--	--	--
MAY 17-18	--	--	--	--	--	--	--	--
JUL 19-20	--	--	--	--	--	--	--	--
SEP 07-08	2	--	<.1	--	<100	--	76	--
08...	--	370	--	.05	--	<1	--	17

< Actual value is known to be less than the value shown.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS
WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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GUADALUPE RIVER BASIN--Continued
11167572 GUADALUPE RIVER AT ALAMITOS RECHARGE FACILITY, AT SAN JOSE, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
NOV 17...	1105	15	1.0	--	--	--	--	--	--	--
DEC 30...	1245	3.8	.5	--	--	--	--	--	--	--
JAN 05...	1315	8.6	6.5	.00	.00	.00	.00	.01	.01	.00
21...	1100	5.9	1.1	--	--	--	--	--	--	--
FEB 17...	1025	3.6	.7	--	--	--	--	--	--	--
MAR 30...	1230	4.0	.9	--	--	--	--	--	--	--
MAY 18...	1115	1.4	.3	--	--	--	--	--	--	--
JUL 20...	1130	3.5	.8	--	--	--	--	--	--	--
SEP 08...	1130	3.5	.4	<.10	<.10	<.01	<.10	<.01	<.01	<.01

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELORIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
NOV 17...	--	--	--	--	--	--	--	--	--	--
DEC 30...	--	--	--	--	--	--	--	--	--	--
JAN 05...	.05	.00	.00	.00	.00	.00	.00	.01	.09	.00
21...	--	--	--	--	--	--	--	--	--	--
FEB 17...	--	--	--	--	--	--	--	--	--	--
MAR 30...	--	--	--	--	--	--	--	--	--	--
MAY 18...	--	--	--	--	--	--	--	--	--	--
JUL 20...	--	--	--	--	--	--	--	--	--	--
SEP 08...	.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 17...	--	--	--	--	--	--	--	--	--	--
DEC 30...	--	--	--	--	--	--	--	--	--	--
JAN 05...	.00	.00	.00	.00	.00	0	.00	.03	.00	.00
21...	--	--	--	--	--	--	--	--	--	--
FEB 17...	--	--	--	--	--	--	--	--	--	--
MAR 30...	--	--	--	--	--	--	--	--	--	--
MAY 18...	--	--	--	--	--	--	--	--	--	--
JUL 20...	--	--	--	--	--	--	--	--	--	--
SEP 08...	<.01	<.01	<.01	<.01	<.10	<1	<.01	<.01	<.01	<.01

< Actual value is known to be less than the value shown.

GUADALUPE RIVER BASIN--Continued

11168000 LOS GATOS CREEK AT LOS GATOS, CA

LOCATION.--Lat 37°13'03", long 121°59'11", in SE 1/4 sec.20, T.8 S., R.1 W., Santa Clara County, Hydrologic Unit 18050003, on right bank 0.4 mi (0.6 km) upstream from Main Street bridge, 0.7 mi (1.1 km) southwest of Los Gatos Post Office, and 1.1 mi (1.8 km) downstream from Lexington Dam.

DRAINAGE AREA.--39.1 mi² (101.3 km²).

REMARKS.--Multi-date sample was collected by automatic sampler and composited.

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1980 to current year,

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL)
NOV									
16-17	--	--	347	--	--	--	15	--	44
17...	0900	9.2	369	8.0	13.5	760	--	9.6	--
DEC									
30...	1000	5.9	380	8.1	11.5	755	4.2	10.7	20
JAN									
04-05	--	--	156	--	--	--	570	--	140
05...	1000	58	132	7.8	11.5	750	--	10.3	--
20-21	--	--	341	--	--	--	22	--	22
21...	0850	8.1	348	7.9	8.0	750	--	11.4	--
FEB									
02...A	1110	1.2	--	--	9.0	--	--	--	--
09...A	1110	25	--	--	9.0	--	--	--	--
16-17	--	--	286	--	--	--	120	--	36
16...A	1135	37	--	--	12.0	--	--	--	--
17...	0810	22	290	8.1	10.5	760	--	10.6	95
23...A	1120	154	--	--	10.0	--	--	--	--
MAR									
02...A	1240	253	--	--	10.0	--	--	--	--
30...	0930	259	301	8.0	10.5	755	21	11.0	100
MAY									
17-18	--	--	266	--	--	--	17	--	16
18...	0920	31	269	8.1	11.5	755	--	10.8	100
JUL									
19-20	--	--	274	--	--	--	15	--	13
20...	0850	27	268	8.0	13.0	755	--	10.7	103
27...A	1115	26	--	--	13.0	--	--	--	--
AUG									
03...A	0740	26	--	--	12.0	--	--	--	--
10...A	0755	25	--	--	13.0	--	--	--	--
16...A	0740	25	--	--	13.0	--	--	--	--
24...A	0735	25	--	--	13.0	--	--	--	--
SEP									
08...	0900	67	270	7.5	13.5	750	2.7	10.3	100

DATE	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOC- FECAL, (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
NOV										
16-17	--	--	--	158	38	37	16	13	15	.5
17...	--	--	--	--	--	--	--	--	--	--
DEC										
30...	--	--	--	179	13	42	18	13	14	.4
JAN										
04-05	--	--	--	76	8	17	8.2	5.9	14	.3
05...	--	--	--	--	--	--	--	--	--	--
20-21	--	--	--	162	12	37	17	12	14	.4
21...	--	--	--	--	--	--	--	--	--	--
FEB										
02...	170	110	10	--	--	--	--	--	--	--
09...	300	22	4	--	--	--	--	--	--	--
16-17	--	--	--	129	9	32	12	9.9	14	.4
16...	800	200	200	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
23...	150	45	75	--	--	--	--	--	--	--
MAR										
02...	1000	100	100	--	--	--	--	--	--	--
30...	--	--	--	129	23	32	12	11	15	.4
MAY										
17-18	--	--	--	120	10	30	11	9.6	15	.4
18...	--	--	--	--	--	--	--	--	--	--
JUL										
19-20	--	--	--	124	19	30	12	11	16	.4
20...	--	--	--	--	--	--	--	--	--	--
27...	250	24	62	--	--	--	--	--	--	--
AUG										
03...	400	32	42	--	--	--	--	--	--	--
10...	100	40	90	--	--	--	--	--	--	--
16...	250	30	160	--	--	--	--	--	--	--
24...	250	8	160	--	--	--	--	--	--	--
SEP										
08...	--	--	--	120	18	30	11	9.4	14	.4

See footnotes at end of table.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

GUADALUPE RIVER BASIN--Continued
 11168000 LOS GATOS CREEK AT LOS GATOS, CA--Continued

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
NOV										
16-17	1.7	--	42	11	.2	13	206	.28	--	.89
17...	--	142	--	--	--	--	--	--	--	--
DEC										
30...	1.3	166	12	11	.2	15	212	.29	3.4	.49
JAN										
04-05	2.0	--	9.0	6.5	.1	15	106	.14	--	.84
05...	--	8A	--	--	--	--	--	--	--	--
20-21	1.1	--	10	9.3	.2	15	192	.26	--	.48
21...	--	15A	--	--	--	--	--	--	--	--
FEB										
02...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
16-17	1.5	--	17	6.8	.2	15	167	.23	--	.41
16...	--	--	--	--	--	--	--	--	--	--
17...	--	120	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	--	--	--	--
30...	1.5	106	41	7.4	.2	14	183	.25	128	.33
MAY										
17-18	1.5	--	24	7.1	.2	15	165	.22	--	.20
18...	--	106	--	--	--	--	--	--	--	--
JUL										
19-20	1.4	--	28	7.2	.1	16	169	.23	--	.28
20...	--	104	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
SEP										
08...	1.2	102	30	7.0	.2	16	166	.23	30.1	.30

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
NOV										
16-17	.85	.15	.14	.44	.42	.59	.56	1.5	.05	.05
17...	--	--	--	--	--	--	--	--	--	--
DEC										
30...	.49	.12	.08	.45	.44	.57	.52	1.1	.04	.03
JAN										
04-05	.83	.11	.08	.70	.60	.81	.68	1.7	.16	.05
05...	--	--	--	--	--	--	--	--	--	--
20-21	.48	.20	.17	.45	.43	.65	.60	1.1	.06	.03
21...	--	--	--	--	--	--	--	--	--	--
FEB										
02...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
16-17	.38	.10	.08	.37	.31	.47	.39	.88	.06	.02
16...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	--	--	--	--
30...	.33	.15	.12	.26	.28	.41	.40	.74	.03	.03
MAY										
17-18	.19	.12	.12	.52	.44	.64	.56	.84	.07	.03
18...	--	--	--	--	--	--	--	--	--	--
JUL										
19-20	.29	.08	.08	--	.52	--	.60	--	.04	.02
20...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
SEP										
08...	.27	.26	.08	.34	.32	.60	.40	.90	.04	.01

A Bacterial sample collected and analyzed by Santa Clara Valley Water District.
 < Actual value is known to be less than the value shown.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

GUADALUPE RIVER BASIN--Continued
11168000 LOS GATOS CREEK AT LOS GATOS, CA--Continued

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)
NOV 16-17	--	--	--	60	--	--	--
DEC 30...	1000	--	--	70	--	--	--
JAN 04-05	--	90	1	30	1	<10	4
20-21	--	--	--	50	--	--	--
FEB 16-17	--	--	--	50	--	--	--
MAR 30...	0930	--	--	50	--	--	--
MAY 17-18	--	--	--	40	--	--	--
JUL 19-20	--	--	--	50	--	--	--
SEP 08...	0900	<10	1	50	<1	<10	1

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 16-17	97	--	--	--	--	--
DEC 30...	68	--	--	--	--	--
JAN 04-05	970	6	50	<.1	<100	10
20-21	110	--	--	--	--	--
FEB 16-17	22	--	--	--	--	--
MAR 30...	15	--	--	--	--	--
MAY 17-18	13	--	--	--	--	--
JUL 19-20	7	--	--	--	--	--
SEP 08...	4	<1	2	<.1	<100	<3

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
NOV 17...	0900	18	.4	--	--	--	--	--	--	--
DEC 30...	1000	5.2	.3	--	--	--	--	--	--	--
JAN 05...	1000	5.7	4.4	.00	.00	.00	.00	.00	.00	.00
21...	0850	3.2	.2	--	--	--	--	--	--	--
FEB 17...	0810	3.3	1.0	--	--	--	--	--	--	--
MAR 30...	0930	3.0	.3	--	--	--	--	--	--	--
MAY 18...	0920	2.1	.3	--	--	--	--	--	--	--
JUL 20...	0850	2.6	.3	--	--	--	--	--	--	--
SEP 08...	0900	2.2	.2	<.10	<.10	<.01	<.10	<.01	<.01	<.01

See footnotes at end of table.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

GUADALUPE RIVER BASIN--Continued
 11168000 LOS GATOS CREEK AT LOS GATOS, CA--Continued

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
NOV										
17...	--	--	--	--	--	--	--	--	--	--
DEC										
30...	--	--	--	--	--	--	--	--	--	--
JAN										
05...	.00	.00	.00	.00	.00	.00	--	.00	.00	.00
21...	--	--	--	--	--	--	--	--	--	--
FEB										
17...	--	--	--	--	--	--	--	--	--	--
MAR										
30...	--	--	--	--	--	--	--	--	--	--
MAY										
18...	--	--	--	--	--	--	--	--	--	--
JUL										
20...	--	--	--	--	--	--	--	--	--	--
SEP										
08...	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV										
17...	--	--	--	--	--	--	--	--	--	--
DEC										
30...	--	--	--	--	--	--	--	--	--	--
JAN										
05...	.00	.00	.00	.00	.00	0	.00	.01	.00	.00
21...	--	--	--	--	--	--	--	--	--	--
FEB										
17...	--	--	--	--	--	--	--	--	--	--
MAR										
30...	--	--	--	--	--	--	--	--	--	--
MAY										
18...	--	--	--	--	--	--	--	--	--	--
JUL										
20...	--	--	--	--	--	--	--	--	--	--
SEP										
08...	<.01	<.01	<.01	<.01	<.10	<1	<.01	<.01	<.01	<.01

< Actual value is known to be less than the value shown.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

GUADALUPE RIVER BASIN--Continued

11168660 LOS GATOS CREEK AT LARK AVENUE, AT LOS GATOS, CA

LOCATION.--Lat 37°15'07", long 121°57'48", in Rinconada de Los Gatos Grant, Santa Clara County, Hydrologic Unit 18050003, at bridge on Lark Avenue, 1,800 ft (549 m) downstream from Vasona Dam, and 2 mi (3 km) northeast of Los Gatos Post Office.

DRAINAGE AREA.--43.3 mi² (112.1 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1979 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)
NOV										
17...	0730	31	377	7.9	15.5	760	15	9.0	91	33
DEC										
30...	0835	.60	459	7.7	12.0	755	3.0	7.0	66	25
JAN										
05...	0800	192	182	7.8	10.0	750	240	10.8	97	40
21...	0745	16	366	7.8	8.5	755	24	10.8	93	16
FEB										
02...A	1125	5.5	--	--	9.5	--	--	--	--	--
09...A	1120	36	--	--	10.0	--	--	--	--	--
16...A	1150	129	--	--	13.0	--	--	--	--	--
17...	0715	43	303	8.0	13.0	765	56	10.2	96	30
23...A	1135	170	--	--	10.0	--	--	--	--	--
MAR										
02...A	1315	221	--	--	12.0	--	--	--	--	--
30...	0800	388	297	8.0	10.5	760	33	11.0	99	21
MAY										
18...	0825	31	293	8.2	15.0	755	8.6	9.7	97	15
JUL										
20...	0730	32	289	8.1	20.0	755	4.1	8.5	94	12
27...A	1135	32	--	--	20.0	--	--	--	--	--
AUG										
03...A	0720	26	--	--	19.0	--	--	--	--	--
10...A	0730	19	--	--	19.0	--	--	--	--	--
16...A	0730	20	--	--	18.0	--	--	--	--	--
24...A	0715	25	--	--	19.0	--	--	--	--	--
SEP										
08...	0730	63	279	7.8	17.5	755	3.0	9.2	97	12
DATE		COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO
NOV										
17...	--	--	--	--	170	40	40	17	16	.6
DEC										
30...	--	--	--	--	209	29	49	21	18	.6
JAN										
05...	--	--	--	--	84	10	19	8.9	7.4	.4
21...	--	--	--	--	172	29	39	18	14	.5
FEB										
02...	160	85	12	--	--	--	--	--	--	--
09...	1000	460	45	--	--	--	--	--	--	--
16...	6200	1400	1400	--	--	--	--	--	--	--
17...	--	--	--	--	138	26	32	14	11	.4
23...	1300	280	110	--	--	--	--	--	--	--
MAR										
02...	14000	2100	1900	--	--	--	--	--	--	--
30...	--	--	--	--	129	22	32	12	11	.4
MAY										
18...	--	--	--	--	138	20	34	13	11	.4
JUL										
20...	--	--	--	--	136	20	33	13	12	.5
27...	200	52	80	--	--	--	--	--	--	--
AUG										
03...	300	40	85	--	--	--	--	--	--	--
10...	250	75	160	--	--	--	--	--	--	--
16...	600	40	100	--	--	--	--	--	--	--
24...	200	40	110	--	--	--	--	--	--	--
SEP										
08...	--	--	--	--	127	21	31	12	9.9	.4

See footnotes at end of table.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

GUADALUPE RIVER BASIN--Continued
 11168660 LOS GATOS CREEK AT LARK AVENUE, AT LOS GATOS, CA--Continued

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
NOV										
17...	2.4	130	67	15	.2	7.1	243	.33	20.4	.88
DEC										
30...	2.9	180	29	28	.2	15	272	.37	.44	.98
JAN										
05...	1.9	74	6.0	12	.1	10	110	.15	57.2	1.1
21...	1.7	143	21	17	.2	16	213	.29	9.2	1.3
FEB										
02...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
17...	1.7	112	19	11	.1	14	170	.23	19.8	.73
23...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	--	--	--	--
30...	1.6	107	36	8.4	.2	14	180	.24	188	.40
MAY										
18...	1.6	118	29	9.3	.2	16	185	.25	15.5	.16
JUL										
20...	1.5	116	30	8.7	.1	15	183	.25	15.8	.10
27...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
SEP										
08...	1.2	106	32	7.9	.1	15	173	.24	29.4	.20

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
NOV										
17...	.88	.23	.26	.52	.41	.75	.67	1.6	.06	.06
DEC										
30...	.99	.14	.11	.52	.57	.66	.68	1.6	.12	.09
JAN										
05...	1.1	.12	.10	.84	.63	.96	.73	2.1	.18	.10
21...	1.3	.14	.15	.62	.61	.76	.76	2.1	.07	.06
FEB										
02...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
17...	.72	.10	.09	.64	.40	.74	.49	1.5	.07	.04
23...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	--	--	--	--
30...	.40	.15	.11	.33	.18	.48	.29	.88	.07	.04
MAY										
18...	.16	.10	.11	.47	.28	.57	.39	.73	.07	.01
JUL										
20...	.10	.12	.11	.98	--	1.1	--	1.2	.01	.01
27...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
SEP										
08...	.15	.22	.10	.68	.70	.90	.80	1.1	.04	<.01

A Bacterial sample collected and analyzed by Santa Clara Valley Water District.
 < Actual value is known to be less than the value shown.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS
WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

GUADALUPE RIVER BASIN--Continued
11168660 LOS GATOS CREEK AT LARK AVENUE, AT LOS GATOS, CA--Continued

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)
NOV								
17...	0730	--	--	--	--	50	--	--
DEC								
30...	0835	--	--	--	--	60	--	--
JAN								
05...	0800	40	7500	1	7	40	1	1
21...	0745	--	--	--	--	50	--	--
FEB								
17...	0715	--	--	--	--	50	--	--
MAR								
30...	0800	--	--	--	--	50	--	--
MAY								
18...	0825	--	--	--	--	40	--	--
JUL								
20...	0730	--	--	--	--	50	--	--
SEP								
08...	0730	<10	3300	1	4	50	<1	<1

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV									
17...	--	--	--	--	--	40	--	--	--
DEC									
30...	--	--	--	--	--	26	--	--	--
JAN									
05...	<10	30	10	2	17	85	14000	6	30
21...	--	--	--	--	--	52	--	--	--
FEB									
17...	--	--	--	--	--	74	--	--	--
MAR									
30...	--	--	--	--	--	14	--	--	--
MAY									
18...	--	--	--	--	--	<9	--	--	--
JUL									
20...	--	--	--	--	--	8	--	--	--
SEP									
08...	<10	20	10	1	15	<3	8000	<1	20

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
NOV								
17...	--	--	--	--	--	--	--	--
DEC								
30...	--	--	--	--	--	--	--	--
JAN								
05...	10	460	<.1	.08	<100	<1	10	60
21...	--	--	--	--	--	--	--	--
FEB								
17...	--	--	--	--	--	--	--	--
MAR								
30...	--	--	--	--	--	--	--	--
MAY								
18...	--	--	--	--	--	--	--	--
JUL								
20...	--	--	--	--	--	--	--	--
SEP								
08...	20	310	<.1	.05	<100	<1	<10	47

< Actual value is known to be less than the value shown.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

GUADALUPE RIVER BASIN--Continued
 11168660 LOS GATOS CREEK AT LARK AVENUE, AT LOS GATOS, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
NOV 17...	0730	15	.9	--	--	--	--	--	--	--
DEC 30...	0835	5.9	.3	--	--	--	--	--	--	--
JAN 05...	0800	6.3	4.0	.00	.00	.00	.00	.00	.00	.00
JAN 21...	0745	4.2	.6	--	--	--	--	--	--	--
FEB 17...	0715	5.2	.8	--	--	--	--	--	--	--
MAR 30...	0800	3.6	.5	--	--	--	--	--	--	--
MAY 18...	0825	2.2	.5	--	--	--	--	--	--	--
JUL 20...	0730	2.8	.4	--	--	--	--	--	--	--
SEP 08...	0730	2.5	.4	<.10	<.10	<.01	<.10	<.01	<.01	<.01

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
NOV 17...	--	--	--	--	--	--	--	--	--	--
DEC 30...	--	--	--	--	--	--	--	--	--	--
JAN 05...	.01	.00	.00	.00	.00	.00	.00	.00	.10	.00
JAN 21...	--	--	--	--	--	--	--	--	--	--
FEB 17...	--	--	--	--	--	--	--	--	--	--
MAR 30...	--	--	--	--	--	--	--	--	--	--
MAY 18...	--	--	--	--	--	--	--	--	--	--
JUL 20...	--	--	--	--	--	--	--	--	--	--
SEP 08...	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 17...	--	--	--	--	--	--	--	--	--	--
DEC 30...	--	--	--	--	--	--	--	--	--	--
JAN 05...	.00	.00	.00	.00	.00	0	.00	.02	.00	.01
JAN 21...	--	--	--	--	--	--	--	--	--	--
FEB 17...	--	--	--	--	--	--	--	--	--	--
MAR 30...	--	--	--	--	--	--	--	--	--	--
MAY 18...	--	--	--	--	--	--	--	--	--	--
JUL 20...	--	--	--	--	--	--	--	--	--	--
SEP 08...	<.01	<.01	<.01	<.01	<.10	<1	<.01	<.01	<.01	<.01

< Actual value is known to be less than the value shown.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

GUADALUPE RIVER BASIN--Continued

11168800 LOS GATOS CREEK AT LINCOLN AVENUE, AT SAN JOSE, CA

LOCATION.--Lat 37°18'45", long 121°54'12", in San Juan Bautista Grant, Santa Clara County, Hydrologic Unit 18050003, on right bank 100 ft (30 m) upstream from Lincoln Avenue bridge, 0.6 mi (1.0 km) downstream from Dry Creek.

DRAINAGE AREA.--48.4 mi² (125.4 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPF- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)
NOV										
17...	1225	2.2	259	7.8	15.5	770	2.2	9.0	89	32
DEC										
30...	1350	3.9	408	8.4	14.5	760	1.0	11.2	110	15
JAN										
05...	1445	41	204	7.8	11.0	760	180	10.5	95	29
21...	1220	1.7	225	7.9	7.5	760	8.8	11.3	95	18
FEB										
09...A	0740	30	--	--	9.0	--	--	--	--	--
16...A	0800	74	--	--	12.0	--	--	--	--	--
17...	1150	9.4	321	8.6	14.0	770	9.2	10.7	103	24
23...A	0730	114	--	--	10.0	--	--	--	--	--
MAR										
02...A	0930	100	--	--	12.0	--	--	--	--	--
30...	1400	251	296	8.2	11.0	760	32	11.2	102	15
AUG										
10...A	1115	1.4	--	--	21.0	--	--	--	--	--
24...A	1050	4.2	--	--	22.0	--	--	--	--	--
SEP										
08...	1255	1.0	295	7.6	23.5	760	1.5	8.3	98	42
DATE		COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)	COLI- FORM, FFCAL, 0.45 UM-WF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO
NOV										
17...	--	--	--	--	73	15	17	7.4	23	1.2
DEC										
30...	--	--	--	--	117	31	27	12	37	1.5
JAN										
05...	--	--	--	--	87	13	20	9.1	9.9	.5
21...	--	--	--	--	81	9	19	8.1	14	.7
FEB										
09...	650	50	40	--	--	--	--	--	--	--
16...	17000	2700	3100	--	--	--	--	--	--	--
17...	--	--	--	--	140	30	33	14	15	.6
23...	7000	350	170	--	--	--	--	--	--	--
MAR										
02...	47000	3300	6300	--	--	--	--	--	--	--
30...	--	--	--	--	127	19	31	12	11	.4
AUG										
10...	1400	240	480	--	--	--	--	--	--	--
24...	500	390	430	--	--	--	--	--	--	--
SEP										
08...	--	--	--	--	128	24	30	13	14	.6

See footnotes at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS
WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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GUADALUPE RIVER BASIN--Continued
11168800 LOS GATOS CREEK AT LINCOLN AVENUE, AT SAN JOSE, CA--Continued

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
NOV 17...	2.2	58	20	35	.1	7.4	147	.20	.88	.47
DEC 30...	1.9	86	46	50	.1	12	238	.32	2.5	.99
JAN 05...	1.9	74	6.0	19	.1	10	121	.16	13.4	1.2
21...	1.4	72	16	15	.1	7.0	124	.17	.57	.54
FEB 09...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
17...	1.8	110	31	13	.1	11	185	.25	4.7	.68
23...	--	--	--	--	--	--	--	--	--	--
MAR 02...	--	--	--	--	--	--	--	--	--	--
30...	1.5	108	37	8.9	.2	14	181	.25	122	.40
AUG 10...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
SEP 08...	1.6	104	30	12	.1	12	175	.24	.47	.10

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
NOV 17...	.46	.11	.15	.46	.35	.57	.50	1.0	.08	.08
DEC 30...	.98	.12	.07	.54	.48	.66	.55	1.7	.07	.05
JAN 05...	1.2	.13	.11	.65	.70	.78	.81	2.0	.16	.09
21...	.60	.18	.13	.55	.34	.73	.47	1.3	.08	.06
FEB 09...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
17...	.65	.09	.09	.58	.40	.67	.49	1.4	.04	.02
23...	--	--	--	--	--	--	--	--	--	--
MAR 02...	--	--	--	--	--	--	--	--	--	--
30...	.40	.10	.12	.42	.39	.52	.51	.92	.02	.03
AUG 10...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
SEP 08...	.13	.22	.14	.78	.46	1.0	.60	1.1	.03	.01

A Bacterial sample collected and analyzed by Santa Clara Valley Water District.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

GUADALUPE RIVER BASIN--Continued

11168800 LOS GATOS CREEK AT LINCOLN AVENUE, AT SAN JOSE, CA--Continued

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- INUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)
NOV								
17...	1225	--	--	--	--	60	--	--
DEC								
30...	1350	--	--	--	--	130	--	--
JAN								
05...	1445	30	6500	1	5	40	1	1
21...	1220	--	--	--	--	60	--	--
FEB								
17...	1150	--	--	--	--	60	--	--
MAR								
30...	1400	--	--	--	--	60	--	--
SEP								
08...	1255	<10	1900	1	15	70	<1	<1

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV									
17...	--	--	--	--	--	49	--	--	--
DEC									
30...	--	--	--	--	--	<10	--	--	--
JAN									
05...	<10	30	10	2	21	59	13000	6	60
21...	--	--	--	--	--	52	--	--	--
FEB									
17...	--	--	--	--	--	75	--	--	--
MAR									
30...	--	--	--	--	--	10	--	--	--
SEP									
08...	<10	6	<10	2	9	10	3200	<1	20

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
NOV								
17...	--	--	--	--	--	--	--	--
DEC								
30...	--	--	--	--	--	--	--	--
JAN								
05...	10	270	<.1	.07	<100	<1	<10	80
21...	--	--	--	--	--	--	--	--
FEB								
17...	--	--	--	--	--	--	--	--
MAR								
30...	--	--	--	--	--	--	--	--
SEP								
08...	<10	110	<.1	.03	<100	<1	10	34

< Actual value is known to be less than the value shown.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

GUADALUPE RIVER BASIN--Continued
 11168800 LOS GATOS CREEK AT LINCOLN AVENUE, AT SAN JOSE, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
NOV 17...	1225	14	.4	--	--	--	--	--	--	--
DEC 30...	1350	3.5	.2	--	--	--	--	--	--	--
JAN 05...	1445	6.2	2.6	.00	.00	.00	.00	.00	.00	.00
21...	1220	4.3	.4	--	--	--	--	--	--	--
FEB 17...	1150	5.5	.3	--	--	--	--	--	--	--
MAR 30...	1400	3.4	.7	--	--	--	--	--	--	--
SEP 08...	1255	3.0	.1	<.10	<.10	<.01	<.10	<.01	<.01	<.01

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDORIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
NOV 17...	--	--	--	--	--	--	--	--	--	--
DEC 30...	--	--	--	--	--	--	--	--	--	--
JAN 05...	.03	.00	.00	.00	.00	.00	.00	.01	.13	.00
21...	--	--	--	--	--	--	--	--	--	--
FEB 17...	--	--	--	--	--	--	--	--	--	--
MAR 30...	--	--	--	--	--	--	--	--	--	--
SEP 08...	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 17...	--	--	--	--	--	--	--	--	--	--
DEC 30...	--	--	--	--	--	--	--	--	--	--
JAN 05...	.00	.00	.00	.00	.00	0	.00	.02	.00	.00
21...	--	--	--	--	--	--	--	--	--	--
FEB 17...	--	--	--	--	--	--	--	--	--	--
MAR 30...	--	--	--	--	--	--	--	--	--	--
SEP 08...	<.01	<.01	<.01	<.01	<.10	<1	<.01	.02	<.01	<.01

< Actual value is known to be less than the value shown.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

GUADALUPE RIVER BASIN--Continued

11169000 GUADALUPE RIVER AT SAN JOSE, CA

LOCATION.--Lat 37°20'04", long 121°53'54", Santa Clara County, Hydrologic Unit 18050003, on right bank at San Jose, 100 ft (30 km) downstream from Los Gatos Creek.

DRAINAGE AREA.--144 mi² (373 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1979 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPF- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD) UNITS)	TEMPER- ATURE (DEG C)	HARD- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)
NOV										
17...	1330	128	289	7.8	15.5	770	70	8.6	85	50
DEC										
30...	1450	27	375	8.0	13.0	760	52	9.5	90	30
JAN										
05...	1615	943	242	7.9	11.0	760	270	10.5	95	47
21...	1330	137	369	8.0	9.0	760	6.0	11.0	95	23
FEB										
02...A	0745	13	--	--	10.0	--	--	--	--	--
09...A	0755	.69	--	--	10.0	--	--	--	--	--
16...A	0815	693	--	--	12.0	--	--	--	--	--
17...	1255	348	362	8.6	12.0	770	50	10.0	92	28
23...A	0745	195	--	--	10.0	--	--	--	--	--
MAR										
02...A	0940	487	--	--	13.0	--	--	--	--	--
30...	1515	480	323	8.1	11.0	765	48	10.4	94	16
MAY										
18...	1235	3.7	918	8.3	17.5	760	.50	12.1	127	18
JUL										
20...	1315	3.2	864	8.4	21.5	765	4.2	12.7	144	12
27...A	0730	3.2	--	--	19.0	--	--	--	--	--
AUG										
03...A	1115	3.2	--	--	19.0	--	--	--	--	--
10...A	1105	3.2	--	--	20.0	--	--	--	--	--
16...A	1050	2.4	--	--	19.0	--	--	--	--	--
24...A	1040	5.1	--	--	21.0	--	--	--	--	--
SEP										
08...	1400	2.8	498	7.5	23.0	760	1.5	9.9	116	30

DATE	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)	COLI- FORM, FECAL, 0.45 UM-VF (COLS./ 100 ML)	STREP- TOCOCCEI FECAL, (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
NOV										
17...	--	--	--	122	20	21	17	13	18	.5
DEC										
30...	--	--	--	158	28	27	22	18	20	.6
JAN										
05...	--	--	--	113	13	19	16	9.5	15	.4
21...	--	--	--	170	26	27	25	14	15	.5
FEB										
02...	3200	200	110	--	--	--	--	--	--	--
09...	9500	320	70	--	--	--	--	--	--	--
16...	11000	4600	4600	--	--	--	--	--	--	--
17...	--	--	--	172	12	31	23	12	13	.4
23...	2600	190	250	--	--	--	--	--	--	--
MAR										
02...	45000	5300	4500	--	--	--	--	--	--	--
30...	--	--	--	149	27	30	18	11	14	.4
MAY										
18...	--	--	--	429	45	63	66	51	20	1.1
JUL										
20...	--	--	--	359	59	58	52	64	28	1.5
27...	26000	5000	820	--	--	--	--	--	--	--
AUG										
03...	3500	210	340	--	--	--	--	--	--	--
10...	4000	700	270	--	--	--	--	--	--	--
16...	8500	260	320	--	--	--	--	--	--	--
24...	23000	2500	950	--	--	--	--	--	--	--
SEP										
08...	--	--	--	200	62	42	23	30	24	.9

See footnote at end of table.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

GUADALUPE RIVER BASIN--Continued
 11169000 GUADALUPE RIVER AT SAN JOSE, CA--Continued

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
NOV										
17...	2.5	102	7.0	18	.1	11	151	.21	52.4	1.0
DEC										
30...	1.9	130	24	24	.1	12	208	.24	15.1	1.2
JAN										
05...	2.6	100	6.0	12	.1	16	142	.19	362	1.4
21...	1.7	144	9.0	30	.1	15	209	.28	77.2	1.7
FEB										
02...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
17...	1.5	160	7.0	16	.1	17	204	.28	192	.42
23...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	--	--	--	--
30...	1.5	122	25	11	.2	15	145	.25	240	.56
MAY										
18...	2.2	384	83	50	.3	21	567	.77	5.7	2.4
JUL										
20...	2.0	300	130	32	.3	20	539	.73	4.7	1.2
27...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
SEP										
08...	2.2	138	42	37	.2	17	277	.38	2.1	.40

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
NOV										
17...	.98	.16	.16	.53	.51	.69	.67	1.7	.20	.14
DEC										
30...	1.2	.15	.10	.69	.73	.84	.83	2.0	.21	.11
JAN										
05...	1.8	.17	.13	1.2	.97	1.4	1.1	3.2	.25	.16
21...	1.7	.24	.15	.61	.64	.85	.79	2.6	.15	.12
FEB										
02...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
17...	.80	.11	.08	.57	.37	.68	.45	1.5	.06	.04
23...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	--	--	--	--
30...	.56	.13	.12	.42	.35	.55	.47	1.1	.08	.05
MAY										
12...	2.6	.15	.12	.95	.68	1.1	.80	3.5	.15	.09
JUL										
20...	1.2	.06	.06	1.8	1.1	1.9	1.2	3.1	.20	.19
27...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
SEP										
08...	.35	.23	.13	.77	.67	1.0	.80	1.4	.09	.08

A Bacterial sample collected and analyzed by Santa Clara Valley Water District.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

GUADALUPE RIVER BASIN--Continued
 11169000 GUADALUPE RIVER AT SAN JOSE, CA--Continued

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- INUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)
NOV								
17...	1330	--	--	--	--	60	--	--
DEC								
30...	1450	--	--	--	--	90	--	--
JAN								
05...	1615	40	9500	2	8	60	1	1
21...	1330	--	--	--	--	80	--	--
FEB								
17...	1255	--	--	--	--	80	--	--
MAR								
30...	1515	--	--	--	--	80	--	--
MAY								
18...	1235	--	--	--	--	210	--	--
JUL								
20...	1315	--	--	--	--	180	--	--
SEP								
08...	1400	<10	49000	2	3	100	<1	<1

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV									
17...	--	--	--	--	--	34	--	--	--
DEC									
30...	--	--	--	--	--	20	--	--	--
JAN									
05...	<10	60	20	2	27	150	16000	6	60
21...	--	--	--	--	--	22	--	--	--
FEB									
17...	--	--	--	--	--	38	--	--	--
MAR									
30...	--	--	--	--	--	34	--	--	--
MAY									
18...	--	--	--	--	--	<9	--	--	--
JUL									
20...	--	--	--	--	--	<3	--	--	--
SEP									
08...	<10	10	<10	5	13	40	4500	<1	60

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
NOV								
17...	--	--	--	--	--	--	--	--
DEC								
30...	--	--	--	--	--	--	--	--
JAN								
05...	20	330	<.1	1.7	<100	<1	10	100
21...	--	--	--	--	--	--	--	--
FEB								
17...	--	--	--	--	--	--	--	--
MAR								
30...	--	--	--	--	--	--	--	--
MAY								
18...	--	--	--	--	--	--	--	--
JUL								
20...	--	--	--	--	--	--	--	--
SEP								
08...	20	150	<.1	.08	<100	<1	30	70

< Actual value is known to be less than the value shown.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

GUADALUPE RIVER BASIN--Continued
 11169000 GUADALUPE RIVER AT SAN JOSE, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
NOV 17...	1330	18	1.8	--	--	--	--	--	--	--
DEC 30...	1450	5.0	1.1	--	--	--	--	--	--	--
JAN 05...	1615	8.7	5.3	.00	.00	.00	.00	.01	.01	.00
21...	1330	5.4	1.3	--	--	--	--	--	--	--
FEB 17...	1255	4.0	.6	--	--	--	--	--	--	--
MAR 30...	1515	3.5	.8	--	--	--	--	--	--	--
MAY 18...	1235	3.5	.2	--	--	--	--	--	--	--
JUL 20...	1315	3.5	.2	--	--	--	--	--	--	--
SEP 08...	1400	3.2	.2	<.10	<.10	<.01	<.10	<.01	<.01	<.01

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN, TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
NOV 17...	--	--	--	--	--	--	--	--	--	--
DEC 30...	--	--	--	--	--	--	--	--	--	--
JAN 05...	.07	.00	.00	.00	.00	.00	.00	.01	.09	.00
21...	--	--	--	--	--	--	--	--	--	--
FEB 17...	--	--	--	--	--	--	--	--	--	--
MAR 30...	--	--	--	--	--	--	--	--	--	--
MAY 18...	--	--	--	--	--	--	--	--	--	--
JUL 20...	--	--	--	--	--	--	--	--	--	--
SEP 08...	.16	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 17...	--	--	--	--	--	--	--	--	--	--
DEC 30...	--	--	--	--	--	--	--	--	--	--
JAN 05...	.00	.00	.00	.00	.00	0	.00	.02	.00	.00
21...	--	--	--	--	--	--	--	--	--	--
FEB 17...	--	--	--	--	--	--	--	--	--	--
MAR 30...	--	--	--	--	--	--	--	--	--	--
MAY 18...	--	--	--	--	--	--	--	--	--	--
JUL 20...	--	--	--	--	--	--	--	--	--	--
SEP 08...	<.01	<.01	<.01	<.01	<.10	<1	<.01	.02	<.01	<.01

< Actual value is known to be less than the value shown.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

COYOTE CREEK BASIN

11169970 COYOTE CREEK BELOW LEROY ANDERSON DAM, NEAR MADRONE, CA

LOCATION.--Lat 37°09'54", long 121°37'56", in southeast corner of La Laguna Seca Grant, Santa Clara County, Hydrologic Unit 18050003, on left bank 500 ft (152 m) downstream from release at Leroy Anderson Dam, 2.3 mi (3.7 km) northeast of Madrone.

DRAINAGE AREA.--195 mi² (505 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW- INSTAN- TANEOUS (CFS)	SPH- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD) UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, MEM.FIL (COLS./ 100 ML)
NOV										
18...	0900	7.2	349	8.0	13.5	760	2.9	10.1	97	--
DEC										
31...	1000	8.4	358	8.2	13.0	755	25	10.4	100	--
JAN										
06...	1000	8.8	308	8.1	11.0	760	160	10.7	97	--
22...	0850	8.0	343	8.1	10.0	765	44	11.2	99	--
FEB										
02...A	0915	17	--	--	10.0	--	--	--	--	50
09...A	0910	16	--	--	10.0	--	--	--	--	40
16...A	1000	6.0	--	--	12.0	--	--	--	--	220
18...	0915	5.5	297	8.2	10.0	760	120	11.0	98	--
23...A	0930	140	--	--	10.5	--	--	--	--	60
MAR										
02...A	1100	116	--	--	10.5	--	--	--	--	150
31...	0945	350	327	8.1	10.5	750	16	11.0	100	--
MAY										
18...	1400	21	314	8.1	11.0	750	14	11.0	101	--
JUL										
21...	0930	63	312	8.0	12.0	755	20	10.7	100	--
27...A	0900	63	--	--	12.0	--	--	--	--	100
AUG										
03...A	0930	74	--	--	12.0	--	--	--	--	35
10...A	0950	74	--	--	12.0	--	--	--	--	100
16...A	0940	76	--	--	12.0	--	--	--	--	15
24...A	0930	76	--	--	12.0	--	--	--	--	5
SEP										
07...	0915	68	314	7.7	12.0	750	11	10.6	100	--

DATE	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOC- FECAL, (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
NOV										
18...	--	--	151	5	34	16	16	18	.6	2.1
DEC										
31...	--	--	158	10	37	16	17	19	.6	1.9
JAN										
06...	--	--	137	15	30	15	15	19	.6	1.9
22...	--	--	156	20	36	16	18	20	.6	1.7
FEB										
02...	20	18	--	--	--	--	--	--	--	--
09...	16	17	--	--	--	--	--	--	--	--
16...	110	80	--	--	--	--	--	--	--	--
18...	--	--	128	16	30	13	13	18	.5	1.9
23...	25	18	--	--	--	--	--	--	--	--
MAR										
02...	19	60	--	--	--	--	--	--	--	--
31...	--	--	140	10	33	14	15	19	.6	2.0
MAY										
18...	--	--	131	9	31	13	14	19	.5	1.9
JUL										
21...	--	--	133	11	32	13	16	20	.6	1.8
27...	100	2	--	--	--	--	--	--	--	--
AUG										
03...	1	32	--	--	--	--	--	--	--	--
10...	1	2	--	--	--	--	--	--	--	--
16...	1	4	--	--	--	--	--	--	--	--
24...	1	5	--	--	--	--	--	--	--	--
SEP										
07...	--	--	131	17	31	13	14	19	.5	1.6

See footnote at end of table.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

COYOTE CREEK BASIN--Continued
 11169970 COYOTE CREEK BELOW LEROY ANDERSON DAM, NEAR MADRONE, CA--Continued

DATE	ALKA- LITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
NOV										
18...	146	42	13	.2	11	222	.30	4.3	.24	.25
DEC										
31...	148	40	12	.2	9.6	223	.30	5.1	.13	.13
JAN										
06...	122	19	14	.2	11	180	.24	4.3	.42	.39
22...	136	36	13	.2	11	214	.29	4.6	.23	.24
FFB										
02...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
18...	112	24	8.8	.1	10	168	.23	2.5	.26	.26
23...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	--	--	--	--
31...	130	27	11	.2	10	190	.26	180	.25	.24
MAY										
18...	122	19	9.6	.2	11	173	.24	9.8	.22	.24
JUL										
21...	122	31	9.6	.1	11	188	.26	32.0	.31	.31
27...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
SEP										
07...	114	30	9.8	.3	11	179	.24	32.9	.30	.31

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
NOV									
18...	.30	.29	.35	.42	.65	.71	.89	.03	--
DEC									
31...	.13	.09	.54	.48	.67	.57	.80	.05	.02
JAN									
06...	.11	.08	.69	.50	.80	.58	1.2	.10	.04
22...	.14	.11	.50	.49	.64	.60	.87	.05	.03
FFB									
02...	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
18...	.12	.10	.56	.53	.68	.63	.94	.05	.02
23...	--	--	--	--	--	--	--	--	--
MAR									
02...	--	--	--	--	--	--	--	--	--
31...	.09	.08	.45	.35	.54	.43	.79	.03	.02
MAY									
18...	.13	.09	.57	.45	.70	.54	.92	.04	.03
JUL									
21...	.10	.08	1.3	.72	1.4	.80	1.7	.03	.02
27...	--	--	--	--	--	--	--	--	--
AUG									
03...	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
SEP									
07...	.25	.10	.35	.51	.60	.61	.90	.11	.01

A Bacterial sample collected and analyzed by Santa Clara Valley Water District.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

COYOTE CREEK BASIN--Continued

11169970 COYOTE CREEK BELOW LEROY ANDERSON DAM, NEAR MADRONE, CA--Continued

		ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- INUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	
DATE	TIME								
NOV									
18...	0900	--	--	--	--	80	--	--	
DEC									
31...	1000	--	--	--	--	100	--	--	
JAN									
06...	1000	<10	5000	2	8	80	<1	<1	
22...	0850	--	--	--	--	90	--	--	
FEB									
18...	0915	--	--	--	--	90	--	--	
MAR									
31...	0945	--	--	--	--	100	--	--	
MAY									
18...	1400	--	--	--	--	70	--	--	
JUL									
21...	0930	--	--	--	--	80	--	--	
SEP									
07...	0915	10	2600	1	4	80	<1	<1	
		CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV									
18...	--	--	--	--	--	--	<10	--	--
DEC									
31...	--	--	--	--	--	--	<10	--	--
JAN									
06...	<10	20	20	2	18	24	8500	<1	10
22...	--	--	--	--	--	28	--	--	--
FEB									
18...	--	--	--	--	--	30	--	--	--
MAR									
31...	--	--	--	--	--	30	--	--	--
MAY									
18...	--	--	--	--	--	23	--	--	--
JUL									
21...	--	--	--	--	--	15	--	--	--
SEP									
07...	<10	20	20	3	14	<3	6500	<1	<10
		MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
NOV									
18...	--	--	--	--	--	--	--	--	--
DEC									
31...	--	--	--	--	--	--	--	--	--
JAN									
06...	10	850	<.1	.07	<100	<1	10	24	
22...	--	--	--	--	--	--	--	--	--
FEB									
18...	--	--	--	--	--	--	--	--	--
MAR									
31...	--	--	--	--	--	--	--	--	--
MAY									
18...	--	--	--	--	--	--	--	--	--
JUL									
21...	--	--	--	--	--	--	--	--	--
SEP									
07...	<10	1200	<.1	.06	<100	<1	10	21	

< Actual value is known to be less than the value shown.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

COYOTE CREEK BASIN--Continued
 11169970 COYOTE CREEK BELOW LEROY ANDERSON DAM, NEAR MADRONE, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
NOV 18...	0900	9.8	.4	--	--	--	--	--	--	--
DEC 31...	1000	4.5	.9	--	--	--	--	--	--	--
JAN 06...	1000	5.6	1.3	.00	.00	.00	.00	.00	.00	.00
JAN 22...	0850	4.9	.6	--	--	--	--	--	--	--
FEB 18...	0915	5.7	.6	--	--	--	--	--	--	--
MAR 31...	0945	4.8	.2	--	--	--	--	--	--	--
MAY 18...	1400	4.1	.2	--	--	--	--	--	--	--
JUL 21...	0930	4.6	.2	--	--	--	--	--	--	--
SEP 07...	0915	4.4	.2	<.10	<.10	<.01	<.10	<.01	<.01	<.01

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
NOV 18...	--	--	--	--	--	--	--	--	--	--
DEC 31...	--	--	--	--	--	--	--	--	--	--
JAN 06...	<.01	.00	.00	.00	.00	.00	.00	.00	<.01	.00
JAN 22...	--	--	--	--	--	--	--	--	--	--
FEB 18...	--	--	--	--	--	--	--	--	--	--
MAR 31...	--	--	--	--	--	--	--	--	--	--
MAY 18...	--	--	--	--	--	--	--	--	--	--
JUL 21...	--	--	--	--	--	--	--	--	--	--
SEP 07...	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 18...	--	--	--	--	--	--	--	--	--	--
DEC 31...	--	--	--	--	--	--	--	--	--	--
JAN 06...	.00	.00	.00	.00	.00	0	.00	.02	.00	.00
JAN 22...	--	--	--	--	--	--	--	--	--	--
FEB 18...	--	--	--	--	--	--	--	--	--	--
MAR 31...	--	--	--	--	--	--	--	--	--	--
MAY 18...	--	--	--	--	--	--	--	--	--	--
JUL 21...	--	--	--	--	--	--	--	--	--	--
SEP 07...	<.01	<.01	<.01	<.01	<.10	<1	<.01	<.01	<.01	<.01

< Actual value is known to be less than the value shown.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

COYOTE CREEK BASIN--Continued

11171500 COYOTE CREEK NEAR EDENVALE, CA

LOCATION.--Lat 38°16'15", long 121°47'47", at east boundary of Santa Teresa Grant, Santa Clara County, Hydrologic Unit 18050003, at "The Narrows," 1.5 mi (2.4 km) northeast of Edenvale, and 7 mi (11 km) south of San Jose.

DRAINAGE AREA.--229 mi² (593 km²).

REMARKS.--Multi-date sample was collected by automatic sampler and composited.

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1979 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)
NOV										
17-18	--	--	527	--	--	--	30	--	--	--
18...	0750	11	551	8.0	12.5	770	--	8.5	79	--
DEC										
31...	0830	.60	489	7.4	11.0	760	5.6	5.5	50	--
JAN										
05-06	--	--	195	--	--	--	270	--	--	--
06...	0815	406	207	7.8	8.5	765	--	10.1	86	--
21-22	--	--	363	--	--	--	130	--	--	--
22...	0715	53	365	7.9	6.0	770	--	10.8	86	--
FEB										
02...A	0840	6.4	--	--	10.0	--	--	--	--	200
09...A	0840	1.2	--	--	10.0	--	--	--	--	120
16...A	0930	74	--	--	14.0	--	--	--	--	2300
18...	0745	22	570	8.0	13.5	765	8.8	8.4	80	--
23...A	0905	49	--	--	10.0	--	--	--	--	1400
MAR										
02...A	1030	90	--	--	12.5	--	--	--	--	24000
31...	0800	486	239	7.9	10.5	755	48	10.0	90	--
MAY										
18...	1500	E3.0	618	8.2	20.5	760	.50	9.3	104	--
JUL										
20-21	--	--	457	--	--	--	76	--	--	--
21...	0800	4.2	453	8.0	22.0	760	--	6.8	78	--
27...A	0825	1.8	--	--	20.0	--	--	--	--	400
AUG										
03...A	1000	2.6	--	--	20.0	--	--	--	--	800
10...A	1015	1.6	--	--	20.0	--	--	--	--	250
16...A	1010	.80	--	--	19.0	--	--	--	--	400
24...A	0955	5.9	--	--	21.0	--	--	--	--	500
SEP										
07...	0730	5.5	442	7.7	20.5	755	.80	6.8	76	--

DATE	COLI- FORM, FECAL, 0.45 UP-MF (COLS./ 100 ML)	STREPT- OCOCCI FECAL, (COLS. PER 100 ML)	HARD- NESS (MG/L AS CaCO3)	HARD- NESS, NONCAR- BONATE (MG/L CaCO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
NOV										
17-18	--	--	230	50	46	28	24	18	.7	2.4
18...	--	--	--	--	--	--	--	--	--	--
DEC										
31...	--	--	213	49	44	25	22	18	.7	2.0
JAN										
05-06	--	--	83	12	15	11	7.8	17	.4	2.2
06...	--	--	--	--	--	--	--	--	--	--
21-22	--	--	159	19	29	21	16	18	.6	2.2
22...	--	--	--	--	--	--	--	--	--	--
FEB										
02...	100	40	--	--	--	--	--	--	--	--
09...	52	24	--	--	--	--	--	--	--	--
16...	1900	3000	--	--	--	--	--	--	--	--
18...	--	--	249	45	47	32	26	18	.7	2.4
23...	600	340	--	--	--	--	--	--	--	--
MAR										
02...	1800	3700	--	--	--	--	--	--	--	--
31...	--	--	104	12	22	12	11	18	.5	2.1
MAY										
18...	--	--	278	50	52	36	28	18	.7	1.9
JUL										
20-21	--	--	204	31	42	24	22	19	.7	1.4
21...	--	--	--	--	--	--	--	--	--	--
27...	160	190	--	--	--	--	--	--	--	--
AUG										
03...	270	400	--	--	--	--	--	--	--	--
10...	170	110	--	--	--	--	--	--	--	--
16...	290	220	--	--	--	--	--	--	--	--
24...	110	220	--	--	--	--	--	--	--	--
SEP										
07...	--	--	193	35	41	22	19	18	.6	1.2

See footnote at end of table.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

COYOTE CREEK BASIN--Continued
 11171500 COYOTE CREEK NEAR EDENVALE, CA--Continued

DATE	ALKA- LITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
NOV										
17-18	--	44	25	.3	17	295	.40	--	3.8	3.7
18...	193	--	--	--	--	--	--	--	--	--
DEC										
31...	164	51	24	.2	12	279	.38	.45	4.3	4.3
JAN										
05-06	--	7.0	6.5	.2	13	106	.14	--	1.2	1.2
06...	86	--	--	--	--	--	--	--	--	--
21-22	--	7.0	25	.2	19	205	.28	--	2.0	2.0
22...	140	--	--	--	--	--	--	--	--	--
FEB										
02...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
18...	204	33	30	.2	18	311	.42	18.5	3.5	3.5
23...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	--	--	--	--
31...	92	7.0	8.7	.2	8.5	127	.17	167	.51	.51
MAY										
18...	228	60	31	.2	17	363	.49	--	4.5	4.4
JUL										
20-21	--	42	15	.2	15	266	.36	--	1.6	1.7
21...	176	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
SEP										
07...	158	42	15	.2	13	248	.34	3.7	2.0	2.0

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTH0, DIS- SOLVED (MG/L AS P)
NOV									
17-18	.18	.08	.82	.71	1.0	.79	4.8	.11	.09
18...	--	--	--	--	--	--	--	--	--
DEC									
31...	.11	.09	.99	.80	1.1	.89	5.4	.09	.06
JAN									
05-06	.16	.09	1.3	.91	1.5	1.0	2.7	.41	.24
06...	--	--	--	--	--	--	--	--	--
21-22	.22	.22	1.1	1.2	1.3	1.4	3.3	.23	.16
22...	--	--	--	--	--	--	--	--	--
FEB									
02...	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
18...	.09	.07	1.2	1.3	1.3	1.4	4.8	.08	.05
23...	--	--	--	--	--	--	--	--	--
MAR									
02...	--	--	--	--	--	--	--	--	--
31...	.16	.11	.66	.47	.82	.58	1.3	.18	.08
MAY									
18...	.13	.10	.65	.70	.78	.80	5.3	.03	.02
JUL									
20-21	.08	.09	1.8	.71	1.9	.80	3.5	.08	.03
21...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
AUG									
03...	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
SEP									
07...	.23	.13	.77	.67	1.0	.80	3.0	.03	<.01

A Bacterial sample collected and analyzed by Santa Clara Valley Water District.
 < Actual value is known to be less than the value shown.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

COYOTE CREEK BASIN--Continued
11171500 COYOTE CREEK NEAR EDENVALE, CA--Continued

DATE	TIME	ALUM- INUM. DIS- SOLVED (UG/L AS AL)	ALUM- RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)
NOV								
17-18	--	--	--	--	--	100	--	--
DEC								
31...	0830	--	--	--	--	90	--	--
JAN								
05-06	--	40	--	3	--	50	1	--
06...	0815	--	9000	--	8	--	--	1
21-22	--	--	--	--	--	70	--	--
FEB								
18...	0745	--	--	--	--	130	--	--
MAR								
31...	0800	--	--	--	--	60	--	--
MAY								
18...	1500	--	--	--	--	120	--	--
JUL								
20-21	--	--	--	--	--	100	--	--
SEP								
07...	0730	<10	1500	1	7	110	<1	<1

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV									
17-18	--	--	--	--	--	23	--	--	--
DEC									
31...	--	--	--	--	--	36	--	--	--
JAN									
05-06	<10	--	--	4	--	230	--	6	--
06...	--	60	20	--	32	--	16000	--	50
21-22	--	--	--	--	--	350	--	--	--
FEB									
18...	--	--	--	--	--	53	--	--	--
MAR									
31...	--	--	--	--	--	66	--	--	--
MAY									
18...	--	--	--	--	--	<9	--	--	--
JUL									
20-21	--	--	--	--	--	<3	--	--	--
SEP									
07...	<10	20	10	9	7	<3	4300	<1	20

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
NOV								
17-18	--	--	--	--	--	--	--	--
DEC								
31...	--	--	--	--	--	--	--	--
JAN								
05-06	<10	--	<.1	--	<100	--	10	--
06...	--	420	--	.37	--	<1	--	80
21-22	--	--	--	--	--	--	--	--
FEB								
18...	--	--	--	--	--	--	--	--
MAR								
31...	--	--	--	--	--	--	--	--
MAY								
18...	--	--	--	--	--	--	--	--
JUL								
20-21	--	--	--	--	--	--	--	--
SEP								
07...	<10	290	<.1	.05	<100	<1	30	27

< Actual value is known to be less than the value shown.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

COYOTE CREEK BASIN--Continued
 11171500 COYOTE CREEK NEAR EDENVALE, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
NOV 18...	0750	11	.3	--	--	--	--	--	--	--
DEC 31...	0830	3.7	.4	--	--	--	--	--	--	--
JAN 06...	0815	--	--	.00	.00	.00	.00	.02	.03	.00
22...	0715	8.8	1.5	--	--	--	--	--	--	--
FEB 18...	0745	6.6	.5	--	--	--	--	--	--	--
MAR 31...	0800	4.9	2.2	--	--	--	--	--	--	--
MAY 18...	1500	2.1	.1	--	--	--	--	--	--	--
JUL 21...	0800	3.5	.2	--	--	--	--	--	--	--
SEP 07...	0730	3.3	.1	<.10	<.10	<.01	<.10	<.01	<.01	<.01

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
NOV 18...	--	--	--	--	--	--	--	--	--	--
DEC 31...	--	--	--	--	--	--	--	--	--	--
JAN 06...	.06	.01	.00	.01	.00	.00	.00	.00	.03	.00
22...	--	--	--	--	--	--	--	--	--	--
FEB 18...	--	--	--	--	--	--	--	--	--	--
MAR 31...	--	--	--	--	--	--	--	--	--	--
MAY 18...	--	--	--	--	--	--	--	--	--	--
JUL 21...	--	--	--	--	--	--	--	--	--	--
SEP 07...	.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 18...	--	--	--	--	--	--	--	--	--	--
DEC 31...	--	--	--	--	--	--	--	--	--	--
JAN 06...	.00	.00	.00	.00	.00	0	.00	.02	.00	.00
22...	--	--	--	--	--	--	--	--	--	--
FEB 18...	--	--	--	--	--	--	--	--	--	--
MAR 31...	--	--	--	--	--	--	--	--	--	--
MAY 18...	--	--	--	--	--	--	--	--	--	--
JUL 21...	--	--	--	--	--	--	--	--	--	--
SEP 07...	<.01	<.01	<.01	<.01	<.10	<1	<.01	<.01	<.01	<.01

< Actual value is known to be less than the value shown.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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, Hydrologic Unit 18010102, Redwood National Park, on left bank 150 ft (46 m) upstream from Harry Wier Creek, 7.2 mi (11.6 km) southeast of Orick, and 14 mi (23 km) upstream from mouth.

DRAINAGE AREA.--202 mi² (523 km²).

PERIOD OF RECORD.--Water years 1976-76, 1978-80, October 1981 to September 1982.

CHEMICAL ANALYSES: Water years 1973-76, 1978.

SEDIMENT RECORDS: Water years 1974-76, 1978-80, October 1981 to September 1982.

REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies," Data Release Numbers 1 and 2.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
FER								
16...	1440	7080	10.0	1580	30200	18	25	33
16...	1615	6820	10.5	1400	25800	--	--	--
DATE		SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
FER								
16...	42	51	58	66	77	89	96	100
16...	--	--	61	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

REDWOOD CREEK BASIN--Continued
11482261 REDWOOD CREEK NEAR ORICK, CA

LOCATION.--Lat 41°13'46", long 124°00'38", in NE¼ sec.25, T.10 N., R.1 E., Humboldt County, Hydrologic Unit 18010102, Redwood National Park, on right bank 80 ft (24 m) downstream from Miller Creek, 4.7 mi (7.6 km) southeast of Orick, and 10.1 mi (16.3 km) upstream from mouth.

DRAINAGE AREA.--218 mi² (565 km²).

PERIOD OF RECORD.--Water years 1978 to current year.

SEDIMENT RECORDS: Water years 1978 to current year.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
FEB								
16...	1240	8460	10.0	1780	40700	24	33	43
16...	1425	8080	10.0	1540	33600	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM
FEB							
16...	53	63	--	72	84	98	100
16...	--	--	64	--	--	--	--

GROUND-WATER LEVELS

ALAMEDA COUNTY

Livermore Valley Basin (2-10)

SITE NUMBER 374049121463301 LOCAL NUMBER 003S002E08P02M

IN LIVERMORE. DRILLED MUNICIPAL WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN, DEPTH 412 FT. ALTITUDE OF LSD 463 FT. MEASUREMENTS FURNISHED BY ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT ZONE 7. RECORDS AVAILABLE 1940 TO CURRENT YEAR.

HIGHEST WATER LEVEL 40.0 FEET BELOW LAND SURFACE DATUM APR 01, 1979.

LOWEST WATER LEVEL 191. FEET BELOW LAND SURFACE DATUM AUG 31, 1966.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 1981	84.	MAR 31, 1982	109.	APR 30, 1982	75.

Santa Clara Valley Basin (2-9.01)

SITE NUMBER 373841122062001 LOCAL NUMBER 003S002W29F04M

IN HAYWARD. DUG IRRIGATION WATER-TABLE WELL IN ALLUVIAL FAN DEPOSITS OF QUATERNARY AGE. DIAM 10 IN, DEPTH 120 FT. ALTITUDE OF LSD 40 FT. MEASUREMENTS FURNISHED BY ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1959 TO CURRENT YEAR.

HIGHEST WATER LEVEL 12.9 FEET BELOW LAND SURFACE DATUM APR 09, 1974.

LOWEST WATER LEVEL 23.2 FEET BELOW LAND SURFACE DATUM NOV 03, 1961.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21, 1981	16.9	APR 30, 1982	13.3

SITE NUMBER 373248121595001 LOCAL NUMBER 004S001W32C01M

IN FREMONT. DRILLED WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN, DEPTH 250 FT. PERFORATED 200-250 FT. ALTITUDE OF LSD 48 FT. MEASUREMENTS FURNISHED BY ALAMEDA COUNTY WATER DISTRICT. RECORDS AVAILABLE 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 46.7 FEET BELOW LAND SURFACE DATUM JAN 31, 1979.

LOWEST WATER LEVEL 113.5 FEET BELOW LAND SURFACE DATUM OCT 13, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 19, 1982	61.1	SEP 20, 1982	67.9

SITE NUMBER 373150122003201 LOCAL NUMBER 005S001W06H04M

IN NEWARK. DRILLED AQUIFER-RECLAMATION WATER-TABLE WELL IN ALLUVIAL FAN DEPOSITS. DIAM 18-16 IN, DEPTH 279 FT. LOUVERS 199-271 FT. ALTITUDE OF LSD 26.0 FT. MEASUREMENTS FURNISHED BY ALAMEDA COUNTY WATER DISTRICT. RECORDS AVAILABLE 1974 TO CURRENT YEAR.

HIGHEST WATER LEVEL 29.03 FEET BELOW LAND SURFACE DATUM DEC 02, 1980.

LOWEST WATER LEVEL 63.50 FEET BELOW LAND SURFACE DATUM SEP 29, 1976.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 28, 1982	44.0	SEP 24, 1982	53.0

CONTRA COSTA COUNTY

Pittsburg Plain Basin (2-4)

SITE NUMBER 380131121543101 LOCAL NUMBER 002N001E18C01M

1 MI SOUTHWEST OF PITTSBURG. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM UNKNOWN, DEPTH 205 FT. ALTITUDE OF LSD 21 FT. RECORDS AVAILABLE 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 17.14 FEET BELOW LAND SURFACE DATUM APR 28, 1982.

LOWEST WATER LEVEL 19.57 FEET BELOW LAND SURFACE DATUM OCT 28, 1971.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 28, 1982	17.14	SEP 23, 1982	17.84

SITE NUMBER 380129121543901 LOCAL NUMBER 002N001E18D01M

1 MI SOUTHWEST OF PITTSBURG. DRILLED INDUSTRIAL WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 8 IN. DEPTH 125 FT. ALTITUDE OF LSD 25 FT. RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 19.24 FEET BELOW LAND SURFACE DATUM APR 28, 1982.

LOWEST WATER LEVEL 28.4 FEET BELOW LAND SURFACE DATUM OCT 15, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1981	20.7	APR 28, 1982	19.24	SEP 23, 1982	19.95 R

Clayton Valley Basin (2-5)

SITE NUMBER 380049122015301 LOCAL NUMBER 002N002W13P01M

NEAR PORT CHICAGO. DRILLED INDUSTRIAL WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM UNKNOWN, DEPTH 139 FT. ALTITUDE OF LSD 45 FT. RECORDS AVAILABLE 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 19.61 FEET BELOW LAND SURFACE DATUM APR 21, 1978.

LOWEST WATER LEVEL 32.28 FEET BELOW LAND SURFACE DATUM APR 18, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 28, 1982	23.64	SEP 24, 1982	24.64

DEL NORTE COUNTY

Lower Klamath River Valley Basin (1-14)

SITE NUMBER 413043124020701 LOCAL NUMBER 013N001E15R01M

NEAR KLAMATH. DRILLED TEST WATER-TABLE WELL. DIAM UNKNOWN, DEPTH 200 FT. NO CASING INSTALLED. ALTITUDE OF LSD 50 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 9.0 FEET BELOW LAND SURFACE DATUM MAR 31, 1982.

LOWEST WATER LEVEL 18.4 FEET BELOW LAND SURFACE DATUM SEP 24, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1981	16.5 R	MAR 31, 1982	9.0

R Recently, pumped.

DEL NORTE COUNTY--Continued

Smith River Plain Basin (1-1)

SITE NUMBER 414643124115601 LOCAL NUMBER 016N001W17K01H

ABOUT 1.5 MI NORTH OF CRESCENT CITY. DRILLED DOMESTIC WATER-TABLE WELL IN THE BATTERY FORMATION OF PLEISTOCENE AGE. DIAM 6 IN, DEPTH 39 FT, PERFORATED 34-39 FT. ALTITUDE OF LSD 48 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1953-1954, 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 9.1 FEET BELOW LAND SURFACE DATUM APR 04, 1972.

LOWEST WATER LEVEL 24.5 FEET BELOW LAND SURFACE DATUM NOV 01, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15, 1981	22.6	APR 01, 1982	9.9

SITE NUMBER 415455124082901 LOCAL NUMBER 018N001W35B02H

NEAR SMITH RIVER. DRILLED IRRIGATION WATER-TABLE WELL, DIAM 12 IN, DEPTH 55 FT, PERFORATED 40-55 FT. ALTITUDE OF LSD 90 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1956 TO CURRENT YEAR.

HIGHEST WATER LEVEL 18.4 FEET BELOW LAND SURFACE DATUM NOV 28, 1956.

LOWEST WATER LEVEL 29.5 FEET BELOW LAND SURFACE DATUM APR 10, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15, 1981	25.2	APR 01, 1982	24.0

HUMBOLDT COUNTY

Mattole River Valley Basin (1-28)

SITE NUMBER 401843124170301 LOCAL NUMBER 002S002W03E01H

NEAR PETROLIA. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF THE COAST RANGE OF PLIOCENE-HOLOCENE AGE. DIAM 8 IN, DEPTH 50 FT. ALTITUDE OF LSD 100 FT. RECORDS AVAILABLE 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 13.80 FEET BELOW LAND SURFACE DATUM MAR 04, 1980.

LOWEST WATER LEVEL 16.2 FEET BELOW LAND SURFACE DATUM SEP 20, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1981	17.15 R	APR 22, 1982	13.96

SITE NUMBER 401928124171801 LOCAL NUMBER 002S002W09H01H

NEAR PETROLIA. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF THE COAST RANGE OF PLIOCENE-HOLOCENE AGE. DIAM 8 IN, DEPTH 34 FT. ALTITUDE OF LSD 76 FT. RECORDS AVAILABLE 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 5.04 FEET BELOW LAND SURFACE DATUM MAR 04, 1980.

LOWEST WATER LEVEL 13.51 FEET BELOW LAND SURFACE DATUM OCT 20, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1981	13.18 R	APR 22, 1982	5.85

R Recently, pumped.

HUMBOLDT COUNTY--Continued

Bel River Valley Basin (1-10)

SITE NUMBER 403633124135701 LOCAL NUMBER 003N001W30N01H

NEAR FORTUNA. DRILLED IRRIGATION WATER-TABLE WELL. DIAM 14 IN. DEPTH 48 FT. ALTITUDE OF LSD 19 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1973 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.2 FEET BELOW LAND SURFACE DATUM APR 16, 1974.

LOWEST WATER LEVEL 17.9 FEET BELOW LAND SURFACE DATUM SEP 21, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 1981	16.9	MAR 31, 1982	10.7

SITE NUMBER 403550124093101 LOCAL NUMBER 003N001W34J01H

IN SOUTHWEST CORNER OF CITY OF FORTUNA. DRILLED UNUSED ARTESIAN WELL IN THE CARLOTTA FORMATION OF PLIOCENE AGE. DIAM 12 IN. DEPTH 496 FT. PERFORATED 182-226, 285-365 FT. ALTITUDE OF LSD 53 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1951-1953, 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 28. FEET BELOW LAND SURFACE DATUM APR 11, 1967.

LOWEST WATER LEVEL 37.4 FEET BELOW LAND SURFACE DATUM NOV 08, 1952.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 1981	37.3	MAR 31, 1982	31.1

Eureka Plain Basin (1-9)

SITE NUMBER 404353124105001 LOCAL NUMBER 004N001W16H01H

NEAR FIELDS LANDING. DRILLED STOCK WATER-TABLE WELL IN HOOKTON FORMATION OF PLEISTOCENE AGE. DIAM UNKNOWN. DEPTH 210 FT. ALTITUDE OF LSD 10 FT. RECORDS AVAILABLE 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 17.0 FEET BELOW LAND SURFACE DATUM OCT 16, 1981.

LOWEST WATER LEVEL 38.9 FEET BELOW LAND SURFACE DATUM SEP 25, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
OCT 16, 1981	17.0

Mad River Valley Basin (1-8)

SITE NUMBER 405302124063201 LOCAL NUMBER 006N001E19Q01H

NEAR ARCATA. DRILLED DOMESTIC WATER-TABLE WELL IN FLOOD BASIN DEPOSITS OF HOLOCENE AGE. DIAM 8 IN. DEPTH 108 FT. ALTITUDE OF LSD 19 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 5.7 FEET BELOW LAND SURFACE DATUM APR 15, 1958.

LOWEST WATER LEVEL 18.5 FEET BELOW LAND SURFACE DATUM NOV 06, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15, 1981	14.8	MAR 31, 1982	7.1

GROUND-WATER LEVELS

HUMBOLDT COUNTY--Continued

Big Lagoon Area Basin (1-27)

SITE NUMBER 410927124074701 LOCAL NUMBER 009N001W24C01H

IN BIG LAGOON NEAR TRINIDAD. DRILLED UNUSED WATER-TABLE WELL IN HOOKTON FORMATION OF HOLOCENE AGE. DIAM 12 IN. DEPTH 130 FT. PERFORATED 0-130 FT. ALTITUDE OF LSD 105 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 16.8 FEET BELOW LAND SURFACE DATUM MAR 31, 1982.

LOWEST WATER LEVEL 28.2 FEET BELOW LAND SURFACE DATUM NOV 05, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1981	28.2	MAR 31, 1982	16.8

Prairie Creek Area Basin (1-25)

SITE NUMBER 412150124010301 LOCAL NUMBER 011N001E02R01H

NEAR ORICK. DRILLED PUBLIC SUPPLY WATER-TABLE WELL IN ALLUVIUM OF THE COAST RANGE OF PLIOCENE-HOLOCENE AGE. DIAM 12 IN. DEPTH 53 FT. ALTITUDE OF LSD 170 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 8.2 FEET BELOW LAND SURFACE DATUM MAR 31, 1982.

LOWEST WATER LEVEL 13.3 FEET BELOW LAND SURFACE DATUM SEP 24, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1981	13.0	MAR 31, 1982	8.2

MENDOCINO COUNTY

Sanel Valley Basin (2-16)

SITE NUMBER 385917123070401 LOCAL NUMBER 013N011W18E01H

1.2 MI NORTH OF HOPLAND. DRILLED IRRIGATION WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN. DEPTH 52 FT. ALTITUDE OF LSD 490 FT. RECORDS AVAILABLE 1953 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.7 FEET BELOW LAND SURFACE DATUM MAR 26, 1975.

LOWEST WATER LEVEL 13.6 FEET BELOW LAND SURFACE DATUM AUG 04, 1960.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1981	12.9	NOV 05, 1981	13.02 R	DEC 15, 1981	9.41	MAR 04, 1982	8.30
20	13.20	18	10.10	JAN 26, 1982	9.36	MAY 20	12.62 P
22	13.23						

SITE NUMBER 385800123064801 LOCAL NUMBER 013N011W19P01H

0.4 MI SOUTH OF HOPLAND. DUG AND DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF HOLOCENE AGE. DIAM 12 IN. DEPTH 44 FT. PERFORATED 24-44 FT. ALTITUDE OF LSD 488 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1953-1955, 1959 TO MARCH 1982 (DISCONTINUED).

HIGHEST WATER LEVEL 1.3 FEET BELOW LAND SURFACE DATUM FEB 09, 1960.

LOWEST WATER LEVEL 21.04 FEET BELOW LAND SURFACE DATUM OCT 02, 1958.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1981	20.0	MAR 16, 1982	9.5

P Pumping.

R Recently, pumped.

MENDOCINO COUNTY--Continued

Ukiah Valley Basin (2-15)

SITE NUMBER 391026123123201 LOCAL NUMBER 015N012W08L01M

1 MI NORTH OF UKIAH. DRILLED DOMESTIC WATER-TABLE WELL IN TERRACE DEPOSITS OF HOLOCENE AGE. DIAM 12 IN, DEPTH 62 FT. ALTITUDE OF LSD 640 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1951-1955, 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.1 FEET BELOW LAND SURFACE DATUM MAR 09, 1962.

LOWEST WATER LEVEL 30.6 FEET BELOW LAND SURFACE DATUM DEC 05, 1959.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1981	24.7	DEC 16, 1981	17.21	MAR 04, 1982	16.73	SEP 28, 1982	23.82
OCT 13	24.65						

Potter Valley Basin (2-14)

SITE NUMBER 391944123065701 LOCAL NUMBER 017N011W18J01M

ABOUT 2.5 MI SOUTHEAST OF POTTER VALLEY. DRILLED DOMESTIC ARTESIAN WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 8 IN, DEPTH 36 FT. ALTITUDE OF LSD 955 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1951-1955, 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.9 FEET ABOVE LAND SURFACE DATUM FEB 20, 1961.

LOWEST WATER LEVEL 5.2 FEET BELOW LAND SURFACE DATUM OCT 13, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1981	1.2	MAR 15, 1982	0.0

Little Lake Valley (1-13)

SITE NUMBER 392459123210301 LOCAL NUMBER 018N013W18E01M

IN WILLITS. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM OF HOLOCENE AGE AND CONTINENTAL DEPOSITS OF PLIOCENE AND PLEISTOCENE AGE. DIAM 12 IN, DEPTH 493 FT. ALTITUDE OF LSD 1350 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 17.8 FEET BELOW LAND SURFACE DATUM APR 18, 1974.

LOWEST WATER LEVEL 37.6 FEET BELOW LAND SURFACE DATUM OCT 24, 1960.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21, 1981	23.5	MAR 30, 1982	18.5	SEP 17, 1982	25.25	SEP 27, 1982	24.71
DEC 07	20.72	AUG 20	23.74				

SITE NUMBER 392404123191201 LOCAL NUMBER 018N013W20H04M

NEAR WILLITS. DUG DOMESTIC WATER-TABLE WELL. DIAM 36 IN, DEPTH 26 FT. ALTITUDE OF LSD 1385 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.17 FEET BELOW LAND SURFACE DATUM APR 12, 1982.

LOWEST WATER LEVEL 18.32 FEET BELOW LAND SURFACE DATUM SEP 15, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21, 1981	17.7	DEC 21, 1981	0.62	APR 12, 1982	0.17	JUN 14, 1982	6.60
DEC 08	5.05	MAR 30, 1982	1.6				

GROUND-WATER LEVELS

MENDOCINO COUNTY--Continued

Laytonville (1-12)

SITE NUMBER 393837123281801 LOCAL NUMBER 021N014W30M01M

ABOUT 2 MI SOUTH OF LAYTONVILLE. DUG DOMESTIC AND IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF HOLOCENE AGE. SIZE 5X5 FT, DEPTH 23 FT, PERFORATED 19-23 FT. ALTITUDE OF LSD 1688 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1952-1955, 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2.3 FEET BELOW LAND SURFACE DATUM MAR 30, 1982.

LOWEST WATER LEVEL 20. FEET BELOW LAND SURFACE DATUM AUG 25, 1959.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21, 1981	18.3	JAN 14, 1982	4.39	JUN 15, 1982	11.18	SEP 27, 1982	18.00
NOV 18	9.29	MAR 30	2.3				

Round Valley (1-11)

SITE NUMBER 394730123141701 LOCAL NUMBER 022N012W06L03M

NEAR COVELO. DRILLED OBSERVATION WATER-TABLE WELL IN CONTINENTAL DEPOSITS OF PLEISTOCENE-PLIOCENE AGE. DIAM 4 IN. DEPTH 660 FT, PERFORATED 137-660 FT. ALTITUDE OF LSD 1370 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1960 TO CURRENT YEAR.

HIGHEST WATER LEVEL 9.5 FEET ABOVE LAND SURFACE DATUM MAR 20, 1981.

LOWEST WATER LEVEL 24.2 FEET BELOW LAND SURFACE DATUM SEP 15, 1964.

WATER LEVELS IN FEET ABOVE OR BELOW(-) LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21, 1981	-7.2	MAR 30, 1982	8.5

SITE NUMBER 394642123151501 LOCAL NUMBER 022N013W12K01M

NEAR COVELO. DRILLED IRRIGATION WATER-TABLE WELL. DIAM 10 IN. DEPTH 180 FT, PERFORATED 22-37, 65-85, AND 105-180 FT. ALTITUDE OF LSD 1396 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1956 TO 1958, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2.4 FEET BELOW LAND SURFACE DATUM APR 02, 1980.

LOWEST WATER LEVEL 34.0 FEET BELOW LAND SURFACE DATUM OCT 09, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21, 1981	27.0	MAR 30, 1982	7.9

MONTEREY COUNTY

Salinas Valley Basin (3-4)

SITE NUMBER 364618121463701 LOCAL NUMBER 013S002E29M02M

NORTHWEST OF CASTROVILLE. DRILLED IRRIGATION WATER-TABLE WELL. DIAM 12 IN. DEPTH 566 FT, PERFORATED 410-566 FT. ALTITUDE OF LSD 9 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.1 FEET BELOW LAND SURFACE DATUM DEC 12, 1974.

LOWEST WATER LEVEL 27.3 FEET BELOW LAND SURFACE DATUM NOV 22, 1976.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 26, 1982	11.7	SEP 29, 1982	26.0

MONTEREY COUNTY--Continued

Salinas Valley Basin (3-4)

SITE NUMBER 364521121445301 LOCAL NUMBER 013S002E33R01M

NEAR CASTROVILLE. DRILLED IRRIGATION WATER-TABLE WELL. DIAM 12 IN. DEPTH UNKNOWN. ALTITUDE OF LSD 24.8 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1944 TO CURRENT YEAR.

HIGHEST WATER LEVEL 20.2 FEET BELOW LAND SURFACE DATUM MAR 04, 1952.

LOWEST WATER LEVEL 43.9 FEET BELOW LAND SURFACE DATUM SEP 01, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 15, 1982	26.4	AUG 22, 1982	40.1

SITE NUMBER 364248121404701 LOCAL NUMBER 014S003E18J01M

NORTH OF SALINAS. DRILLED IRRIGATION WATER-TABLE WELL IN PASO ROBLES FORMATION OF PLEISTOCENE AGE. DIAM 16 IN. DEPTH 513 FT. PERFORATED 245-261, 418-434, 483-510 FT. ALTITUDE OF LSD 70 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1931 TO CURRENT YEAR.

HIGHEST WATER LEVEL 39.4 FEET BELOW LAND SURFACE DATUM MAR 17, 1932.

LOWEST WATER LEVEL 111.9 FEET BELOW LAND SURFACE DATUM OCT 01, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 20, 1982	68.5	SEP 20, 1982	78.9

SITE NUMBER 363544121495201 LOCAL NUMBER 015S001E26N02M

NEAR SEASIDE. DRILLED DOMESTIC WATER-TABLE WELL IN QUATERNARY SYSTEM. DIAM 8 IN. DEPTH 100 FT. ALTITUDE OF LSD 120 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1960 TO CURRENT YEAR.

HIGHEST WATER LEVEL 48.0 FEET BELOW LAND SURFACE DATUM SEP 16, 1982.

LOWEST WATER LEVEL 67.0 FEET BELOW LAND SURFACE DATUM DEC 09, 1968.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 27, 1982	48.9	SEP 16, 1982	48.0

SITE NUMBER 363856121413701 LOCAL NUMBER 015S002E01Q01M

2 MI SOUTHWEST OF SALINAS. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN. DEPTH 196 FT. PERFORATED 79-196 FT. ALTITUDE OF LSD 42 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1931 TO CURRENT YEAR.

HIGHEST WATER LEVEL 13.5 FEET BELOW LAND SURFACE DATUM FEB 24, 1932.

LOWEST WATER LEVEL 64.9 FEET BELOW LAND SURFACE DATUM SEP 01, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 20, 1982	35.1	SEP 20, 1982	40.8

MONTEREY COUNTY--Continued

Carmel Valley Basin (3-7)

SITE NUMBER 363216121545401 LOCAL NUMBER 016S001W13L01M

NEAR CARMEL. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM UNKNOWN, DEPTH UNKNOWN. ALTITUDE OF LSD 13.7 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1961 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.0 FEET BELOW LAND SURFACE DATUM JUN 01, 1980.

LOWEST WATER LEVEL 8.0 FEET BELOW LAND SURFACE DATUM DEC 20, 1972.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 02, 1982	4.3

SITE NUMBER 363136121491001 LOCAL NUMBER 016S001E23K01M

IN CARMEL VALLEY. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 10 IN, DEPTH 92 FT, PERFORATIONS 50-54, 72-88 FT. ALTITUDE OF LSD 105 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1960 TO CURRENT YEAR.

HIGHEST WATER LEVEL 8.1 FEET BELOW LAND SURFACE DATUM MAR 07, 1961.

LOWEST WATER LEVEL 66.9 FEET BELOW LAND SURFACE DATUM DEC 01, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 02, 1982	16.7	SEP 16, 1982	27.0

Salinas Valley Basin (3-4)

SITE NUMBER 363208121261301 LOCAL NUMBER 016S005E17R01M

NORTH OF GONZALES. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 15 IN, DEPTH 299 FT. ALTITUDE OF LSD 181 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1916 TO CURRENT YEAR.

HIGHEST WATER LEVEL 88.9 FEET BELOW LAND SURFACE DATUM JAN 02, 1916.

LOWEST WATER LEVEL 146.0 FEET BELOW LAND SURFACE DATUM AUG 26, 1932.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 21, 1982	117.8	SEP 29, 1982	120.4

SITE NUMBER 362150121182401 LOCAL NUMBER 018S006E15F01M

NEAR SOLEDAD. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN, DEPTH UNKNOWN. ALTITUDE OF LSD 215 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1916 TO CURRENT YEAR.

HIGHEST WATER LEVEL 14.5 FEET BELOW LAND SURFACE DATUM MAY 06, 1941.

LOWEST WATER LEVEL 100.2 FEET BELOW LAND SURFACE DATUM MAR 01, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 16, 1982	29.8

MONTEREY COUNTY--Continued

Salinas Valley Basin (3-4)

SITE NUMBER 362140121184501 LOCAL NUMBER 018S006E15H01M

SOUTH OF SOLEDAD, DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 14 IN, DEPTH 288 FT, PERFORATIONS 104-239, 255-288 FT. ALTITUDE OF LSD 277 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1931 TO CURRENT YEAR.

HIGHEST WATER LEVEL 76.0 FEET BELOW LAND SURFACE DATUM MAY 06, 1941.

LOWEST WATER LEVEL 122.1 FEET BELOW LAND SURFACE DATUM NOV 25, 1948.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 19, 1982	82.1	AUG 20, 1982	105.1

SITE NUMBER 361714121114601 LOCAL NUMBER 019S007E10P01M

3.5 MI SOUTHEAST OF GREENFIELD, DRILLED IRRIGATION WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 16 IN, DEPTH 245 FT. ALTITUDE OF LSD 315 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1931 TO CURRENT YEAR.

HIGHEST WATER LEVEL 73.0 FEET BELOW LAND SURFACE DATUM MAY 13, 1937.

LOWEST WATER LEVEL 113.3 FEET BELOW LAND SURFACE DATUM MAR 02, 1948.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 16, 1982	80.0	SEP 16, 1982	101.5

SITE NUMBER 360036120535301 LOCAL NUMBER 022S010E16P01M

1 MI SOUTH OF SAN ARDO, DRILLED IRRIGATION WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 16 IN, DEPTH 178 FT, PERFORATED 40-178 FT. ALTITUDE OF LSD 425 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1931 TO CURRENT YEAR.

HIGHEST WATER LEVEL 21.7 FEET BELOW LAND SURFACE DATUM FEB 25, 1952.

LOWEST WATER LEVEL 31.0 FEET BELOW LAND SURFACE DATUM NOV 19, 1970.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 16, 1982	22.2	SEP 15, 1982	25.5

Lockwood Valley Basin (3-6)

SITE NUMBER 355732121041501 LOCAL NUMBER 023S008E02N01M

0.75 MI NORTH OF LOCKWOOD, DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN, DEPTH 272 FT, PERFORATED 70-272 FT. ALTITUDE OF LSD 1040 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1962 TO CURRENT YEAR.

HIGHEST WATER LEVEL 89.3 FEET BELOW LAND SURFACE DATUM MAR 09, 1962.

LOWEST WATER LEVEL 136.6 FEET BELOW LAND SURFACE DATUM JUL 15, 1974.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 18, 1982	108.9	SEP 16, 1982	101.5

GROUND-WATER LEVELS

MONTEREY COUNTY--Continued

Caloma Valley Basin (3-5)

SITE NUMBER 355405120263301 LOCAL NUMBER 023S014E27H01M

0.6 MI WEST OF PARKFIELD, DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 10 IN, DEPTH UNKNOWN. ALTITUDE OF LSD 1533 FT. RECORDS AVAILABLE 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 16.18 FEET BELOW LAND SURFACE DATUM APR 19, 1983.

LOWEST WATER LEVEL 41.9 FEET BELOW LAND SURFACE DATUM SEP 21, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
SEP 21, 1982	41.9

NAPA COUNTY

Napa Valley Basin (2-2.01)

SITE NUMBER 382218122190101 LOCAL NUMBER 006N004W17A01M

ABOUT 4 MI NORTH OF NAPA. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN, DEPTH 250 FT. ALTITUDE OF LSD 67 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1949 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.6 FEET BELOW LAND SURFACE DATUM FEB 21, 1969.

LOWEST WATER LEVEL 49.9 FEET BELOW LAND SURFACE DATUM MAR 11, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1981	26.8 P	MAR 10, 1982	2.6

SITE NUMBER 382743122233501 LOCAL NUMBER 007N005W15A01M

NEAR RUTHERFORD. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 10 IN, DEPTH 355 FT. ALTITUDE OF LSD 143 FT. RECORDS FURNISHED BY NAPA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1934, 1963 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1.8 FEET BELOW LAND SURFACE DATUM FEB 01, 1978.

LOWEST WATER LEVEL 32.0 FEET BELOW LAND SURFACE DATUM APR 22, 1975.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 16, 1981	31.9	OCT 21, 1981	18.3	MAR 25, 1982	12.

SITE NUMBER 383326122311801 LOCAL NUMBER 008N006W10Q01M

ABOUT 3.5 MI SOUTHEAST OF CALISTOGA. DRILLED STOCK AND IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 10 IN, DEPTH 184 FT. ALTITUDE OF LSD 290 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1949 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.1 FEET BELOW LAND SURFACE DATUM MAR 20, 1967.

LOWEST WATER LEVEL 40.75 FEET BELOW LAND SURFACE DATUM SEP 14, 1950.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1981	14.4	OCT 21, 1981	8.7	MAR 10, 1982	5.4

P Pumping.

SAN BENITO COUNTY

Gilroy-Hollister Valley Basin (3-3)

SITE NUMBER 365519121263501 LOCAL NUMBER 012S005E05G01M

NEAR HOLLISTER, DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE AND PURISIMA FORMATION OF PLIOCENE AGE, DIAM 14 IN, DEPTH 500 FT, PERFORATED 150-500 FT. ALTITUDE OF LSD 175 FT. MEASUREMENTS FURNISHED BY COUNTY OF SAN BENITO. RECORDS AVAILABLE 1960 TO CURRENT YEAR.

HIGHEST WATER LEVEL 82.3 FEET BELOW LAND SURFACE DATUM APR 01, 1960.

LOWEST WATER LEVEL 113.5 FEET BELOW LAND SURFACE DATUM OCT 01, 1975.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
MAR 1982	89.5

SITE NUMBER 365407121251901 LOCAL NUMBER 012S005E09K01M

NORTH OF HOLLISTER, DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 14 IN, DEPTH 195 FT, PERFORATED 88-90, 94-110, 134-145, 160-167, 173-180, 184-195 FT. ALTITUDE OF LSD 213 FT. MEASUREMENTS FURNISHED BY COUNTY OF SAN BENITO. RECORDS AVAILABLE 1949 TO CURRENT YEAR.

HIGHEST WATER LEVEL 69.5 FEET BELOW LAND SURFACE DATUM FEB 07, 1968.

LOWEST WATER LEVEL 141. FEET BELOW LAND SURFACE DATUM OCT 01, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1981	134.5	MAR 1982	129.0

SAN LUIS OBISPO COUNTY

Salinas Valley Basin (3-4)

SITE NUMBER 353335120412301 LOCAL NUMBER 027S012E21N05M

1 MI NORTHEAST OF TEMPLETON, DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM UNKNOWN, DEPTH UNKNOWN. ALTITUDE OF LSD 737 FT. MEASUREMENTS FURNISHED BY SAN LUIS OBISPO COUNTY. RECORDS AVAILABLE 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 6.5 FEET BELOW LAND SURFACE DATUM APR 12, 1973.

LOWEST WATER LEVEL 72.6 FEET BELOW LAND SURFACE DATUM OCT 03, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
OCT 26, 1981	14.75

Los Osos Valley (3-8)

SITE NUMBER 351858120483201 LOCAL NUMBER 030S011E17H02M

1.3 MI NORTHEAST OF LOS OSOS, DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN, DEPTH 210 FT. ALTITUDE OF LSD 38.56 FT. MEASUREMENTS FURNISHED BY SAN LUIS OBISPO COUNTY. RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 8.4 FEET BELOW LAND SURFACE DATUM APR 07, 1974.

LOWEST WATER LEVEL 22.8 FEET BELOW LAND SURFACE DATUM OCT 01, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21, 1981	19.3	MAY 07, 1982	18.4

GROUND-WATER LEVELS

SAN LUIS OBISPO COUNTY--Continued

San Luis Obispo Valley Basin (3-9)

SITE NUMBER 351258120364501 LOCAL NUMBER 031S013E19H01M

6 MI SOUTHEAST OF SAN LUIS OBISPO. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN. DEPTH UNKNOWN. ALTITUDE OF LSD 262 FT. MEASUREMENTS FURNISHED BY SAN LUIS OBISPO COUNTY. RECORDS AVAILABLE 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 5.3 FEET BELOW LAND SURFACE DATUM MAR 25, 1969.

LOWEST WATER LEVEL 43.1 FEET BELOW LAND SURFACE DATUM OCT 27, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
OCT 23, 1981	23.2

Arroyo Grande Valley-Nipomo Mesa Area (3-11)

SITE NUMBER 350625120362501 LOCAL NUMBER 032S013E29N01M

0.5 MI NORTH OF OCEANO. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN. DEPTH 125 FT. ALTITUDE OF LSD 79 FT. MEASUREMENTS FURNISHED BY SAN LUIS OBISPO COUNTY. RECORDS AVAILABLE 1959 TO CURRENT YEAR.

HIGHEST WATER LEVEL 64.84 FEET BELOW LAND SURFACE DATUM FEB 26, 1980.

LOWEST WATER LEVEL 103.0 FEET BELOW LAND SURFACE DATUM NOV 10, 1965.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15, 1981	72.6	APR 26, 1982	69.4

SAN MATEO COUNTY

Half Moon Bay Terrace Basin (2-22)

SITE NUMBER 372706122254301 LOCAL NUMBER 005S005W32K01M

0.5 MI SOUTH OF HALF MOON BAY. DRILLED UNUSED WATER-TABLE WELL IN TERRACE DEPOSITS OF PLEISTOCENE AGE. DIAM 12 IN. DEPTH 96 FT. PERFORATED 47-92 FT. ALTITUDE OF LSD 92 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1953 TO CURRENT YEAR.

HIGHEST WATER LEVEL 22.3 FEET BELOW LAND SURFACE DATUM FEB 20, 1962.

LOWEST WATER LEVEL 47.7 FEET BELOW LAND SURFACE DATUM APR 26, 1961.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1981	32.3	MAR 11, 1982	23.8

SITE NUMBER 373045122292801 LOCAL NUMBER 005S006W11E03M

5 MI NORTHWEST OF HALF MOON BAY. DRILLED UNUSED WATER-TABLE WELL IN TERRACE DEPOSITS OF PLEISTOCENE AGE. DIAM 12 IN. DEPTH 87 FT. PERFORATED 12-88 FT. ALTITUDE OF LSD 49 FT. RECORDS AVAILABLE 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 15.12 FEET BELOW LAND SURFACE DATUM APR 12, 1983.

LOWEST WATER LEVEL 29.54 FEET BELOW LAND SURFACE DATUM SEP 15, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 15, 1982	20.14	SEP 14, 1982	22.94 S

S Nearby, pumping.

SAN MATEO COUNTY--Continued

San Gregorio Valley Basin (2-24)

SITE NUMBER 371931122231001 LOCAL NUMBER 007S005W15E02M

NEAR SAN GREGORIO. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 8 IN, DEPTH UNKNOWN. ALTITUDE OF LSD 30 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1953 TO CURRENT YEAR.

HIGHEST WATER LEVEL 5.9 FEET BELOW LAND SURFACE DATUM FEB 26, 1958.

LOWEST WATER LEVEL 21.7 FEET BELOW LAND SURFACE DATUM OCT 25, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1981	15.1	MAR 11, 1982	14.3

Pescadero Valley Basin (2-26)

SITE NUMBER 371506122223701 LOCAL NUMBER 008S005W10K01M

NEAR PESCADERO. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN, DEPTH 25 FT. ALTITUDE OF LSD 37 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1953 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.3 FEET BELOW LAND SURFACE DATUM FEB 27, 1958.

LOWEST WATER LEVEL 20.8 FEET BELOW LAND SURFACE DATUM JAN 23, 1963.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
OCT 14, 1981	18.6

SANTA CLARA COUNTY

Santa Clara Valley Basin (2-9.02)

SITE NUMBER 372349121564701 LOCAL NUMBER 006S001W23E01M

IN SANTA CLARA. DRILLED OBSERVATION WATER-TABLE WELL IN SANTA CLARA FORMATION OF PLEISTOCENE AGE. DIAM 14 IN, DEPTH 425 FT, PERFORATED 170-425 FT. ALTITUDE OF LSD 21.0 FT. RECORDER INSTALLED 1958-1981. RECORDS AVAILABLE 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1.20 FEET BELOW LAND SURFACE DATUM APR 11, 1975.

LOWEST WATER LEVEL 174.6 FEET BELOW LAND SURFACE DATUM JUL 18, 1962.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
AUG 27, 1982	35.17

SITE NUMBER 372640122084901 LOCAL NUMBER 006S003W01D10M

IN PALO ALTO. DRILLED MUNICIPAL WATER-TABLE WELL IN SANTA CLARA FORMATION OF PLEISTOCENE AGE. DIAM 14 IN, DEPTH 600 FT, PERFORATED 165-172, 226-242, 252-272, 362-376, 425-433, 442-456, 570-592 FT. ALTITUDE OF LSD 31.4 FT. MEASUREMENTS FURNISHED BY SANTA CLARA VALLEY WATER DISTRICT. RECORDS AVAILABLE 1963 TO CURRENT YEAR.

HIGHEST WATER LEVEL 8.9 FEET BELOW LAND SURFACE DATUM APR 30, 1982.

LOWEST WATER LEVEL 103.0 FEET BELOW LAND SURFACE DATUM OCT 01, 1963.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1981	20.0	JAN 05, 1982	18.0	APR 01, 1982	18.7	JUL 01, 1982	13.1
30	24.0	FEB 02	16.1	30	8.9	AUG 05	15.1
DEC 01	19.0	MAR 01	19.0	JUN 01	13.1		

GROUND-WATER LEVELS

SANTA CLARA COUNTY--Continued
 Santa Clara Valley Basin (2-9.02)

SITE NUMBER 372130122042301 LOCAL NUMBER 0075002W03002M

NEAR LOS ALTOS. DRILLED MUNICIPAL AND INDUSTRIAL WATER-TABLE WELL IN SANTA CLARA FORMATION OF PLEISTOCENE AGE. DIAM UNKNOWN, DEPTH 640 FT. ALTITUDE OF LSD 189 FT. MEASUREMENTS FURNISHED BY SANTA CLARA VALLEY WATER DISTRICT. RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 131.0 FEET BELOW LAND SURFACE DATUM MAR 01, 1974.

LOWEST WATER LEVEL 303.0 FEET BELOW LAND SURFACE DATUM JUL 01, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
DEC 31, 1981	208.3

SITE NUMBER 371044121414701 LOCAL NUMBER 009S002E01J01M

4 MI NORTHWEST OF MORGAN HILL. DRILLED IRRIGATION WATER-TABLE WELL IN SANTA CLARA FORMATION OF PLEISTOCENE AGE. DIAM 12 IN, DEPTH 135 FT. ALTITUDE OF LSD 322 FT. MEASUREMENTS FURNISHED BY SANTA CLARA VALLEY WATER DISTRICT. RECORDS AVAILABLE 1936 TO CURRENT YEAR.

HIGHEST WATER LEVEL 12.6 FEET BELOW LAND SURFACE DATUM APR 16, 1941.

LOWEST WATER LEVEL 102.7 FEET BELOW LAND SURFACE DATUM NOV 18, 1948.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 01, 1981	29.9	APR 05, 1982	13.8	JUN 08, 1982	17.1	SEP 16, 1982	17.7

Gilroy-Hollister Valley Basin (3-3)

SITE NUMBER 370048121344701 LOCAL NUMBER 011S004E06D01M

IN GILROY. DRILLED MUNICIPAL WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 14 IN, DEPTH 470 FT. PERFORATED 108-324, 376-460 FT. ALTITUDE OF LSD 211 FT. MEASUREMENTS FURNISHED BY THE CITY OF GILROY. RECORDS AVAILABLE 1947 TO CURRENT YEAR.

HIGHEST WATER LEVEL 32. FEET BELOW LAND SURFACE DATUM APR 01, 1982.

LOWEST WATER LEVEL 126. FEET BELOW LAND SURFACE DATUM AUG 12, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1981	75.	FEB 1982	44.	MAY 1982	37.	AUG 1982	58.
DEC	64.	MAR	40.	JUN	43.	SEP	58.
JAN 1982	51.	APR	32.	JUL	49.		

SANTA CRUZ COUNTY

Soquel Valley Basin (3-1)

SITE NUMBER 365934121572601 LOCAL NUMBER 011S001W10C01M

0.5 MI NORTH OF SOQUEL. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF HOLOCENE AGE. DIAM UNKNOWN, DEPTH UNKNOWN. ALTITUDE OF LSD 90 FT. RECORDS AVAILABLE 1948 TO CURRENT YEAR.

HIGHEST WATER LEVEL 57.0 FEET BELOW LAND SURFACE DATUM OCT 15, 1958.

LOWEST WATER LEVEL 85.6 FEET BELOW LAND SURFACE DATUM JUL 27, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 09, 1981	63.61	DEC 07, 1981	62.56	MAR 09, 1982	62.09	MAY 11, 1982	62.44
NOV 09	63.33	FEB 09, 1982	62.40	APR 13	61.80	JUN 09	65.31

SANTA CRUZ COUNTY--Continued

Pajaro Valley Basin (3-2)

SITE NUMBER 365700121402701 LOCAL NUMBER 011S002E29F03M

1 MI NORTH OF FREEDOM. DRILLED IRRIGATION WATER-TABLE WELL IN AROMAS RED SAND OF PLEISTOCENE AGE. DIAM 14 IN, DEPTH 452 FT, PERFORATED 269-317, 422-442 FT. ALTITUDE OF LSD 130 FT. RECORDS AVAILABLE 1942.

HIGHEST WATER LEVEL 117.87 FEET BELOW LAND SURFACE DATUM MAR 15, 1983.

LOWEST WATER LEVEL 129.53 FEET BELOW LAND SURFACE DATUM SEP 15, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
SEP 15, 1982	129.53

SITE NUMBER 365255121475801 LOCAL NUMBER 012S001E13R01M

3 MI SOUTHWEST OF WATSONVILLE. DRILLED IRRIGATION WATER-TABLE WELL IN AROMAS SAND OF PLEISTOCENE AGE. DIAM 12 IN, DEPTH 370 FT. ALTITUDE OF LSD 10 FT. RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2. FEET BELOW LAND SURFACE DATUM JUN 01, 1972.

LOWEST WATER LEVEL 28.0 FEET BELOW LAND SURFACE DATUM JUL 16, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 09, 1982	18.35 R	AUG 04, 1982	26.71

SITE NUMBER 365425121452201 LOCAL NUMBER 012S002E09C02M

IN WATSONVILLE. DRILLED MUNICIPAL WATER-TABLE WELL IN PURISIMA FORMATION OF PLEISTOCENE AGE. DIAM 12 IN, DEPTH 177 FT, PERFORATED 98-147 FT. ALTITUDE OF LSD 23 FT. MEASUREMENTS FURNISHED BY CITY OF WATSONVILLE, RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 17.0 FEET BELOW LAND SURFACE DATUM FEB 17, 1969.

LOWEST WATER LEVEL 62.0 FEET BELOW LAND SURFACE DATUM AUG 11, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1981	48.	JAN 1982	35.	APR 1982	54.	JUL 1982	44.
NOV	43.	FEB	34.	MAY	41.	AUG	48.
DEC	38.	MAR	37.	JUN	43.	SEP	45.

SITE NUMBER 365446121412001 LOCAL NUMBER 012S003E06N02M

4 MI EAST OF WATSONVILLE. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF PLEISTOCENE AGE. DIAM 10 IN, DEPTH 123 FT. ALTITUDE OF LSD 47 FT. RECORDS AVAILABLE 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 34.05 FEET BELOW LAND SURFACE DATUM FEB 09, 1983.

LOWEST WATER LEVEL 64.2 FEET BELOW LAND SURFACE DATUM AUG 18, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12, 1981	53.28	FEB 08, 1982	42.47	MAY 10, 1982	38.36	AUG 09, 1982	49.42 R
NOV 06	54.85	MAR 08	39.54	JUN 08	41.07 R	SEP 07	48.38
DEC 07	52.52	APR 12	36.35	JUL 06	42.89		

R Recently, pumped.

GROUND-WATER LEVELS

SOLANO COUNTY

Suisun-Fairfield Valley Basin (2-3)

SITE NUMBER 381218121524101 LOCAL NUMBER 004N001E09M01M

NEAR DENVERTON. DRILLED STOCK WATER-TABLE WELL IN TEHAMA FORMATION OF PLIOCENE AGE. DIAM 6 IN, DEPTH 285 FT. PERFORATED 174-176, 242-252, 269-285 FT. ALTITUDE OF LSD 95 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1975 TO CURRENT YEAR.

HIGHEST WATER LEVEL 60.4 FEET BELOW LAND SURFACE DATUM JUL 17, 1975.

LOWEST WATER LEVEL 62.7 FEET BELOW LAND SURFACE DATUM OCT 02, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1981	61.6	MAR 05, 1982	61.0

SITE NUMBER 381543122052601 LOCAL NUMBER 005N002W21P03M

NEAR FAIRFIELD. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 10 IN, DEPTH 204 FT. ALTITUDE OF LSD 60 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1959 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2.0 FEET BELOW LAND SURFACE DATUM FEB 26, 1980.

LOWEST WATER LEVEL 47.5 FEET BELOW LAND SURFACE DATUM OCT 03, 1960.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28, 1981	10.8	JAN 28, 1982	3.9	MAR 22, 1982	4.3	JUL 28, 1982	7.3
NOV 23	10.9	FEB 23	3.9	APR 28	4.7	AUG 24	8.9
DEC 28	8.7	MAR 10	5.1	MAY 25	6.6	SEP 28	9.4

SONOMA COUNTY

Sonoma Valley Basin (2-2.02)

SITE NUMBER 381700122261401 LOCAL NUMBER 005N005W17C01M

ABOUT 0.5 MI NORTH OF VINEBURG. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 6 IN, DEPTH 64 FT. ALTITUDE OF LSD 85 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1950 TO CURRENT YEAR.

HIGHEST WATER LEVEL 5.2 FEET BELOW LAND SURFACE DATUM MAR 14, 1958.

LOWEST WATER LEVEL 28.78 FEET BELOW LAND SURFACE DATUM JUN 06, 1950.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 09, 1981	13.1	MAR 10, 1982	7.8

SITE NUMBER 381452122264801 LOCAL NUMBER 005N005W29N01M

2.8 MI SOUTH OF SONOMA. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 10 IN, DEPTH 100 FT. ALTITUDE OF LSD 16 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1951 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1. FEET BELOW LAND SURFACE DATUM APR 24, 1967.

LOWEST WATER LEVEL 19.6 FEET BELOW LAND SURFACE DATUM JAN 02, 1963.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 09, 1981	14.7	MAR 10, 1982	4.8

SONOMA COUNTY--Continued

Petaluma Valley Basin (2-1)

SITE NUMBER 381603122391101 LOCAL NUMBER 005N007W20B02M

2 MI SOUTH OF PENNGROVE. DRILLED STOCK WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 8 IN. DEPTH 158 FT. ALTITUDE OF LSD 41 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1953 TO CURRENT YEAR.

HIGHEST WATER LEVEL 7.6 FEET BELOW LAND SURFACE DATUM APR 01, 1955.

LOWEST WATER LEVEL 99.6 FEET BELOW LAND SURFACE DATUM JAN 11, 1962.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 10, 1981	44.2	MAR 12, 1982	35.5

Santa Rosa Valley Basin (2-18)

SITE NUMBER 382229122473101 LOCAL NUMBER 006N008W07P02M

5.5 MI NORTHWEST OF COTATI. DRILLED DOMESTIC AND IRRIGATION WATER-TABLE WELL IN THE MERCED FORMATION OF PLEISTOCENE AGE. DIAM 8 IN. DEPTH 120 FT. ALTITUDE OF LSD 95 FT. RECORDS AVAILABLE 1945 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.55 FEET BELOW LAND SURFACE DATUM APR 04, 1952.

LOWEST WATER LEVEL 63.2 FEET BELOW LAND SURFACE DATUM SEP 29, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 1981	32.5	JAN 27, 1982	19.8	APR 29, 1982	21.3	JUL 29, 1982	28.9
NOV 30	22.4	FEB 23	22.4	MAY 25	24.4	AUG 25	31.6
DEC 30	24.7	MAR 18	19.0	JUN 29	30.0		

SITE NUMBER 383535122521301 LOCAL NUMBER 009N009W28N01M

1 MI SOUTH OF HEALDSBURG. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 10 IN. DEPTH 53 FT. ALTITUDE OF LSD 90 FT. RECORDS AVAILABLE 1953-1954, 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 7.6 FEET BELOW LAND SURFACE DATUM FEB 09, 1960.

LOWEST WATER LEVEL 29.94 FEET BELOW LAND SURFACE DATUM SEP 29, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 27, 1982	20.26	SEP 21, 1982	27.40

Alexander Valley Basin (2-17)

SITE NUMBER 384320122534201 LOCAL NUMBER 010N009W18B01M

1 MI NORTHEAST OF GEYSERVILLE. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, TERRACE DEPOSITS OF HOLOCENE AGE, AND CRETACEOUS-JURASSIC SYSTEMS. DIAM 10 IN. DEPTH 180 FT. ALTITUDE OF LSD 230 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1950 TO CURRENT YEAR.

HIGHEST WATER LEVEL 9.0 FEET BELOW LAND SURFACE DATUM MAR 26, 1975.

LOWEST WATER LEVEL 27.5 FEET BELOW LAND SURFACE DATUM AUG 23, 1966.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07, 1981	21.8	OCT 08, 1981	21.4	MAR 16, 1982	14.4

GROUND-WATER LEVELS

SONOMA COUNTY--Continued

Alexander Valley Basin (2-17)

SITE NUMBER 384717123004801 LOCAL NUMBER 011N010W19F02M

ABOUT 1 MI SOUTH OF CLOVERDALE. DRILLED UNUSED ARTESIAN WELL IN FRANCISCAN COMPLEX OF LATE JURASSIC TO LATE CRETACEOUS AGE, AND KNOXVILLE FORMATION OF LATE JURASSIC AGE. DIAM 8 IN, DEPTH 160 FT, PERFORATED 116-135 FT. ALTITUDE OF LSD 346 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1952 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.55 FEET BELOW LAND SURFACE DATUM APR 17, 1963.

LOWEST WATER LEVEL 17.32 FEET BELOW LAND SURFACE DATUM SEP 15, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07, 1981	10.7	MAR 16, 1982	4.4

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FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
<i>Length</i>		
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)
<i>Area</i>		
acres	4.047×10^3	square meters (m ²)
	4.047×10^{-1}	square hectometers (hm ²)
	4.047×10^{-3}	square kilometers (km ²)
square miles (mi ²)	2.590×10^0	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785×10^0	liters (L)
	3.785×10^0	cubic decimeters (dm ³)
	3.785×10^{-3}	cubic meters (m ³)
million gallons	3.785×10^3	cubic meters (m ³)
	3.785×10^{-3}	cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1	cubic decimeters (dm ³)
	2.832×10^{-2}	cubic meters (m ³)
cfs-days	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3	cubic meters (m ³)
	1.233×10^{-3}	cubic hectometers (hm ³)
	1.233×10^{-6}	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1	liters per second (L/s)
	2.832×10^1	cubic decimeters per second (dm ³ /s)
	2.832×10^{-2}	cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm ³ /s)
	6.309×10^{-5}	cubic meters per second (m ³ /s)
million gallons per day	4.381×10^1	cubic decimeters per second (dm ³ /s)
	4.381×10^{-2}	cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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