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U. S. Geological Survey
Water Resources Division
Sacramento, California

Water Resources Data for California Water Year 1976

Volume 1. Colorado River Basin, Southern Great Basin from Mexican Border to Mono Lake Basin, and Pacific Slope Basins from Tijuana River to Santa Maria River



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CA-76-1

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

CALENDAR FOR WATER YEAR 1976

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and Pacific Slope Basins from Tijuana River
to Santa Maria River



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

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

V. E. McKelvey, Director

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

1977

PREFACE

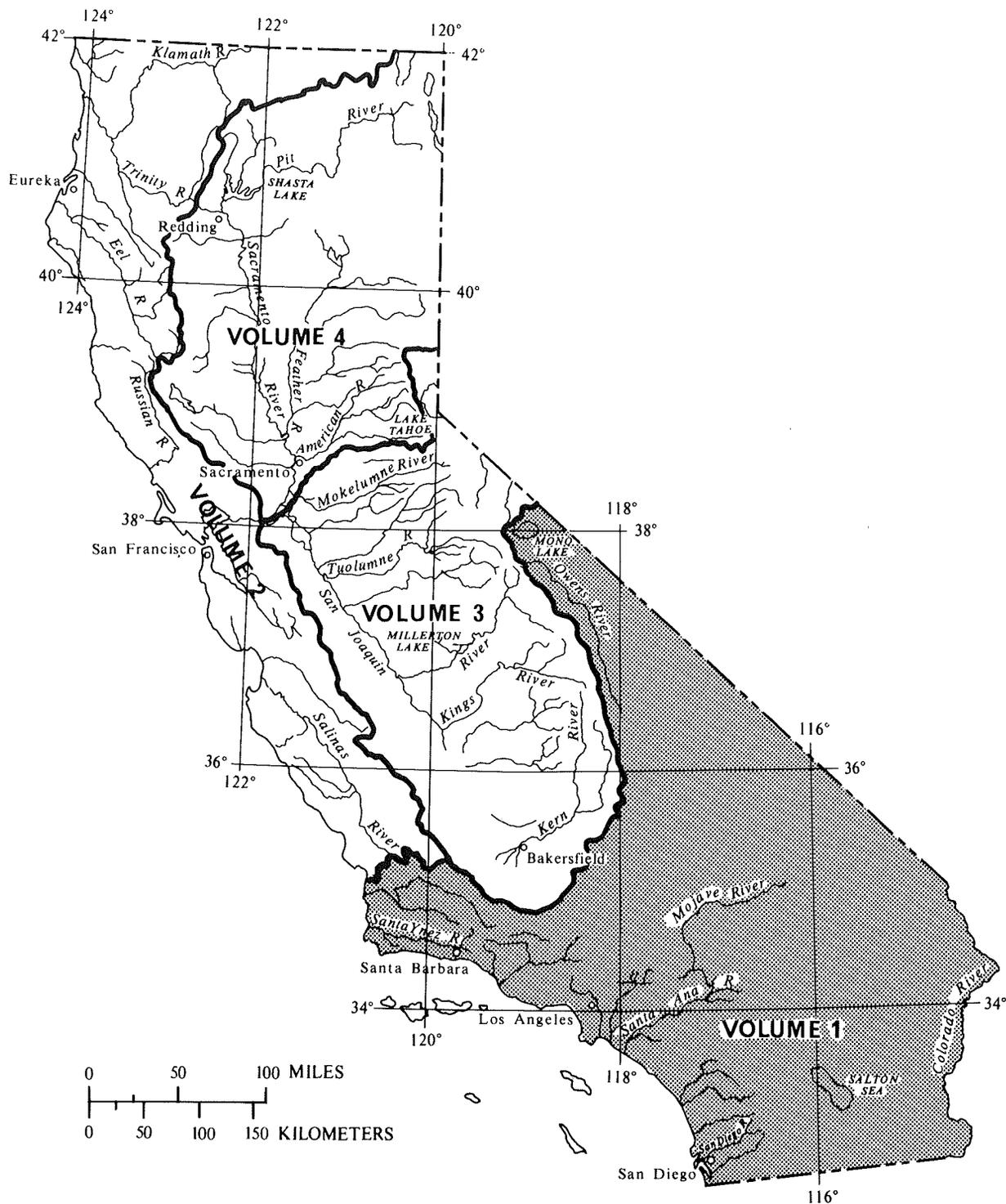
This report was prepared by the U.S. Geological Survey, in cooperation with the California Department of Water Resources and with other agencies, by personnel of the California District of the Water Resources Division under the supervision of Lee R. Peterson, District Chief, and W. H. Robinson, Regional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

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

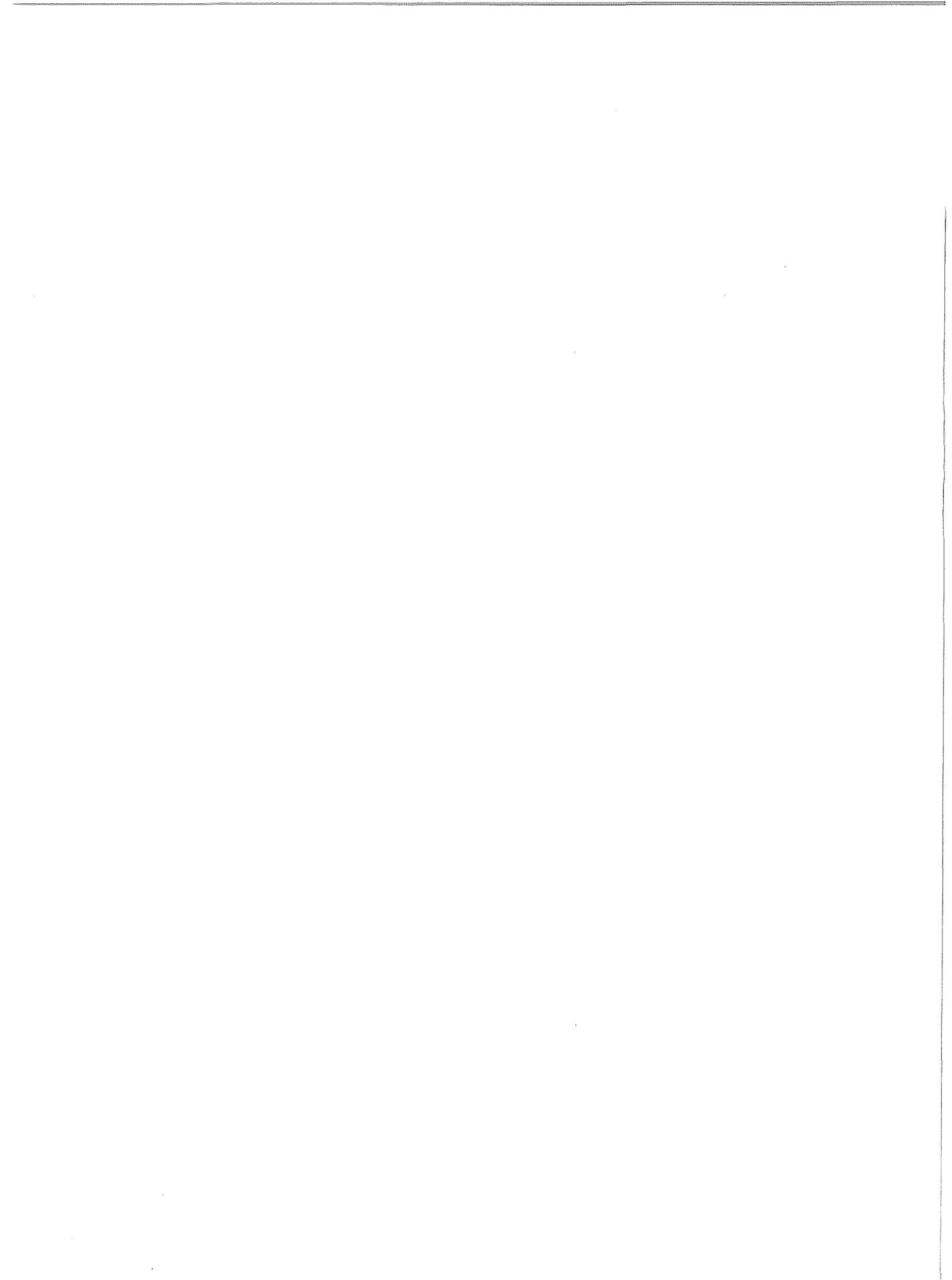
Data for California are in four volumes as follows:

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

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

IX

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

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WATER RESOURCES DATA FOR CALIFORNIA, 1976

Volume 1

INTRODUCTION

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

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

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released, either in separate reports or in conjunction with streamflow records. Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published as an official Survey report on a State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report CA-76-1." Water-data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

COOPERATION

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

Antelope Valley-East Kern Water Agency, Wallace G. Spinarski, general manager.
California Department of Water Resources, R. B. Robie, director.
Casitas Municipal Water District, Robert McKinney, general manager-chief engineer.
Coachella Valley County Water District, L. O. Weeks, general manager-chief engineer.
Desert Water Agency, P. G. Payne, general manager.
Imperial Irrigation District, R. F. Carter, general manager.
Los Angeles County Flood Control District, A. E. Bruington, chief engineer.
Los Angeles Department of Water and Power, Louis H. Winnard, general manager and chief engineer.
Montecito County Water District, H. O. Neil Mendenall, general manager.
Orange County Environmental Management Agency, H. G. Osborne, director.
Orange County Water District, Neil M. Cline, secretary-manager.
Riverside County Flood Control and Water Conservation District, J. W. Bryant, chief engineer.
San Bernardino Valley Municipal Water District, J. A. Beaver, general manager.
San Diego, City of, Water Utilities, R. W. King, director.
San Diego, County of, Department of Sanitation and Flood Control, C. J. Houson, director.
Santa Barbara, City of, Department of Public Works, R. W. Puddicombe, director.
Santa Barbara County Flood Control and Water Conservation District, James Stubchaer, flood-control engineer.
Santa Barbara County Water Agency, Harrell Fletcher, board of directors chairman.
Santa Maria Valley Water Conservation District, M. F. Twitchell, secretary.
Santa Ynez River Water Conservation District, William Laranjo, president.
United Water Conservation District, R. A. Smith, general manager-chief engineer.
Ventura County Flood Control District, A. P. Stokes, engineer-manager.
Western Municipal Water District, H. A. Hicks, general manager.

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army; U.S. Navy; Bureau of Indian Affairs, Bureau of Reclamation and National Park Service, U.S. Department of the Interior.

The following organizations aided in collecting records: Bear Valley Mutual Water Co., Metropolitan Water District of Southern California, Fontana Union Water Co., Rancho California, Southern California Edison Co., and Vista Irrigation District.

ACKNOWLEDGMENT

Responsibility for collection of data and preparation of data reports is delegated to the three subdistrict offices in the California District of the Water Resources Division. This volume was prepared by personnel of the Laguna Niguel subdistrict office under the direction of D. H. Appel and Darwin Knochenmus, successive subdistrict chiefs. Special acknowledgment is made of the contribution of R. J. Longfield, T. P. Landis, and C. E. Lamb who direct the work in the hydrologic data section. Report data were provided by the Santa Barbara field office, South Coast and Desert field group, and Santa Ana field group supervised by J. A. Singer, H. E. Skjold, and H. R. Frisbie. Ground-water data were handled by Mary J. Mermod. Elenere A. Amidon and Kay L. Spiegl supervised computer processing and assisted in review of data for publication. Manuscript typing and assembly of the report was done by Julia A. Schulenburg and Gladys M. Pigage.

HYDROLOGIC CONDITIONS

Runoff during the 1976 water year in the area covered by this volume indicated a below-normal to deficient trend throughout most of the year and averaged about 50 percent of the 1941-70 median. Total runoff at selected sites for the 1976 water year is shown in figure 1 for all of California. Runoff in the Santa Ana River basin and other coastal basins to the south was about 50 percent of the median; runoff in the Santa Clara River basin and other coastal basins to the north was about 35 percent of the median; and runoff in the Salton Sea basin was about 65 percent of the median.

Precipitation was very erratic and mostly contraseasonal. It varied throughout the area from 250 percent of normal north of the Salton Sea to greater than 100 percent of normal over most of the lower Colorado River basin, the extreme south-central part of the State, and along the international boundary. Precipitation was about 70 percent of normal in the Mojave Desert and 80 to 100 percent of normal along the entire southern coast from Santa Barbara to San Diego.

Very little rain fell in southern California during October through December 1975, and none in January 1976, the latter occurring only one other time--January 1972--in over 100 years of record. Rainfall for the Los Angeles area totaled 0.59 inches (15 mm) since July 1, 1975, as compared to the average of 7.46 inches (189 mm). The 9-month drought was temporarily ended by a south coastal storm during the period February 4-10, resulting in heavy precipitation in many areas of southern California. Totals ranged from 2.3 to 5.5 inches (58 to 140 mm) for 1 day; 5.0 to 10.2 inches (127 to 259 mm) for 3 days; and 8.7 to 15.2 inches (221 to 386 mm) for the entire 7 days. Most of this

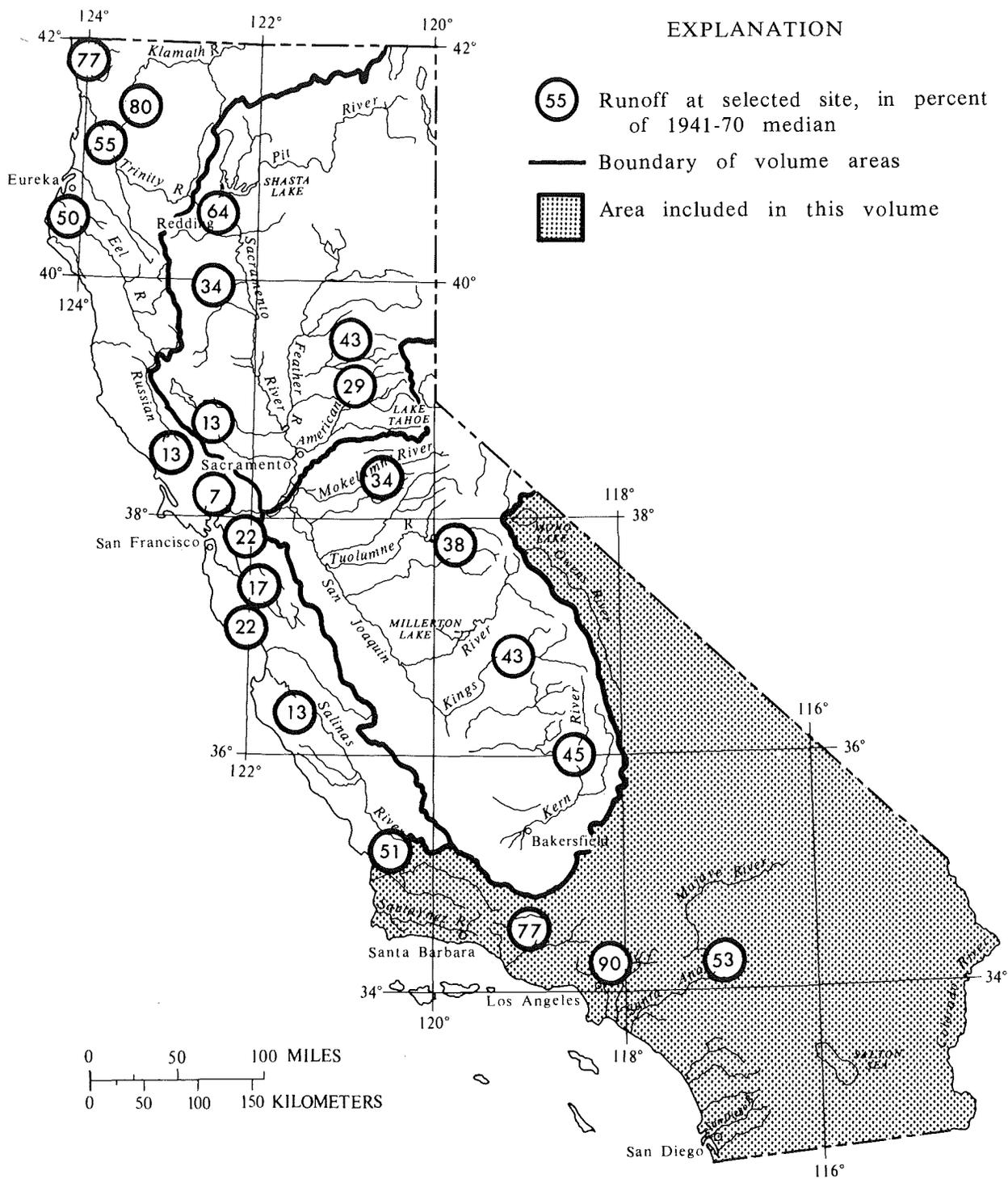


FIGURE 1.--Runoff for the current water year.

precipitation soaked into the dry soil and only minor runoff occurred, although some mudslides were evident in the Mill Creek-Big Tujunga burn areas. Medium rains March 1 and moderate rains March 3 along the southern coastline resulted in minor runoff of some of the small streams. Runoff rapidly decreased during the period April through August and was well below normal as the statewide drought continued. Tropical storm Kathleen, the first storm system of this type since September 1939, hit the desert area near the Salton Sea September 10 and 11. Kathleen brought heavy precipitation, 10 to 11 inches (254 to 279 mm) in the mountains of southern California, 2 to 3 inches (51 to 76 mm) in the desert areas, and 1 to 2 inches (25 to 51 mm) in the coastal plains. Significant flooding with resulting peaks of record occurred within a 60-mile radius of the Salton Sea, and the gage on San Felipe Creek near Westmorland was destroyed. Showers and thunderstorms over the desert area of southeastern California September 23 and 24 resulted in minor localized flooding. Thunderstorms in the Santa Clara and Santa Barbara areas September 29 and 30 produced some minor runoff.

Because of the heavy September rains, Imperial, Riverside, San Bernardino, and San Diego Counties were declared storm disaster areas. The latter three, along with Los Angeles County, were also drought disaster areas during the water year.

The quality of surface water did not change appreciably throughout the entire water year. Ground-water levels in selected wells in southern California were near normal at the beginning of the water year. They remained near average until May, when they dropped below average. The heavy use of water from ground-water aquifers in some areas has lowered the water tables considerably despite the continued diversions from surface supplies.

DEFINITION OF TERMS

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

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

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

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

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

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

Bacteria (continued)

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

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

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

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

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

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

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

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

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

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

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

Bottom material: See Bed material.

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

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

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

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

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

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

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

Cubic foot per second (FT³/S, ft³/s), is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

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

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

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

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

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

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

where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa. Diversity index values range from 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.

Ft³/s-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons or 2,445 cubic meters. It represents a runoff of approximately 0.0372 inch from 1 square mile or 0.3468 millimeter from 1 square kilometer.

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

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

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap that is required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium and carbonate (CaCO₃).

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

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

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

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

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

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

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

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

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per unit area of the habitat, usually square meter (m²), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Substrate is the physical surface upon which an organism lives.

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

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

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

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

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

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

Kingdom.....	Animal
Phylum.....	Arthropoda
Class.....	Insecta
Order.....	Ephemeroptera
Family.....	Ephemeridae
Genus.....	<i>Hexagenia</i>
Species.....	<i>limbata</i>

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

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

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

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

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

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

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

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

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

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first-rank, second-rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an 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 11264500 which appears just to the left of the station name, includes the 2-digit number "11" plus the 6-digit downstream order number "264500". In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records for California are in Part 9 (Colorado River basin), Part 10 (The Great Basin), and Part 11 (Pacific slope basins in California). All records for a drainage basin encompassing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

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

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

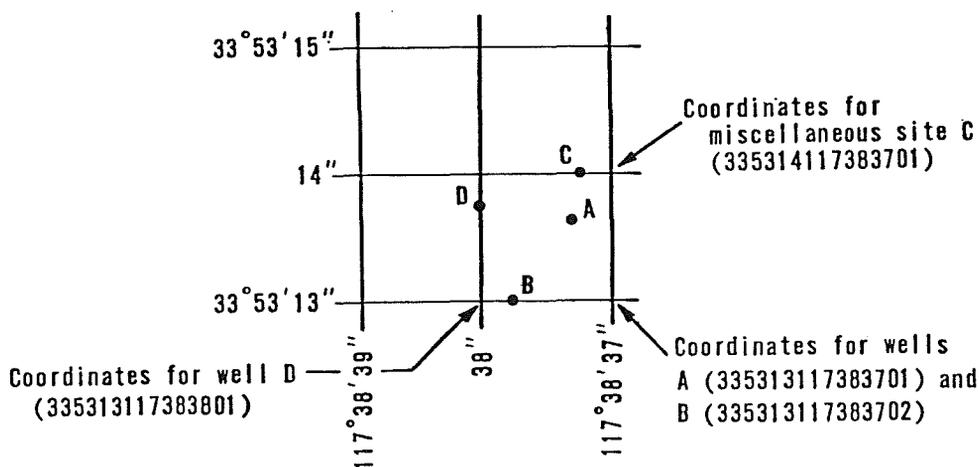


Figure 2.--System for numbering wells and miscellaneous sites (latitude and longitude).

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 5S/10E-22G1 M, the part of the number preceding the slash indicates the township (T.5 S.) and the number between the slash and hyphen indicates the range (R.10 E.); the digits following the hyphen indicate the section (sec.22); the letter following the section number indicates the 40-acre subdivision of the section. Within each 40-acre tract, the wells are numbered serially, as indicated by the final digit. The final letter, separated from the rest of the number by a space, indicates the base line and meridian. Base-line and meridian designations are as follows: H, Humboldt; M, Mount Diablo; S, San Bernardino. See figure 3.

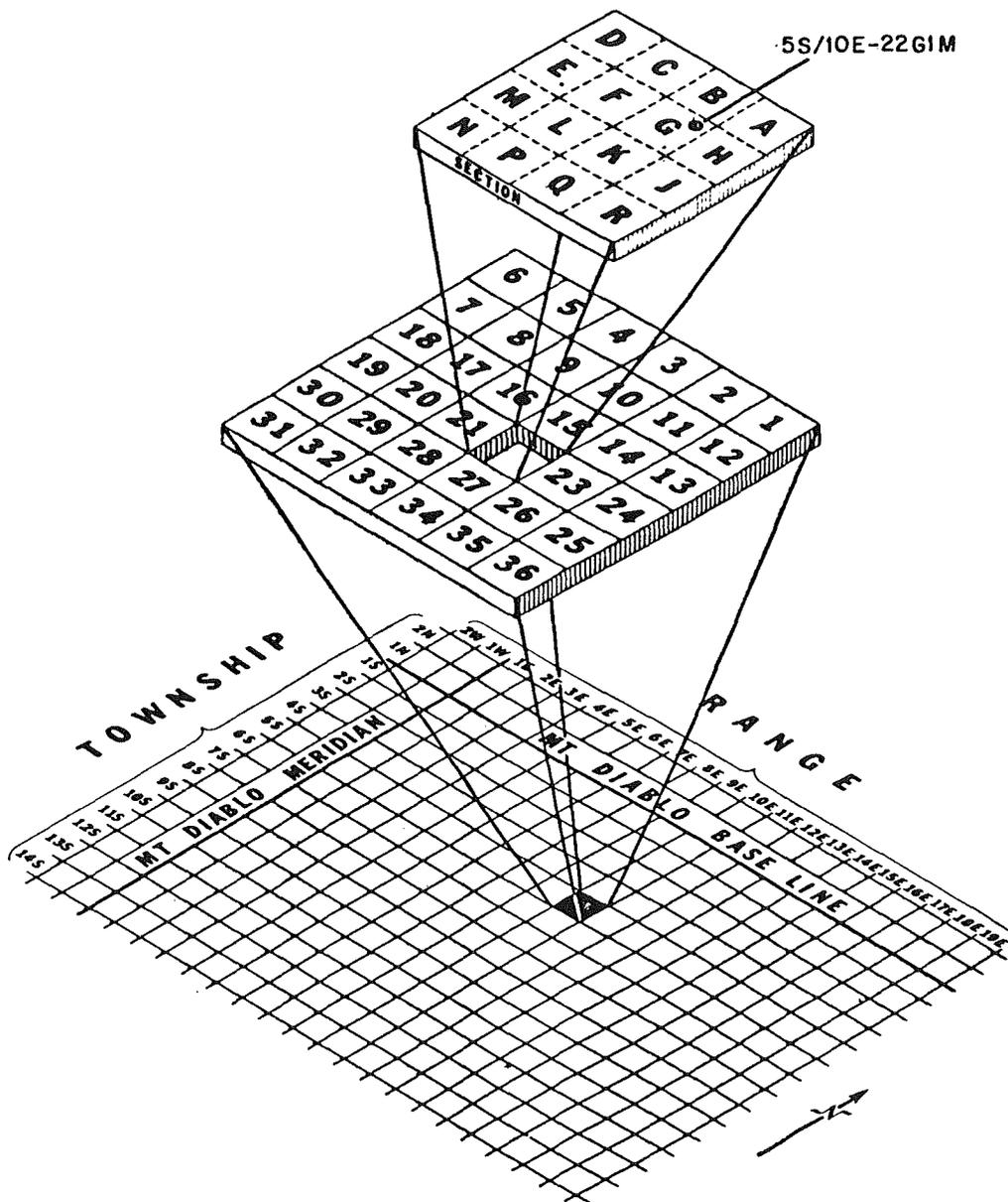


Figure 3.--Local well-numbering system.

SPECIAL NETWORKS AND PROGRAMS

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

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

Volume 2:

11475500 Elder Creek near Branscomb, CA

Volume 3:

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

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

Volume 1:

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

Volume 2:

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

Volume 3:

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

Volume 4:

11447650 Sacramento River at Freeport, CA

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

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

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

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams and canals and records of stage, of lakes and reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from direct readings on a nonrecording gage or from a water-stage recorder that gives a continuous graph of the fluctuations or a tape punched at selected time intervals. 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 determined by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Accuracy of field data and computed results

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

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

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 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 157, "Index of Stream-Gaging Stations in and Adjacent to California." The National Water Data Exchange, Water Resources Division, U.S. Geological Survey, National Center, Reston, VA 22092, maintains an index of such sites. Information on records at specific sites can be obtained upon request.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

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

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

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

Water analysis

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

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

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

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

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

Water temperature

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

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

Sediment

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

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

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

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

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

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

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

Turbidity

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

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

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

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

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

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

Each well is identified by means of (1) a 15-digit number that is based on the grid system of latitude and longitude as shown in figure 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 mean sea level (msl) or land-surface datum (lsd). Mean sea level is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above mean sea level is given in the well description. The height of the measuring point (MP above or below land-surface datum), if known, is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (EOM).

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

PUBLICATIONS OF TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

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

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

- 1-D1. *Water temperature-influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr. J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages. \$1.60.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages. \$0.85.
- 2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages. \$1.90.
- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages. \$1.75.
- 3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages. \$0.25.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages. \$0.20.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3, 1968. 60 pages. \$0.40.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages. \$1.00.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5, 1967. 29 pages. \$0.30.
- 3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6, 1968. 13 pages. \$0.20.
- 3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages. \$0.45.
- 3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages. \$1.25.
- 3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages. \$0.40.
- 3-A12. *Fluorometric procedures for dye tracing*, by J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A12. 1968. 31 pages. \$0.35. Not currently available.
- 3-B1. *Aquifer-test design, observation, and data analyses*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages. \$0.70.
- 3-B2. *Introduction to ground-water hydraulics--a programed text for self-instruction*, by D. S. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages. \$2.50
- 3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages. \$0.65.
- 3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2, 1970. 59 pages. \$0.70.
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- 4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages. \$.30.
- 4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968 15 pages. \$0.20.
- 4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages. \$0.65.
- 4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages. \$0.75.
- 4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages. \$0.75.
- 4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages. \$0.65.
- 5-A1. *Methods for collection and analysis of water samples for dissolved minerals and gases*, by Eugene Brown, M. W. Skougstad, and M. J. Fishman: USGS--TWRI Book 5, Chapter A1. 1970. 160 pages. \$2.40.
- 5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages. \$0.80.
- 5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages. \$0.90.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by K. V. Slack, R. C. Averett, P. E. Greeson, and R. G. Lipscomb: USGS--TWRI Book 5, Chapter A4. 1973. 165 pages. \$1.95.
- 5-A5.* *Methods for determination of radioactive substances in water and fluvial sediments*, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages. \$16.00.
- 5-C1. *Laboratory theory and methods for sediment analyses*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages. \$0.65.
- 7-C1. *Finite-difference model for aquifer 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. \$2.30.
- 8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968, 23 pages. \$0.70.
- 8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages. \$0.40.

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

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

LOCATION.--Lat 36°00'55", long 114°44'16", in NE¼SW¼ sec.3, T.30 N., R.23 W., Gila and Salt River meridian, or SW¼NE¼ sec.29, T.22 S., R.35 E., Mount Diablo meridian, Mohave-Clark Counties, in powerhouse at downstream side of Hoover Dam.

DRAINAGE AREA (REVISED)--171,700 mi² (444,700 km²), approximately, including 3,959 mi² (10,254 km²) in Great Divide basin in southern Wyoming, which is noncontributing (previously considered part of the Missouri River basin).

PERIOD OF RECORD.--October 1933 to current year (prior to April 1934, monthly discharge only, published in WSP 1313). Published as "near Willow Beach" 1933-39 and as "below Boulder Dam" 1939-45.

GAGE.--Totalizing flowmeters on each turbine in Hoover Dam powerhouse. Prior to Nov. 1, 1939, water-stage recorder at site 9 mi (14 km) downstream at datum 594.8 ft (181.30 m) above mean sea level. Nov. 1, 1939, to June 30, 1958, water-stage recorder at site 0.8 mi (1.3 km) downstream at datum 600.35 ft (182.987 m) above mean sea level.

AVERAGE DISCHARGE.--42 years (1934-76), 13,340 ft³/s (377.8 m³/s), 9,665,000 acre-ft/yr (11,900 hm³/yr) unadjusted for storage in Lake Mead.

EXTREMES.--Current year: Maximum daily discharge, 22,900 ft³/s (849 m³/s) Aug. 26; minimum daily, 2,510 ft³/s (71.1 m³/s) Nov. 1. Period of record: Maximum daily discharge, 36,000 ft³/s (1,020 m³/s) Jan. 28, 1942; no flow at Hoover Dam part of Feb. 10, 1935; minimum daily discharge, 152 ft³/s (4.30 m³/s) Feb. 10, 1935.

REMARKS.--Flow regulated by Lake Mead since Feb. 1, 1935. Many diversions above station for irrigation, industrial, and municipal use. Records of chemical analyses for the current year are published on following pages.

COOPERATION.--Records furnished by Bureau of Reclamation.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13800	2510	10300	10400	6020	17000	17000	12100	17200	14000	5390	15000
2	12000	2570	7840	13400	10500	16300	15400	7070	17500	15200	15600	17600
3	8760	6670	6350	10400	11600	16300	11400	19700	14600	7060	17300	16600
4	6320	8840	7270	9140	11700	15000	11500	19000	12800	6710	16600	11800
5	6000	8330	10800	11200	14000	16300	15300	21300	5990	6810	17700	4290
6	6430	8660	5910	10000	16100	10300	14500	21000	6300	18100	16100	4240
7	6940	10100	6870	6260	7000	10400	16000	18600	13000	16600	7060	17700
8	7510	8830	9040	7430	7700	16000	16100	9570	13800	16800	5280	16400
9	9100	7170	7690	6780	11900	17000	14800	8210	13200	14500	16800	14200
10	8140	10900	9990	4160	6850	18700	12800	21100	13200	6390	13600	19300
11	2710	11800	9760	5500	7280	18100	10100	20800	12100	5230	14900	6280
12	3350	8540	9810	5710	7340	19900	14600	19400	5890	15400	15900	5380
13	6050	9800	4590	8040	4270	11700	16600	17700	4670	15900	16300	14200
14	13400	9010	4200	5520	4240	8150	17400	16400	17600	17500	6770	13500
15	16300	7720	8980	6340	3680	17100	15400	9090	14200	15900	7680	13100
16	16900	5630	7370	7470	4310	16900	18000	9210	13400	17800	15800	12700
17	14800	9220	9710	6140	5250	17100	6600	17100	14300	8300	17600	12500
18	6080	8520	8510	5420	4070	16700	7030	19400	15000	6190	15700	3620
19	8990	9050	7840	5990	5610	16800	13800	19000	10200	15100	18100	3340
20	9760	8360	7640	7180	5570	8570	13200	14800	5050	18300	19700	9830
21	10600	8280	6230	6870	3190	9490	16000	14500	14200	19000	11900	10300
22	8120	5580	12500	8820	3390	12800	16100	7140	11800	16800	6860	8750
23	8960	6480	10500	10600	9800	14000	18100	7090	13800	18100	19400	10700
24	9680	8750	7660	7070	12400	16000	12600	15900	15200	9080	18600	9780
25	8510	9680	5130	6160	15300	14300	10200	20000	13200	5970	20400	3770
26	6260	10500	8240	11100	16000	15000	18900	19000	6860	17000	22900	3790
27	8400	7670	4570	10500	15100	11200	16800	18700	4790	19500	21800	8410
28	8050	10700	5500	10800	11400	7130	15200	19800	13000	16900	10900	6660
29	6130	8560	7230	11100	8270	18100	20400	14400	15000	17600	8570	7560
30	8430	6510	11500	11300	---	19400	21600	5010	13300	19600	16000	5570
31	10300	---	13000	9730	---	16900	---	6240	---	7480	13400	---
TOTAL	276780	244940	252530	256530	249840	458640	443430	468330	361150	424820	450610	306870
MEAN	8928	8165	8146	8275	8615	14790	14780	15110	12040	13700	14540	10230
MAX	16900	11800	13000	13400	16100	19900	21600	21300	17600	19600	22900	19300
MIN	2710	2510	4200	4160	3190	7130	6600	5010	4670	5230	5280	3340
AC-FT	549000	485800	500900	508800	495600	909700	879500	928900	716300	842600	893800	608700
CAL YR 1975 TOTAL	4218430			11560		20900		2510		8367000		
WTR YR 1976 TOTAL	4194470			11460		22900		2510		8320000		

COLORADO RIVER MAIN STEM

09421500. COLORADO RIVER BELOW HOOVER DAM, ARIZ.-NEV.
(National stream-quality accounting network station)

LOCATION.--Lat 36°00'38", long 114°44'31", in SW¼SW¼ sec.3, T.30 N., R.23 W., Gila and Salt River meridian, Mohave County, Ariz., or in SW¼SE¼ sec.29, T.22 S., R.65 E., Mount Diablo meridian, Clark County, Nev., 0.3 mi (0.5 km) downstream from gaging station in powerhouse at downstream side of Hoover Dam.

DRAINAGE AREA (REVISED)--171,800 mi² (445,000 km²), approximately, including 3,959 mi² (10,254 km²) in Great Divide basin in southern Wyoming which is noncontributing (previously considered part of the Missouri River basin).

PERIOD OF RECORD.--Chemical analyses: October 1939 to current year.
Water temperatures: October 1941 to September 1957.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA, MG/L)	NON-CARBONATE HARDNESS (MG/L)
OCT										
07...	0830	8300	1140	7.9	13.0	1	--	--	360	220
08...	0815	8020	--	--	14.0	--	B1	B3	--	--
NOV										
11...	0830	23000	1060	7.2	12.5	0	--	--	340	200
12...	0800	6600	--	--	12.0	--	B1	B1	--	--
DEC										
09...	0900	14220	1070	6.9	12.5	0	--	--	320	190
10...	0830	10820	--	--	12.0	--	B1	B9	--	--
JAN										
13...	0830	16720	1100	7.7	12.0	1	--	--	340	200
14...	0815	6220	--	--	12.5	--	B1	B10	--	--
FEH										
10...	1000	9400	1080	7.6	11.5	2	--	--	320	180
11...	1000	12500	--	--	11.5	--	B1	B1	--	--
MAR										
09...	0915	23820	1090	7.7	12.0	0	--	--	320	190
10...	0800	21120	--	--	12.0	--	B1	B1	--	--
APR										
13...	0830	19920	1080	7.8	12.5	1	--	--	320	190
14...	0830	19150	--	--	11.5	--	B1	B1	--	--
MAY										
11...	0715	22400	1090	8.1	12.5	1	--	--	330	200
12...	0800	21820	--	--	12.5	--	B1	B1	--	--
JUN										
08...	0800	13600	1080	7.9	12.0	1	--	--	320	190
09...	0830	18700	--	--	12.5	--	B1	B1	--	--
JUL										
13...	0800	14820	1100	8.0	12.5	0	--	--	340	200
14...	0800	18720	--	--	12.5	--	B1	B9	--	--
AUG										
10...	0730	9250	1080	8.0	15.0	0	--	--	340	200
11...	0800	17930	--	--	12.5	--	B1	B1	--	--
SEP										
14...	0800	12860	1070	8.0	12.5	1	--	--	330	200
15...	0800	14020	--	--	13.0	--	B10	B7	--	--

B--Results based on non-ideal colony count.

COLORADO RIVER MAIN STEM

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ARSFENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED HOKON (H) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)
NOV								
11...	0830	3	3	130	<10	1	4	2
11...	0930	--	--	--	--	--	<10	--
FEH								
10...	1000	4	2	130	<10	1	0	0
MAY								
11...	0715	4	4	110	<10	0	0	0
AUG								
10...	0730	3	2	130	<10	1	0	0

DATE	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
NOV									
11...	<50	0	<10	1	0	0	<100	6	10
11...	--	--	--	--	--	--	--	--	--
FEH									
10...	<50	1	<10	0	100	10	<100	3	30
MAY									
11...	<50	0	20	3	40	10	<100	3	0
AUG									
10...	<50	1	20	0	120	20	<100	0	0

DATE	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV								
11...	4	.0	.0	3	4	50	4	2.9
11...	--	--	--	--	--	--	--	--
FEH								
10...	0	.1	.0	4	3	20	0	3.9
MAY								
11...	0	.0	.0	3	3	40	20	4.4
AUG								
10...	10	.0	.0	3	3	40	0	1.9

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DHML NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED ORTHO-PHOSPHORUS (P) (MG/L)
OCT 07...	0830	.34	.01	.35	.35	.51	.86	3.8	.03	.01
OCT 11...	0830	.35	.01	.36	.36	.22	.58	2.6	.00	.00
DEC 09...	0900	.42	.00	.42	.42	.21	.63	2.8	.00	.00
DEC 14...	0830	.38	.01	.42	.39	.58	1.0	4.4	.00	.01
FEB 11...	1000	.53	.00	.54	.53	.76	1.3	5.8	.04	.03
FEB 04...	0915	.47	.00	.39	.47	.24	.63	2.8	.00	.02
APR 13...	0830	.41	.00	.41	.41	.49	.90	4.0	.03	.01
MAY 11...	0715	.42	.00	.41	.42	--	--	--	.02	.01
JUN 04...	0800	.38	.00	.37	.38	.38	.75	3.3	.00	.02
JUL 13...	0800	.43	.00	.43	.43	.72	1.2	5.1	.02	.01
AUG 10...	0730	.36	.00	.42	.36	.32	.74	3.3	.00	.02
SEP 14...	0800	.44	.01	.44	.45	.11	.55	2.4	.01	.02

DATE	TIME	SUS-PENDED SEDIMENT (MG/L)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR 13...	1230	1	79
MAY 11...	1120	0	--
JUN 08...	1440	0	--
JUL 13...	1115	1	83
AUG 10...	1130	0	--
SEP 14...	1135	0	--

COLORADO RIVER MAIN STEM

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

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

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll ^a	Chlorophyll ^b	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight	(mg/m ²)	(mg/m ²)		
May 11	28	.308	.154	.741	.061	210	Polyethylene strip
Aug. 10	28	2.80	1.90	1.10	.036	820	Polyethylene strip

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

NOV. 5, 1974
0800 HOURS

IDENTIFICATION OF PHYTOPLANKTON

3,800 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT	
CHRYSOPHYTA				
.BACILLARIOPHYCEAE	DIATOMS			
..PENNALES	PENNATE			
...ACHNANTHACEAE				
...RHODOSPHENIA		100	3	
...CYMBELLACEAE				
...CYMBELLA		140	4	
...FRAGILARIACEAE				
...FRAGILARIA		68	2	
...SYNEDRA		100	3	
...GOMPHONEMATACEAE				
...GOMPHONEMA		34	1	
...NAVICULACEAE	NAVICULOID			
D ...NAVICULA				
	TOTALS	<u>580</u>	<u>15</u>	
		1,000	28	1.940=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
.MYXOPHYCEAE				
..OSCILLATORIALES	FILAMENTOUS			
...OSCILLATORIA				
D ...OSCILLATORIA				
	TOTALS	<u>2,800</u>	<u>72</u>	
		2,800	72	0.000=DIVERSITY
PYRRHOPHYTA	FIRE ALGAE			
.DINOPHYCEAE	DINOFAGELLATES			
..PERIDINIALES				
...GLENODINIACEAE				
...GLENODINIUM				
	TOTALS	<u>34</u>	<u>1</u>	
		34	1	0.000=DIVERSITY

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

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DEC. 3, 1974
0800 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,300 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT	
CHLOROPHYTA	GREEN ALGAE			
.CHLOROPHYCEAE				
..CHLOROCOCCALES				
...OOCYSTACEAE				
....OOCYSTIS		48	4	
...SCENEDESMACEAE				
....ACTINASTRUM		14	1	
..VOLVOCALES				
...CHLAMYDOMONADACEAE				
....CHLAMYDOMONAS		83	7	
...VOLVOCAEAE				
....PANDORINA				
	TOTALS	55	4	
		200	16	1.800=DIVERSITY
CHRYSOPHYTA				
.BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CENTRIC			
...COSCINODISCAEAE				
....CYCLOTELLA		41	3	
..PENNALES	PENNATE			
...FRAGILARIACEAE				
....ASTERIONELLA		7	1	
...SYNEDRA		100	8	
...GOMPHONEMATAEAE				
....GOMPHONEMA		14	1	
..NAVICULACEAE	NAVICULOID			
...NAVICULA		69	5	
...NITZSCHIAEAE				
....NITZSCHIA		28	2	
	TOTALS	260	20	2.160=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
.MYXOPHYCEAE				
..CHROOCOCCALES	COCROID			
...CHROOCOCCACEAE				
....AGMENELLUM		110	9	
...OSCILLATORIALES	FILAMENTOUS			
....OSCILLATORIAEAE				
D ....LYNGBYA		690	55	
	TOTALS	800	64	0.579=DIVERSITY

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

COLORADO RIVER MAIN STEM

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

JAN. 7, 1975
0950 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,500 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
.CHLOROPHYCEAE				
..CHLOROCOCCALES				
...OOCYSTACEAE		28	2	
....CHLORELLA				
....SCENEDESMACEAE				
....SCENEDESMUS				
TOTALS		<u>110</u> 140	<u>7</u> 9	0.722=DIVERSITY
CHRYSTOPHYTA	DIATOMS			
.BACILLARIOPHYCEAE	CENTRIC			
..CENTRALES				
...COSGINODISCACEAE				
....CYCLOTELLA		55	4	
..PENNALES	PENNATE			
...NAVICULACEAE	NAVICULOID			
....STAURONEIS				
TOTALS		<u>14</u> 69	<u>1</u> 5	0.722=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
.MYXOPHYCEAE				
..CHROOCOCCALES	COCCOID			
...CHROOCOCCACEAE				
D ...AGMENEILLUM		550	36	
..OSCILLATORIALES	FILAMENTOUS			
...OSCILLATORIAEAE				
D ...OSCILLATORIA				
TOTALS		<u>760</u> 1,300	<u>50</u> 86	0.982=DIVERSITY
PYRRHOPHYTA	FIRE ALGAE			
.DINOPHYCEAE	DINOFLAGELLATES			
..PERIDINIALES				
...GLENODINIAEAE				
....GLENODINIUM				
TOTALS		<u>14</u> 14	<u>1</u> 1	0.000=DIVERSITY

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

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

FEB. 11, 1975
0900 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1.100 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
...CHLOROCOCCALES				
....OOCYSTACEAE				
.....ANKISTRODESMUS		9	1	
...SCENEDESMACEAF				
....SCENEDESMUS				
	TOTALS	<u>18</u> 27	<u>2</u> 3	0.918=DIVERSITY
CHRYSTOPHYTA				
..BACILLARIOPHYCEAF	DIATOMS			
...CENTRALES	CENTRIC			
....COSCINODISCACEAE				
.....CYCLOTELLA		9	1	
...PENNALES	PFNNATE			
....CYMBELLACEAE				
.....AMPHORA				
	TOTALS	<u>9</u> 18	<u>1</u> 2	1.000=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
..MYXOPHYCEAE				
...CHROOCOCCALES	COCCOID			
....CHROOCOCCACEAE				
.....ANACYSTIS		9	1	
...OSCILLATORIALES	FILAMENTOUS			
....OSCILLATORIAICEAE				
D ...LYNGRYA				
	TOTALS	<u>1,000</u> 1,000	<u>95</u> 96	0.072=DIVERSITY

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

COLORADO RIVER MAIN STEM

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

MAR. 11, 1975
0815 HOURS

IDENTIFICATION OF PHYTOPLANKTON

71 CELLS/ML

_ORGANISM_NAME	_COMMON_NAME	CELLS/ML	PER_CENT	
CHRYSOPHYTA				
..BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CENTRIC			
...COSCIDINACEAE				
...MELOSIRA		8	11	
..PENNALES	PENNATE			
...ACHNANTHACEAE				
...COCCONEIS		8	11	
...NAVICULACEAE	NAVICULOID			
D ...NAVICULA		47	67	
...NITZSCHIACEAE				
...NITZSCHIA				
	TOTALS	71	100	1.447=DIVERSITY

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

APR. 8, 1975
0900 HOURS

IDENTIFICATION OF PHYTOPLANKTON

320 CELLS/ML

_ORGANISM_NAME	_COMMON_NAME	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
..CHLOROCOCCALES				
...SCENEDESMACEAE				
...SCENEDESMUS				
	TOTALS	42	13	0.000=DIVERSITY
CHRYSOPHYTA				
..BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CENTRIC			
...COSCIDINACEAE				
D ...CYCLOTILLA		210	67	
..PENNALES	PENNATE			
...ACHNANTHACEAE				
...ACHNANTHES		21	7	
...COCCONEIS		21	7	
...NAVICULACEAE	NAVICULOID			
...NAVICULA				
	TOTALS	270	88	1.145=DIVERSITY

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

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

MAY 6, 1975
0745 HOURS

IDENTIFICATION OF PHYTOPLANKTON

64 CELLS/ML

ORGANISM__NAME_____	COMMON__NAME_____	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
...CHLOROCOCCALFS				
...OOCYSTACEAE				
....CHLORELLA				
	TOTALS	<u>8</u> 8	<u>12</u> 12	0.000=DIVERSITY
CHRYSTOPHYTA				
..BACILLARIOPHYCEAF	DIATOMS			
..CENTRALES	CENTRIC			
...COSCINODISCACEAE				
D ...CYCLOTELLA		32	50	
..PENNALFS	PENNATE			
...NAVICULACEAE	NAVICULOID			
...NAVICULA		8	12	
...NITZSCHIAEAE				
D ...NITZSCHIA		<u>16</u> 56	<u>25</u> 87	1.379=DIVERSITY

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

JUNE 10, 1975
0800 HOURS

IDENTIFICATION OF PHYTOPLANKTON

190 CELLS/ML

ORGANISM__NAME_____	COMMON__NAME_____	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
...CHLOROCOCCALFS				
...OOCYSTACEAE				
....OOCYSTIS				
	TOTALS	<u>4</u> 4	<u>2</u> 2	0.000=DIVERSITY
CHRYSTOPHYTA				
..BACILLARIOPHYCEAE	DIATOMS			
..PENNALES	PENNATE			
...CYMBELLACEAE				
....CYMBELLA		4	2	
...FRAGILARIAEAE				
D ...FRAGILARIA		160	84	
...NAVICULACEAE	NAVICULOID			
...NAVICULA		<u>23</u> 180	<u>12</u> 98	0.676=DIVERSITY

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

COLORADO RIVER MAIN STEM

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

OCT. 7, 1975
0830 HOURS

IDENTIFICATION OF PHYTOPLANKTON

610 CELLS/ML

_ORGANISM_NAME	_COMMON_NAME	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
•CHLOROPHYCEAE				
••CHLOROCOCCALES				
•••DCCYSTACEAE				
••••TETRAEDRON		7	1	
•••SCENEDESMACEAE				
L ••••SCENEDESMUS			0	
••ULOTRICHALES				
•••ULOTRICHACEAE				
D ••••ULOTHRIX				
	TOTALS	<u>140</u> 150	<u>23</u> 24	0.267=DIVERSITY
CHRYSOPHYTA				
•BACILLARIOPHYCEAE	DIATOMS			
••CENTRALES	CENTRIC			
•••COSCINODISACEAE				
••••CYCLOTELLA		7	1	
••••MELOSIRA		13	2	
••PENNALES	PENNATE			
•••ACHNANTHACEAE				
••••RHOICOSPHENIA		13	2	
•••CYMBELLACEAE				
••••CYMBELLA		7	1	
•••DIATOMACEAE				
L ••••DIATOMA			0	
•••NAVICULACEAE	NAVICULOID			
D ••••NAVICULA		99	16	
•••NITZSCHIAEAE				
••••NITZSCHIA				
	TOTALS	<u>20</u> 160	<u>3</u> 25	1.778=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
•MYXOPHYCEAE				
••OSCILLATORIALES	FILAMENTOUS			
•••NOSTOCACEAE				
••••ANABAENOPSIS		33	5	
•••OSCILLATORIAEAE				
D ••••LYNGBYA				
	TOTALS	<u>260</u> 300	<u>43</u> 48	0.503=DIVERSITY
PYRRHOPHYTA	FIRE ALGAE			
•DINOPHYCEAE	DINOFLAGELLATES			
••PERIDINIALES				
•••PERIDINIACEAE				
••••PERIDINIUM				
	TOTALS	<u>7</u> 7	<u>1</u> 1	0.000=DIVERSITY

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

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

NOV. 11, 1975
0830 HOURS

IDENTIFICATION OF PHYTOPLANKTON

610 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
...CHLOROCOCCALES				
...DCCYSTACEAE				
....SELENASTRUM				
	TOTALS	21	3	0.000=DIVERSITY
CHRYSTOPHYTA				
..BACILLARIOPHYCEAE	DIATOMS			
...CENTRALES	CFNTRIC			
...COSCINODISCAEAL				
...CYCLOTELLA		10	2	
...MELOSIRA		21	3	
..PENNALES	PENNATE			
...ACHNANTHACEAE				
...ACHNANTHES		10	2	
L ...COCCONEIS			0	
...FRAGILARIACEAE				
...FRAGILARIA		10	2	
...NAVICULACEAE	NAVICULOID			
...NAVICULA		41	7	
...NITZSCHIAEAE				
...NITZSCHIA		10	2	
	TOTALS	100	18	2.322=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
..MYXOPHYCEAE				
...OSCILLATORIALES	FILAMENTOUS			
...OSCILLATORIAEAE				
D ...LYNGBYA		440	73	
...OSCILLATORIA		41	7	
	TOTALS	490	80	0.420=DIVERSITY

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

COLORADO RIVER MAIN STEM

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

JAN. 13, 1976
0830 HOURS

IDENTIFICATION OF PHYTOPLANKTON

400 CELLS/ML

_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
..CHLOROCOCCALES				
...OCYSTACEAE				
L ...CHODATELLA			0	
...SCENEDESMACEAE				
...SCENEDESMUS				
	TOTALS	<u>17</u> 17	<u>4</u> 4	0.000=DIVERSITY
CHRYSOPHYTA	DIATOMS			
..BACILLARIOPHYCEAE	CENTRIC			
..CENTRALES				
...COSCINODISCAEAE				
...CYCLOTELLA		34	8	
..PENNALES	PENNATE			
...FRAGILARIACEAE				
...FRAGILARIA		34	8	
...NAVICULACEAE	NAVICULOID			
D ...NAVICULA				
	TOTALS	<u>52</u> 130	<u>15</u> 31	1.530=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
..MYXOPHYCEAE				
..CHROOCOCCALES	COCCOID			
...CHROOCOCCACEAE				
D ...ANACYSTIS				
	TOTALS	<u>260</u> 260	<u>65</u> 65	0.000=DIVERSITY

NOTE: D - DOMINANT ORGANISM! GREATER OR EQUAL TO 15%
L - LESS THEN 1%! MAY NOT HAVE BEEN ACTUALLY COUNTEDFEB. 10, 1976
1000 HOURS

IDENTIFICATION OF PHYTOPLANKTON

68 CELLS/ML

_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT	
CHRYSOPHYTA	DIATOMS			
..BACILLARIOPHYCEAE	CFNTRIC			
..CENTRALES				
...COSCINODISCAEAE				
D ...CYCLOTELLA		54	80	
..PENNALES	PENNATE			
...FRAGILARIACEAE				
L ...FRAGILARIA			0	
...NAVICULACEAE	NAVICULOID			
D ...NAVICULA				
	TOTALS	<u>14</u> 68	<u>20</u> 100	0.722=DIVERSITY

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

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

MAR. 9, 1976
0915 HOURS

IDENTIFICATION OF PHYTOPLANKTON

390 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
...CHLOROCOCCALES				
...OOCYSTACEAE				
...OOCYSTIS		44	11	
...TETRAEDRON		22	6	
TOTALS		66	17	0.918=DIVERSITY
CHRYSOPHYTA				
..BACILLARIOPHYCEAE	DIATOMS			
...CENTRALES	CENTRIC			
...COSCINODISCAEAE				
D...CYCLOTELLA		200	50	
...MELOSIRA		44	11	
..PENNALES	PENNATE			
...NITZSCHIACEAE				
...NITZSCHIA		22	6	
TOTALS		260	67	1.041=DIVERSITY
..CHRYSOPHYCEAE	YELLOW-BROWN ALGAE			
...CHRYSONOMADALES				
...OCHROMONADACEAE				
...OCHROMONAS		44	11	
TOTALS		44	11	0.000=DIVERSITY
PYRRHOPHYTA	FIRE ALGAE			
..DINOPHYCEAE	DINOFLAGELLATES			
...PERIDINIALES				
...PERIDINIACEAE				
...PERIDINIUM		22	6	
TOTALS		22	6	0.000=DIVERSITY

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

COLORADO RIVER MAIN STEM

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

APR. 13, 1976

0830 HOURS

IDENTIFICATION OF PHYTOPLANKTON

650 CELLS/ML

_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
..CHLOROCOCCALES				
...OOCYSTACEAE				
L ...OOCYSTIS			0	
...VOLVOCALES				
...PHACOTACEAE				
...PHACOTUS				
TOTALS		<u>6</u> 6	<u>1</u> 1	0.000=DIVERSITY
CHRYSOPHYTA				
..BACILLARIOPHYCEAE	DIATOMS			
..PENNALES	PENNATE			
...FRAGILARIACEAE				
...FRAGILARIA		23	4	
...SYNEDRA		18	3	
...NITZSCHIAEAE				
...DENTICULA				
TOTALS		<u>6</u> 47	<u>1</u> 8	1.406=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
..MYXOPHYCEAE				
..CHROOCOCCALES	COCCOID			
...CHROOCOCCACEAE				
D ...ANACYSTIS		320	49	
...OSCILLATORIALES	FILAMENTOUS			
...OSCILLATORIAEAE				
D ...LYNGBYA				
TOTALS		<u>280</u> 590	<u>43</u> 92	0.997=DIVERSITY

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

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

MAY 11, 1976
0715 HOURS

IDENTIFICATION OF PHYTOPLANKTON

150 CELLS/ML

ORGANISM_NAME	COMMON_NAME	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
...CHLOROCOCCALFS				
...OOCYSTACEAE				
...ANKISTRODESMUS		5	4	
...KIRCHNERIELLA		11	7	
...SCENEDESMACEAE				
...SCENEDESMUS				
TOTALS		22	14	
		38	25	1.379=DIVERSITY
CHRYSOPHYTA				
..BACILLARIOPHYCEAF	DIATOMS			
..CFNTRALS	CFNTRIC			
...COSCINODISCEAEAF				
...MELOSIRA		22	14	
..PENNALES	PENNATE			
...ACHNANTHACEAE				
...ACHNANTHES		5	4	
...CYMBELLACEAE				
...CYMBELLA		5	4	
...FRAGILARIACEAF				
...ASTERIONELLA		16	11	
...NAVICULACEAE	NAVICULOID			
...NAVICULA		5	4	
...NITZSCHIAEAE				
D ...NITZSCHIA		32	21	
TOTALS		86	58	2.233=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
..MYXOPHYCEAE				
..OSCILLATORIALES	FILAMENTOUS			
...NOSTOCACEAE				
...ANABAENA		22	14	
...OSCILLATORIAEAE				
...SPIRULINA				
TOTALS		5	4	
		27	18	0.722=DIVERSITY

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

JUNE 8, 1976
0800 HOUR

IDENTIFICATION OF PHYTOPLANKTON

980 CELLS/ML

ORGANISM_NAME	COMMON_NAME	CELLS/ML	PER_CENT	
CHRYSOPHYTA				
..BACILLARIOPHYCEAF	DIATOMS			
..PENNALES	PENNATE			
...FRAGILARIACEAE				
...SYNEDRA		10	1	
...NAVICULACEAE	NAVICULOID			
L ...NAVICULA				
TOTALS		10	1	0.000=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
..MYXOPHYCEAE				
..OSCILLATORIALES	FILAMENTOUS			
...OSCILLATORIAEAE				
D ...OSCILLATORIA		970	99	
TOTALS		970	99	0.000=DIVERSITY

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

COLORADO RIVER MAIN STEM

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

JULY 13, 1976
0800 HOURS

IDENTIFICATION OF PHYTOPLANKTON

810 CELLS/ML

_ORGANISM_NAME_____	_COMMON_NAME_____	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
..CHLOROCOCCALES				
...SCENEDESMACEAE				
....SCENEDESMUS		5	1	
..VOLVOCALES				
..PHACOTACEAE				
....PHACOTUS				
	TOTALS	<u>5</u> 11	<u>1</u> 2	1.000=DIVERSITY
CHRYSOPHYTA				
..BACILLARIOPHYCEAF	DIATOMS			
..CENTRALES	CENTRIC			
...COSCINODISCAEAE				
....CYCLOTELLA		5	1	
....MELOSIRA		5	1	
..PENNALES	PENNATE			
...ACHNANTHACEAE				
....ACHNANTHES		11	1	
...CYMBELLACEAE				
....CYMBELLA		11	1	
...FRAGILARIACEAF				
....FRAGILARIA		11	1	
...NAVICULACEAE	NAVICULOID			
....NAVICULA				
	TOTALS	<u>22</u> 65	<u>3</u> 8	2.418=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
..MYXOPHYCEAE				
..CHROOCOCCALES	COCCOID			
...CHROOCOCCACEAE				
....ANACYSTIS		75	9	
..OSCILLATORIALES	FILAMENTOUS			
...OSCILLATORIAEAE				
0 .....OSCILLATORIA				
	TOTALS	<u>660</u> 730	<u>81</u> 90	0.478=DIVERSITY
PYRRHOPHYTA	FIRE ALGAE			
..DINOPHYCEAE	DINOFLAGELLATES			
..PERIDINIALES				
...GLENODINIACEAE				
....GLENODINIUM				
	TOTALS	<u>5</u> 5	<u>1</u> 1	0.000=DIVERSITY

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

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

AUG. 10, 1976
0730 HOURS

IDENTIFICATION OF PHYTOPLANKTON

350 CELLS/ML

_ORGANISM_NAME_____	_COMMON_NAME_____	CELLS/ML	PER_CENT	
CHRYSTOPHYTA				
•BACILLARIOPHYCEAE	DIATOMS			
••PENNALES	PENNATE			
•••CYMBELLACEAE				
••••CYMBELLA		8	2	
••••NAVICULACEAE	NAVICULOID			
D ••••NAVICULA		51	15	
••••NITZSCHIAEAE				
••••NITZSCHIA				
	TOTALS	<u>8</u>	<u>2</u>	
		67	19	1.061=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE.			
•MYXOPHYCEAE				
••OSCILLATORIALES	FILAMENTOUS			
•••OSCILLATORIAEAE				
D ••••OSCILLATORIA		<u>280</u>	<u>80</u>	
	TOTALS	280	80	0.000=DIVERSITY

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

SEP. 14, 1976
0800 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,900 CELLS/ML

_ORGANISM_NAME_____	_COMMON_NAME_____	CELLS/ML	PER_CENT	
CHLOROPHYTA				
•CHLOROPHYCEAE	GREEN ALGAE			
••CHLOROCOCCALES				
•••OOCYSTACEAE				
••••OOCYSTIS				
	TOTALS	<u>71</u>	<u>4</u>	
		71	4	0.000=DIVERSITY
CHRYSTOPHYTA				
•BACILLARIOPHYCEAE	DIATOMS			
••PENNALES	PENNATE			
•••DIATOMACEAE				
L ••••DIATOMA			0	
••••NAVICULACEAE	NAVICULOID			
••••NAVICULA		71	4	
••••NITZSCHIAEAE				
••••NITZSCHIA				
	TOTALS	<u>18</u>	<u>1</u>	
		88	5	0.722=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
•MYXOPHYCEAE				
••OSCILLATORIALES	FILAMENTOUS			
•••NOSTOCACEAE				
D ••••CYLINDROSPERMUM		280	15	
••••OSCILLATORIAEAE				
D ••••OSCILLATORIA		<u>1,400</u>	<u>76</u>	
	TOTALS	1,700	91	0.650=DIVERSITY

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

COLORADO RIVER MAIN STEM

09423000. COLORADO RIVER BELOW DAVIS DAM, AZ-NV.

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

DRAINAGE AREA (REVISED)--173,300 mi² (448,800 km²), approximately, including 3,959 mi² (10,254 km²) in Great Divide basin in southern Wyoming, which is noncontributing (previously considered part of Missouri River basin).

PERIOD OF RECORD.--June 1905 to September 1907 (published as "at Hardyville"), March 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 500.00 ft (152.40 m) above mean sea level; gage readings have been reduced to elevations above mean sea level. 1905-7, nonrecording gage at site 4.8 mi (7.7 km) downstream at datum about 13.4 ft (4.1 m) lower. Mar. 16 to May 3, 1949, water-stage recorder at site 0.5 mi (0.8 km) downstream at present datum. May 4, 1949, to Feb. 24, 1956, water-stage recorder at site 400 ft (120 m) upstream at present datum.

AVERAGE DISCHARGE.--27 years (1949-76), 12,560 ft³/s (355.7 m³/s), 9,100,000 acre-ft/yr (11,200 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 25,500 ft³/s (722 m³/s) Apr. 28 (elevation 505.59 ft or 154.104 m); maximum elevation, 505.61 ft (154.110 m) June 30; minimum daily discharge, 2,090 ft³/s (59.2 m³/s) May 8.
1905-7: Maximum daily discharge, 116,000 ft³/s (3,290 m³/s) June 20, 1906; minimum daily, 2,850 ft³/s (80.7 m³/s) Jan. 5, 1906.
1949-76: Maximum discharge, 31,200 ft³/s (884 m³/s) Apr. 22, 1952 (elevation, 513.91 ft or 156.640 m); no flow at Davis Dam parts of several days July to September 1950 and Dec. 27, 1950, when gates in dam were closed; minimum daily discharge, 285 ft³/s (8.07 m³/s) Aug. 3, 1950.

REMARKS.--Records excellent. Flow regulated by Lake Mead since Feb. 1, 1935, and by Lake Mohave since Jan. 17, 1950. Many diversions upstream for irrigation, industrial, and municipal uses. Records of chemical analyses for the current year are published on following pages.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10800	5000	6020	7660	5180	14500	18700	18000	12000	13200	12200	14700
2	9870	6620	6200	7130	10800	15100	17400	13100	11500	13600	15000	12900
3	10800	8770	6400	6590	13200	17000	16700	15500	12700	16700	15200	13300
4	10900	8830	7500	4990	9590	15700	11400	17200	12900	12200	15700	11900
5	8030	7850	7040	5170	11600	15900	17400	17900	13100	17500	15800	10500
6	11900	6900	8080	5990	8390	14900	17400	17200	11500	15700	15800	9840
7	9510	6610	4620	5650	6010	9780	17100	9610	13400	16600	16600	8660
8	8830	7090	7150	5120	2820	12700	16600	2090	13300	15000	13900	8960
9	9270	6780	6780	4560	3960	13600	18700	8770	12900	14300	16500	9170
10	6650	7100	6930	4940	3620	13000	16700	17000	13200	16200	16600	3760
11	6330	7340	7040	4250	3380	12900	11300	18300	13500	13200	16500	2150
12	6290	4920	7260	4890	2150	13200	14200	14500	14900	16200	15400	2530
13	7520	5780	7590	4430	2130	14200	16700	10200	11800	15100	16500	4960
14	8170	5780	5580	4410	2130	10300	7180	12900	12900	13600	16500	5360
15	7810	7280	8400	5520	2130	15700	5230	11900	12800	13700	13600	6920
16	7860	4310	7880	7030	2130	16100	2220	11000	15100	13700	14600	6900
17	8950	7370	8150	8440	2150	15600	4840	15600	15400	15200	15700	8890
18	8920	8950	8930	4870	2160	15000	4850	18200	14500	12400	15700	9780
19	7390	8630	8510	9770	2140	18700	14700	13400	14100	15200	15600	8390
20	9440	7540	7590	9810	6160	18300	18700	13400	11500	15400	15800	10500
21	9650	7810	5040	7060	8740	12000	18500	13000	13600	14200	15800	10500
22	8750	7590	4440	7270	6060	10400	19600	16000	14500	15400	12300	10700
23	8580	4830	5740	7460	10600	19600	19500	2490	15500	15200	15300	6000
24	10900	5050	6250	8700	13100	19500	19300	15900	13800	13900	15300	4300
25	10900	4730	5880	5010	17200	13000	13800	17200	14300	11000	15300	2750
26	9800	5370	7740	8790	17000	20300	19400	14300	14400	14200	15500	4690
27	6900	6220	8870	9590	13800	19800	19800	10100	12600	12000	15400	5190
28	6370	5710	5060	10100	14900	14300	19600	12700	15000	11900	16200	5320
29	6400	5300	6090	9960	11900	20000	20000	14000	15500	14500	12400	5370
30	7490	6000	6140	9240	---	20000	18700	12100	16600	15600	15600	4290
31	6950	---	7020	9100	---	19700	---	15000	---	15100	15100	---
TOTAL	267930	197700	211920	213500	215130	480780	456220	418560	408800	447700	473400	229180
MEAN	8643	6590	6836	6887	7418	15510	15210	13500	13630	14440	15270	7639
MAX	11900	8830	8930	10100	17200	20300	20000	18300	16600	17500	16600	14700
MIN	6290	4310	4440	4250	2130	9780	2220	2090	11500	11000	12200	2150
AC-FT	531400	392100	420300	423500	426700	953600	904900	830200	810900	888000	939000	454600
CAL YR 1975	TOTAL	4154270	MEAN	11380	MAX	20700	MIN	2790	AC-FT	8240000		
WTR YR 1976	TOTAL	4020820	MEAN	10990	MAX	20300	MIN	2090	AC-FT	7975000		

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

LOCATION.--Lat 35°11'30", long 114°34'17", in SE4NE4 sec.1, T.32 S., R.66 E., Mount Diablo meridian, in Nevada, Clark County, at gaging station on right bank 0.5 mi (0.8 km) downstream from Davis Dam, 29 mi (47 km) west of Kingman, Ariz., and 68 mi (109 km) downstream from Hoover Dam.

DRAINAGE AREA (REVISED)--173,300 mi² (448,800 km²), approximately, including 3,959 mi² (10,254 km²) in Great Divide basin in southern Wyoming which is noncontributing (previously considered part of the Missouri River basin).

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA, MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DIS-SOLVED POTASSIUM (K) (MG/L)
OCT												
01...	0700	8760	1070	7.6	11.0	340	210	87	29	99	2.3	5.0
NOV												
03...	1210	8785	1090	7.9	17.0	310	190	80	27	100	2.5	5.0
DEC												
01...	1330	8700	1100	8.1	12.5	320	200	82	29	110	2.7	5.2
JAN												
02...	1445	4920	1100	8.2	10.5	330	200	86	28	100	2.4	5.1
FEB												
02...	1215	14010	1110	8.3	11.0	320	190	83	27	100	2.4	5.1
MAR												
01...	1100	19160	1100	8.3	12.0	330	190	84	28	97	2.3	4.4
APR												
01...	1035	24600	1090	8.2	14.5	330	200	84	30	100	2.4	5.0
MAY												
03...	1130	19460	1090	8.2	15.5	320	190	82	29	100	2.4	5.4
JUN												
01...	1330	17700	1090	8.0	18.0	330	200	81	30	100	2.4	4.9
JUL												
01...	0630	4940	1080	7.9	19.0	350	220	90	30	100	2.3	4.9
AUG												
02...	0850	17430	1070	7.7	18.0	350	230	91	30	99	2.3	5.1
SEP												
01...	0830	19300	1080	8.0	20.0	320	210	82	29	100	2.4	5.0

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
OCT												
01...	158	0	290	86	.2	7.9	715	683	.97	.27	140	0
NOV												
03...	150	0	280	85	.3	7.8	716	660	.97	.14	130	40
DEC												
01...	152	0	290	86	.4	8.3	724	687	.98	.19	--	10
JAN												
02...	159	0	300	83	.3	7.8	718	691	.98	.46	130	0
FEB												
02...	162	0	290	86	.3	7.6	722	680	.98	.27	120	10
MAR												
01...	163	0	290	87	.5	8.3	719	681	.98	.33	130	10
APR												
01...	165	0	280	87	.3	7.8	717	677	.98	.25	100	0
MAY												
03...	168	0	290	86	.3	5.3	710	683	.97	.24	--	10
JUN												
01...	156	0	290	88	.4	7.1	694	680	.94	.26	130	20
JUL												
01...	162	0	300	88	.4	8.7	710	704	.97	.54	120	0
AUG												
02...	152	0	300	88	.3	8.4	709	698	.96	.20	130	0
SEP												
01...	142	0	310	88	.3	8.4	710	694	.97	.22	130	10

COLORADO RIVER MAIN STEM

09423500. COLORADO RIVER AT NEEDLES, CALIF.

LOCATION.--Lat 34°51'06", long 114°36'33", in SE $\frac{1}{4}$ sec.19, T.9 N., R.23 E., San Bernardino meridian, San Bernardino County, on right bank at Needles, 15 mi (24 km) upstream from gaging station near Topock, Ariz., 30 mi (48 km) downstream from Davis Dam, and 97 mi (156 km) downstream from Hoover Dam.

DRAINAGE AREA (REVISED).--174,500 mi² (452,000 km²), approximately, including 3,959 mi² (10,254 km²) in Great Divide basin in southern Wyoming, which is noncontributing (previously considered part of the Missouri River basin).

PERIOD OF RECORD.--April 1931 to current year (elevations only).

GAGE.--Water-stage recorder. Datum of gage is 400.00 ft (121.920 m) above mean sea level. Prior to May 15, 1942, at site 550 ft (170 m) downstream and May 15, 1942, to Feb. 16, 1969, at site 200 ft (60 m) upstream; at datum 66.23 ft (20.187 m) higher prior to Jan. 12, 1952, and at present datum thereafter.

EXTREMES.--Current year: Maximum elevation, 475.12 ft (144.817 m) Sept. 1; minimum, 458.69 ft (139.809 m) Feb. 19.
Period of record: Maximum elevation, 475.77 ft (145.015 m) Nov. 30, 1944; minimum, 457.84 ft (139.550 m) Feb. 26, 1973.

REMARKS.--Flow regulated by Lake Mead since Feb. 1, 1935, and by Lake Mohave since Jan. 17, 1950.

REVISIONS (WATER YEARS).--WSP 1119: 1931-47.

MEAN ELEVATION, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64.21	61.44	61.58	62.34	62.38	64.93	68.08	67.63	65.24	65.86	65.23	70.65
2	63.76	61.16	61.53	62.13	62.34	65.63	67.28	65.79	64.90	65.27	64.86	65.53
3	63.98	62.37	61.44	61.83	64.69	66.51	67.06	66.14	64.28	66.44	65.14	65.28
4	64.20	63.35	61.93	61.64	64.26	66.45	65.96	66.40	65.22	65.04	65.98	64.99
5	63.57	62.82	62.31	60.56	63.75	66.66	65.41	67.11	65.11	66.84	66.47	64.62
6	63.42	62.09	62.63	61.06	63.69	65.96	67.08	67.14	64.61	66.05	66.43	64.17
7	63.89	61.95	61.88	61.46	62.45	65.05	66.80	66.12	65.08	66.84	66.82	63.11
8	63.40	62.02	61.14	61.01	60.80	64.14	67.36	60.83	65.12	66.14	65.66	62.94
9	63.38	62.12	61.63	60.82	59.72	65.14	67.26	60.46	65.19	65.69	66.65	63.31
10	62.70	61.85	62.16	60.48	60.25	65.26	67.06	65.08	65.28	66.28	66.89	63.07
11	61.70	62.00	62.48	60.63	59.83	64.93	65.70	67.09	65.40	65.40	66.71	60.38
12	61.59	62.27	61.70	60.30	59.43	65.17	64.78	66.57	65.65	66.20	66.37	59.26
13	62.14	60.80	61.98	60.81	59.03	65.10	66.35	65.16	65.40	66.07	66.74	59.89
14	62.69	61.70	62.07	60.36	59.01	64.86	64.96	64.08	64.81	65.49	66.81	60.85
15	62.53	61.77	61.65	60.45	59.01	65.00	61.52	65.02	65.20	65.41	65.76	60.71
16	62.52	61.68	62.81	61.56	59.01	66.68	60.20	64.19	65.80	65.13	65.66	61.99
17	62.63	60.87	62.51	61.97	59.01	66.42	59.86	64.85	66.24	65.90	66.13	62.69
18	63.02	62.33	62.81	62.05	59.00	66.06	60.69	66.97	66.24	65.26	66.17	63.34
19	62.68	62.94	63.51	61.67	58.93	67.11	62.70	65.73	65.77	65.57	66.48	63.26
20	62.86	62.74	62.48	63.78	58.91	67.42	66.36	65.44	64.83	66.16	66.52	63.01
21	63.40	62.39	61.86	62.97	62.55	66.10	67.79	64.98	65.25	65.57	66.57	64.07
22	63.31	62.55	61.04	61.77	62.27	63.24	67.86	65.70	65.65	66.36	65.70	64.23
23	63.02	61.86	60.76	62.20	62.38	67.48	67.84	63.60	66.04	66.20	65.68	64.03
24	63.69	60.74	61.36	62.58	64.29	67.86	67.90	62.25	65.96	65.73	66.26	60.26
25	64.12	60.94	61.55	62.15	66.72	64.86	66.29	66.39	65.64	65.16	66.26	61.15
26	64.12	60.67	61.50	61.55	67.20	66.84	67.22	66.16	65.76	65.05	66.25	59.51
27	62.47	61.08	62.64	63.09	65.72	68.44	68.02	65.12	65.38	64.97	66.39	61.24
28	61.93	61.14	62.41	63.58	66.20	66.21	68.05	63.61	65.34	64.33	66.75	60.90
29	61.76	61.34	60.95	63.86	65.50	67.50	68.17	65.48	65.72	65.16	65.46	61.08
30	62.04	60.93	61.76	63.19	---	68.29	67.75	64.66	66.52	66.29	65.97	61.11
31	62.41	---	61.49	63.22	---	68.21	---	65.14	---	65.94	66.26	---
MEAN	63.00	61.80	61.92	61.84	62.01	66.11	65.98	65.19	65.42	65.74	66.16	62.69
MAX	64.21	63.35	63.51	63.86	67.20	68.44	68.17	67.63	66.52	66.84	66.89	70.65
MIN	61.59	60.67	60.76	60.30	58.91	63.24	59.86	60.46	64.28	64.33	64.86	59.26

WTR YR 1976 MEAN 64.00 MAX 70.65 MIN 58.91

NOTE.--Add 400.00 ft to obtain elevation above mean sea level.

09424000. COLORADO RIVER NEAR TOPOCK, ARIZ.

LOCATION.--Lat 34°41'15", long 114°27'43", in SW¼NW¼ sec.13, T.15 N., R.21 W., Gila and Salt River meridian, Mohave County, on left bank in Mohave Canyon, 2.4 mi (3.9 km) southeast of Topock, 39 mi (63 km) upstream from Parker Dam, and 45 mi (72 km) downstream from Davis Dam.

DRAINAGE AREA (REVISED)--176,300 mi² (456,600 km²), approximately, including 3,959 mi² (10,254 km²) in Great Divide basin in southern Wyoming, which is noncontributing (previously considered part of the Missouri River basin).

PERIOD OF RECORD.--January 1917 to current year. Daily mean elevations published since October 1938.

GAGE.--Water-stage recorder. Datum of gage is 423.02 ft (128.936 m) above mean sea level; gage readings have been reduced to elevations above mean sea level. Prior to Dec. 3, 1922, at site about 1 mi (2 km) upstream at different datum.

AVERAGE DISCHARGE.--17 years (1917-34), 20,260 ft³/s (573.8 m³/s), 14,670,000 acre-ft/yr (18,100 hm³/yr); 42 years (1934-76), 12,860 ft³/s (364.2 m³/s), 9,317,000 acre-ft/yr (11,500 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 19,900 ft³/s (564 m³/s) Mar. 31, Apr. 30 (elevation, 455.80 ft or 138.928 m, Mar. 31); minimum daily, 1,950 ft³/s (55.2 m³/s) Feb. 20; minimum elevation, 448.06 ft (136.569 m), Feb. 20.

1917-34: Maximum discharge probably exceeded 200,000 ft³/s (5,660 m³/s) June 22, 1921; minimum, 1,480 ft³/s (41.9 m³/s) Aug. 17, 1934.

1934-76: Maximum discharge, 35,700 ft³/s (1,010 m³/s) Jan. 29, 1942; maximum elevation, 457.37 ft (139.406 m) July 9, 1959; minimum discharge, 375 ft³/s (10.6 m³/s) Feb. 14, 1935; minimum daily, 422 ft³/s (12.0 m³/s) Feb. 14, 1935.

Discharge of about 300,000 ft³/s (8,500 m³/s), based on determination at Lees Ferry gaging station, occurred about July 10, 1884. Discharge estimated to be in excess of 400,000 ft³/s (11,300 m³/s) probably occurred within the period 1857-68 and most likely in 1862.

REMARKS.--Records good above 10,000 ft³/s (280 m³/s), and fair below. Many diversions above station for irrigation, municipal, and industrial uses. Flow regulated by Lake Mead since Feb. 1, 1935, and by Lake Mohave since Jan. 17, 1950.

REVISIONS (WATER YEARS)--WSP 918: 1921. WSP 1313: 1918-19(M).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10800	6530	5460	6680	8260	11200	18500	17500	13500	14700	13600	14100
2	10500	5270	5840	6800	5580	12600	17300	15900	12500	12800	12300	13500
3	10100	6380	5780	6580	10000	13800	16400	14000	11900	13800	14000	12400
4	10700	8450	5940	6070	11600	14900	15700	14600	12900	13800	14400	12500
5	10600	8080	6950	4990	9340	14800	12100	16100	12900	13500	14800	11600
6	8650	7450	6950	4680	10500	14000	15600	16800	12700	14500	14800	10800
7	11000	6740	7030	5450	8240	13400	15800	15700	12200	14900	15200	9740
8	9530	6600	4750	5180	5850	9910	16300	9250	12800	14800	14400	8930
9	9350	6750	6190	4760	3750	11500	15900	3860	12900	14000	14100	9300
10	8830	6630	6320	4290	4180	12400	16800	9680	12900	14000	15500	9860
11	7120	6650	6960	4340	3700	11800	15400	15500	13100	14000	15300	5680
12	6410	6880	6350	3870	3430	11900	11900	16100	13300	13500	14900	2900
13	6670	5280	6590	4410	2790	12300	13800	13800	13600	14400	14900	3000
14	7400	5860	6860	3940	2670	12600	14900	10900	11600	13300	15400	4450
15	7510	5800	5570	3820	2510	10600	8820	12700	12200	12800	14500	4360
16	7390	6690	7470	5050	2460	14100	6550	11800	13100	12600	12500	6050
17	7420	4500	7360	6190	2440	14600	3900	11700	14000	13100	14100	6740
18	8230	6540	7480	7180	2410	14000	4830	15200	14200	13300	14100	8070
19	8130	7670	8520	4890	2320	14400	5000	15800	13800	12200	14600	8650
20	7390	7820	7780	8570	1950	16600	12400	13100	12900	13900	14800	7780
21	8720	7030	6920	8770	5400	16500	16700	12800	12400	13700	14900	9430
22	9000	7230	5110	6560	7380	11100	17100	13400	13200	13600	14500	9690
23	8160	6880	4560	6760	5940	11600	17800	13700	13700	14200	12300	10200
24	8770	4730	5330	6940	9260	16900	17900	5500	14200	13700	14000	6050
25	10000	4710	5860	7670	12700	16600	16600	14200	13400	12900	14200	5550
26	10300	4500	5530	5120	15100	13400	14200	15600	13800	11300	14200	2800
27	8530	5160	7060	7770	14100	18200	17500	13500	13700	12700	14400	4780
28	6970	5650	7690	8780	13400	16900	18200	10700	12900	11300	14900	4760
29	6450	5490	5030	9450	13400	14500	18400	12600	13700	11800	14300	5020
30	6390	4980	5840	8890	---	18000	18200	12700	14600	14200	12500	5170
31	7230	---	5670	8480	---	18600	---	12200	---	14100	14200	---
TOTAL	264250	188930	196750	192930	200660	433710	430500	406890	394600	417400	442600	233860
MEAN	8524	6298	6347	6224	6919	13990	14350	13130	13150	13460	14280	7795
MAX	11000	8450	8520	9450	15100	18600	18500	17500	14600	14900	15500	14100
MIN	6390	4500	4560	3820	1950	9910	3900	3860	11600	11300	12300	2800
AC-FT	524100	374700	390300	382700	398000	860300	853900	807100	782700	827900	877900	463900
CAL YR 1975	TOTAL	3957650	MEAN	10840	MAX	19500	MIN	3090	AC-FT	7850000		
WTR YR 1976	TOTAL	3803080	MEAN	10390	MAX	18600	MIN	1950	AC-FT	7543000		

COLORADO RIVER MAIN STEM

09424000. COLORADO RIVER NEAR TOPOCK, ARIZ.--CONTINUED

MEAN ELEVATION, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52.70	50.92	50.38	51.00	51.70	52.86	55.34	54.98	54.03	54.33	53.54	53.72
2	52.60	50.28	50.58	51.05	50.43	53.35	54.95	54.46	53.67	53.69	53.08	53.50
3	52.47	50.85	50.54	50.95	52.43	53.75	54.64	53.84	53.47	54.02	53.68	53.11
4	52.69	51.80	50.63	50.70	53.00	54.13	54.38	54.05	53.82	54.00	53.82	53.16
5	52.62	51.64	51.13	50.13	52.16	54.12	53.13	54.52	53.82	53.89	53.97	52.83
6	51.89	51.36	51.13	49.96	52.59	53.82	54.35	54.74	53.76	54.21	53.97	52.52
7	52.78	51.02	51.16	50.38	51.70	53.59	54.42	54.48	53.59	54.38	54.12	52.12
8	52.23	50.96	50.00	50.24	50.58	52.34	54.60	52.49	53.83	54.31	53.81	51.81
9	52.17	51.03	50.75	50.01	49.44	52.94	54.46	50.76	53.86	54.00	53.72	51.96
10	51.94	50.97	50.82	49.76	49.70	53.26	54.75	52.44	53.88	54.00	54.23	52.19
11	51.21	50.98	51.13	49.78	49.42	53.05	54.24	54.33	53.94	53.98	54.16	50.85
12	50.86	51.08	50.84	49.52	49.25	53.06	53.00	54.53	54.02	53.80	54.01	49.73
13	50.99	50.29	50.96	49.82	48.83	53.20	53.71	53.87	54.13	54.11	54.02	49.61
14	51.34	50.58	51.07	49.56	48.74	53.32	54.08	52.99	53.43	53.69	54.19	50.10
15	51.40	50.56	50.44	49.49	48.63	52.61	51.85	53.55	53.66	53.49	53.86	50.05
16	51.34	51.00	51.37	50.17	48.59	53.85	50.88	53.19	53.98	53.41	53.14	50.82
17	51.35	49.87	51.32	50.76	48.57	54.05	50.04	53.10	54.30	53.59	53.74	51.12
18	51.70	50.92	51.37	51.22	48.55	53.84	50.30	54.22	54.36	53.65	53.72	51.68
19	51.65	51.45	51.83	50.08	48.48	53.98	50.36	54.42	54.19	53.22	53.89	51.91
20	51.33	51.52	51.51	51.85	48.19	54.72	53.35	53.65	53.87	53.81	53.96	51.55
21	51.90	51.16	51.11	51.92	50.28	54.68	54.70	53.57	53.71	53.71	54.00	52.23
22	52.02	51.26	50.20	50.94	51.33	52.76	54.82	53.69	53.95	53.67	53.86	52.34
23	51.67	51.09	49.90	51.04	50.63	52.92	55.05	53.79	54.14	53.86	53.09	52.54
24	51.94	50.00	50.31	51.13	52.13	54.82	55.10	51.09	54.26	53.70	53.69	50.69
25	52.43	49.98	50.59	51.45	53.39	54.70	54.65	53.92	53.98	53.38	53.76	50.57
26	52.55	49.87	50.42	50.20	54.26	53.62	53.85	54.38	54.11	52.77	53.77	49.48
27	51.82	50.22	51.18	51.50	53.89	55.25	54.96	53.84	54.06	53.28	53.85	50.27
28	51.14	50.48	51.45	51.94	53.67	54.81	55.18	52.98	53.75	52.74	54.00	50.26
29	50.88	50.40	50.16	52.21	53.67	54.00	55.26	53.69	54.03	52.91	53.77	50.35
30	50.86	50.13	50.58	51.98	---	55.19	55.20	53.75	54.33	53.77	53.16	50.42
31	51.26	---	50.49	51.81	---	55.37	---	53.57	---	53.74	53.77	---
MEAN	51.80	50.79	50.82	50.73	50.84	53.81	53.85	53.64	53.93	53.71	53.79	51.45
MAX	52.78	51.80	51.83	52.21	54.26	55.37	55.34	54.98	54.36	54.38	54.23	53.72
MIN	50.86	49.87	49.90	49.49	48.19	52.34	50.04	50.76	53.43	52.74	53.08	49.48

CAL YR 1975 MEAN 52.75 MAX 55.74 MIN 49.08
WTR YR 1976 MEAN 52.44 MAX 55.37 MIN 48.19

NOTE.--Add 400.00 ft to obtain elevation above mean sea level.

DIVERSIONS FROM LAKE HAVASU

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

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

PERIOD OF RECORD.--January 1939 to current year (monthly diversions only since October 1942). Published as a supplement to records for Colorado River below Parker Dam, 1942-50. Percolation return flow (monthly flow only) October 1964 to September 1973 (discontinued); prior to October 1964 miscellaneous measurements only.

GAGE.--Venturi meters in pressure lines at intake pumping plant.

AVERAGE DISCHARGE.--37 years, 865 ft³/s (24.50 m³/s), 626,700 acre-ft/yr (773 hm³/yr).

EXTREMES.--Period of record: Maximum daily diversion, 3,986 acre-ft (4.91 hm³), 2,010 ft³/s (56.9 m³/s) Oct. 25, 1970; no diversion at times.

REMARKS.--Pumping began Jan. 7, 1939. Figures of monthly diversion shown represent water pumped from Lake Havasu less return surface flow from Gene and Copper Basin Reservoirs. No water returned as surface flow from these reservoirs this year. Percolation return flow from Gene and Copper Basin Reservoirs is estimated as 14 acre-ft/day (17,300 m³/day) or 5,110 acre-ft (6.30 hm³) for the year for accounting purposes.

COOPERATION.--Diversion records furnished by Metropolitan Water District of Southern California.

MONTHLY DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Month	Diversion			
	Maximum	Minimum	Mean	Total
October	2,339	1,350	2,207	68,411
November	1,538	1,254	1,379	41,371
December	1,583	1,338	1,377	42,673
CAL YR 1975	3,348	0	2,155	786,757
January	2,433	558	1,574	48,788
February	3,045	0	1,830	53,077
March	2,341	2,116	2,204	68,320
April	2,704	2,103	2,309	69,264
May	2,758	2,148	2,511	77,836
June	2,726	2,565	2,662	79,845
July	3,212	2,825	3,061	94,878
August	3,294	2,949	3,061	94,895
September	2,693	2,143	2,422	72,675
WTR YR 1976	3,294	0	2,219	812,033

COLORADO RIVER MAIN STEM

09424150 COLORADO RIVER AQUEDUCT NEAR PARKER DAM, ARIZ.-CA--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Records of discharge were furnished by Metropolitan Water District of Southern California.

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)
OCT										
05...	--	1124	1060	8.7	--	1	313	200	76	30
NOV										
02...	1450	--	1070	--	--	1	331	210	83	30
DEC										
01...	--	689	1070	--	13.5	--	333	210	83	30
JAN										
12...	1220	--	1080	--	10.0	1	334	210	85	30
FEB										
09...	--	1089	1100	--	--	1	339	210	83	32
MAR										
08...	1435	--	1080	--	15.5	3	336	210	86	30
APR										
04...	1435	--	1090	--	16.5	4	336	210	85	30
MAY										
02...	--	1311	1180	--	21.0	2	331	200	84	30
JUN										
14...	1445	--	1090	--	23.5	1	335	210	84	30
30...	1445	--	1090	--	23.5	1	335	210	84	30
AUG										
08...	--	1533	1050	--	26.5	<1	317	210	75	32
SEP										
14...	--	1306	1060	--	25.5	2	318	210	77	30

DATE	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
OCT									
05...	111	43	2.7	5.0	134	4	117	.5	305
NOV									
02...	103	40	2.5	5.0	148	0	121	--	296
DEC									
01...	104	40	2.5	5.0	149	0	122	--	302
JAN									
12...	106	40	2.5	5.0	151	0	124	--	304
FEB									
09...	109	41	2.6	4.0	155	1	129	--	309
MAR									
08...	104	40	2.5	4.7	159	0	130	--	298
APR									
04...	107	41	2.5	5.0	155	2	130	--	309
MAY									
02...	107	41	2.6	4.8	157	0	129	--	298
JUN									
14...	106	40	2.5	5.0	159	0	130	--	297
30...	106	40	2.5	5.0	159	0	130	--	297
AUG									
08...	107	42	2.6	5.0	133	1	111	--	300
SEP									
14...	101	41	2.5	5.0	137	0	112	--	292

09424150 COLORADO RIVER AQUEDUCT NEAR PARKER DAM, ARIZ.-CA--Continued

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SI02) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILTERABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT 05...	89	.4	6.6	694	--	.94	2110	3	.00
NOV 02...	90	.2	7.6	689	--	.94	--	2	.09
DEC 01...	91	.5	7.4	698	--	.95	1300	4	.04
JAN 12...	92	.5	9.2	707	--	.96	--	--	.11
FEB 09...	91	.4	8.7	716	--	.97	2110	--	.07
MAR 08...	89	.4	9.4	--	700	.95	--	--	.16
APR 04...	90	.4	5.7	712	--	.97	--	--	.18
MAY 02...	89	.3	4.4	696	--	.95	2460	--	.09
JUN 14...	90	.4	6.6	700	--	.95	--	--	.18
JUN 30...	90	.4	6.6	700	697	.95	--	--	.18
AUG 08...	90	.3	8.0	684	--	.93	2830	--	.00
SEP 14...	90	.3	8.7	673	--	.92	2370	3	.02

COLORADO RIVER MAIN STEM

09424190 COLORADO RIVER AQUEDUCT NEAR SAN JACINTO, CA
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

LOCATION.--Lat 33°49'18", long 116°58'01", in NE¼ sec.15, T.4 S., R.1 W., San Bernardino County, at west portal of San Jacinto Tunnel, 1.7 mi (2.8 km) southeast of Gilman Hot Springs, and 2.5 mi (40 km) north of San Jacinto.

PERIOD OF RECORD.--Water year 1975 to current year.

CHEMICAL ANALYSES: Water year 1975 to current year.

SEDIMENT RECORDS: Water year 1975 to current year (partial-record station).

REMARKS.--Discharge values were furnished by Metropolitan Water District from the aqueduct records.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT				
01...	1000	1120	1090	25.0
03...	0650	1120	1050	24.4
06...	0700	1120	1090	24.0
07...	0650	1120	1090	23.5
08...	1330	1120	1090	23.5
09...	0645	1120	1040	21.5
13...	0700	1120	1090	21.5
14...	0700	1120	1090	20.6
15...	0610	1120	1090	22.0
16...	0650	1120	1090	20.5
20...	0710	1120	1090	20.5
21...	0645	1120	1080	21.0
22...	0645	1080	1090	21.0
23...	0650	1080	1090	20.5
27...	1700	1120	1090	19.5
28...	0645	1120	1090	19.0
29...	0645	1120	1090	19.0
30...	0945	1120	1090	20.0
30...	1030	1120	1110	19.5
NOV				
02...	1730	860	1110	19.5
03...	0730	680	1100	18.0
04...	0645	680	1110	18.5
05...	0645	680	1080	18.5
10...	0650	680	1100	18.0
11...	0650	680	1070	18.0
12...	0705	680	1100	18.0
13...	0650	680	1110	16.5
17...	1600	680	1100	17.0
18...	0930	680	1100	16.0
19...	0930	680	1100	17.0
19...	1130	680	1100	17.0
21...	0650	680	1100	15.5
24...	0700	680	1100	14.5
25...	0700	680	1090	14.0
25...	1015	680	1150	15.2
25...	1520	680	1150	15.2
26...	1000	680	1110	16.0
DEC				
01...	0650	680	1110	12.0
02...	0650	680	1110	12.0
03...	0645	680	1110	12.0
04...	0650	680	1100	12.0
08...	0700	680	1100	13.5
09...	0645	680	1100	13.5
10...	0645	680	1100	13.5
11...	0650	680	1100	13.5
15...	1205	680	1100	13.0
16...	0845	680	1100	12.0
17...	1100	680	1110	11.5
18...	1120	680	1100	11.5
22...	1330	680	1110	14.0
23...	0845	680	1100	13.0
23...	1610	1345	1110	13.3
24...	1115	680	1100	12.0
29...	1100	680	1100	13.5
29...	1115	680	1120	13.7
30...	0645	680	1110	11.0
31...	0650	680	1110	11.0

COLORADO RIVER MAIN STEM

09424190 COLORADO RIVER AQUEDUCT NEAR SAN JACINTO, CA--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
JAN				
05...	1650	680	1110	11.0
06...	0700	680	1100	10.0
07...	0700	680	1120	10.0
08...	0645	680	1110	10.5
12...	0710	680	1110	10.0
13...	0830	680	1110	10.0
14...	1540	680	1110	11.0
15...	1500	680	1110	11.0
19...	0700	680	1110	10.5
20...	0940	680	1110	13.0
21...	1230	680	1110	13.0
23...	0730	680	1110	12.0
26...	1100	680	1100	13.0
27...	0900	870	1110	13.0
28...	0830	870	1120	12.0
29...	1100	1110	1120	13.0
30...	1100	1120	1130	13.8
30...	1115	1120	1100	14.0
FEB				
02...	0900	1120	1113	13.0
03...	0900	1120	1107	13.0
04...	1850	1110	1109	12.0
05...	1850	1110	1116	12.0
09...	0700	1110	1110	13.0
10...	0700	1110	1086	13.0
11...	0700	1110	1078	13.0
12...	0700	1120	1090	13.0
24...	1115	1349	1108	14.0
25...	1340	1340	1116	12.0
26...	0700	1340	1113	14.0
27...	0700	1340	1100	14.0
27...	1045	1340	1100	15.2
MAR				
01...	1600	1330	1149	14.0
02...	0700	1340	1073	14.0
03...	0645	1110	1088	14.0
04...	1530	1110	1104	14.0
08...	1600	1110	1138	15.0
09...	0645	1110	1102	14.0
10...	0650	1110	1110	14.0
11...	0700	1110	1042	14.0
15...	0700	1110	1086	14.0
16...	0650	1110	1077	14.0
17...	0645	1110	1048	14.0
18...	0650	1110	1132	14.0
22...	0655	1110	1091	14.0
23...	0700	1110	1081	14.0
24...	0645	1110	1087	16.0
24...	1040	1110	1140	17.5
25...	0650	1110	1098	16.0
29...	0700	1110	1090	15.0
30...	0650	1110	1078	16.0
31...	0650	1107	1091	16.0
APR				
01...	0645	1107	1089	16.0
05...	0700	1105	1090	16.0
06...	0645	1105	1066	16.0
07...	0650	1105	1069	16.0
08...	0650	1105	1086	17.0
12...	0700	1115	1090	17.0
13...	0650	1105	1088	18.0
14...	0700	1105	1092	16.0
19...	0700	1105	1088	17.0
20...	0645	1105	1088	18.0
21...	0645	1105	1078	18.0
22...	0650	1105	1055	18.0
26...	0700	1335	1087	19.0
27...	0645	1320	1094	19.0
29...	0700	1318	1085	19.0
30...	1000	1320	1110	21.5

COLORADO RIVER MAIN STEM

09424190 COLORADO RIVER AQUEDUCT NEAR SAN JACINTO, CA--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANFOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
MAY				
03...	0700	1320	1102	21.0
04...	0645	1320	1095	21.0
05...	0700	1320	1099	21.0
06...	0640	1320	1083	20.0
10...	0700	1320	1098	21.0
11...	0650	1320	1086	21.0
12...	0645	1320	1098	22.0
13...	0650	1320	1088	22.0
17...	0700	1320	1083	23.0
18...	0650	1320	1084	23.0
20...	0650	1320	1085	23.0
21...	1000	1320	1097	23.0
24...	0700	1090	1098	23.0
25...	0700	1090	1080	23.0
26...	0650	1090	1088	23.0
27...	0645	1090	1080	23.0
28...	1015	1092	1130	24.0
JUN				
01...	0650	1090	1075	23.0
02...	0645	1090	1066	23.0
03...	0645	1330	1069	23.0
04...	0645	1330	1088	23.0
07...	0645	1330	1069	23.0
08...	0545	1330	1097	23.0
09...	0620	1330	1100	23.0
10...	0645	1330	1067	23.0
14...	0650	1330	1091	24.0
15...	0650	1330	1092	24.0
16...	0705	1330	1092	24.0
18...	0650	1330	1059	24.0
21...	0650	1330	1092	24.0
22...	0650	1330	1088	24.0
23...	0645	1330	1096	24.0
23...	1115	1330	1130	24.5
28...	0700	1330	1096	26.0
29...	0615	1330	1087	26.0
30...	0645	1330	1094	26.0
JUL				
01...	0620	1330	1082	25.5
05...	0500	1510	1085	26.5
06...	0625	1510	1085	26.0
07...	0645	1510	1095	26.0
08...	0645	1510	1097	26.5
12...	0700	1510	1093	26.0
13...	0650	1510	1084	25.0
14...	0645	1510	1080	26.0
15...	0620	1510	1084	26.0
19...	0700	1510	1089	26.0
20...	0645	1510	1080	26.0
20...	1130	1510	1120	27.5
21...	0650	1520	1092	26.1
22...	0650	1520	1102	26.1
26...	0645	1520	1102	26.1
27...	0645	1508	1102	26.7
28...	0645	1510	1102	26.7
29...	0650	1510	1102	26.7
AUG				
02...	0700	1510	1102	26.1
03...	0645	1510	1102	26.1
04...	0650	1510	1102	26.1
05...	0650	1530	1092	26.1
09...	0700	1535	1102	25.0
10...	0700	1560	1102	25.0
11...	0650	1538	1102	25.0
11...	1130	1538	910	26.5
16...	0650	1538	1102	25.0
17...	0650	1541	1102	25.0
18...	0645	1541	1102	25.0
19...	0650	1541	1102	25.0
23...	0650	1520	1102	25.6
24...	0645	1541	1102	25.6
25...	0645	1541	1102	26.1
26...	0650	1541	1102	26.7
30...	1300	1541	1071	26.7
31...	0805	1541	1102	26.1

09424190 COLORADO RIVER AQUEDUCT NEAR SAN JACINTO, CA--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
SFP				
01...	0810	1541	1102	26.1
03...	0805	1349	1102	26.1
07...	0745	1349	1102	26.1
08...	0810	1349	1102	26.1
09...	0755	1349	1102	26.1
09...	1145	1349	970	26.0
10...	0745	1349	1065	26.1
13...	0705	1320	1043	25.0
14...	0650	1354	1066	25.0
15...	0650	1334	1066	25.0
16...	0655	1334	1066	25.0
17...	0720	1137	1060	25.0
20...	0700	1137	1069	25.0
21...	0650	1137	1054	25.0
22...	0645	1123	1066	25.0
23...	0655	1136	1067	25.0
27...	0710	1136	1054	25.0
28...	0650	1136	1046	25.0
29...	1300	1136	1053	25.6
30...	0650	1136	1055	25.0

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	TUR- BID- ITY (JTU)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)
OCT											
30...	1030	1120	8.4	0	0	812	320	190	81	28	110
NOV											
25...	1015	680	8.4	1	0	83	320	200	80	30	110
DEC											
29...	1115	680	8.4	1	0	0	330	200	83	29	110
JAN											
30...	1100	1120	8.5	15	81	0	320	200	82	29	110
FEB											
27...	1045	1340	8.4	2	81	86	330	200	84	29	100
MAR											
24...	1040	1110	8.6	1	0	81	310	180	82	26	100
APR											
30...	1000	1320	8.4	1	0	82	330	190	82	30	110
MAY											
28...	1015	1092	9.1	1	--	--	340	210	85	30	110
JUN											
23...	1115	1330	8.5	2	1	11	340	--	83	31	110
JUL											
20...	1130	1510	8.4	0	0	87	340	210	86	31	110
AUG											
11...	1130	1538	8.4	1	81	84	330	200	84	29	110
SEP											
09...	1145	1349	7.7	1	0	89	310	190	78	29	100

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

COLORADO RIVER MAIN STEM

09424190 COLORADO RIVER AQUEDUCT NEAR SAN JACINTO, CA--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)
OCT											
30...	42	2.7	5.2	133	9	124	1.0	290	92	.3	7.8
NOV											
25...	42	2.7	5.4	147	0	121	.9	300	90	.4	8.3
DEC											
29...	42	2.6	5.7	154	0	126	1.0	290	91	.2	7.8
JAN											
30...	42	2.7	5.0	155	0	127	.8	300	91	.3	7.5
FEB											
27...	39	2.4	4.8	159	0	130	1.0	290	89	.4	7.9
MAR											
24...	41	2.5	5.5	159	0	130	.6	280	89	.3	7.3
APR											
30...	42	2.6	5.2	151	6	130	1.0	300	87	.4	5.2
MAY											
28...	41	2.6	4.9	156	0	128	.2	310	92	.5	5.7
JUN											
23...	41	2.6	4.7	--	--	--	--	300	90	.4	7.6
JUL											
20...	41	2.6	5.2	157	0	129	1.0	290	91	.3	8.0
AUG											
11...	42	2.6	5.0	157	0	129	1.0	300	90	.3	8.7
SEPT											
09...	40	2.5	5.3	147	0	121	4.7	300	89	.3	8.5

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)
OCT										
30...	727	689	.99	2200	.11	.46	.57	2.5	.00	2200
NOV										
25...	724	697	.98	1330	.15	.38	.53	2.3	.00	980
DEC										
29...	727	693	.99	1340	.17	.39	.56	2.5	.01	720
JAN										
30...	730	701	.99	2210	.23	.56	.79	3.5	.00	3200
FEB										
27...	724	683	.98	2620	.16	.40	.56	2.5	.01	250
MAR										
24...	703	668	.96	2110	.18	.21	.39	1.7	.01	520
APR										
30...	726	700	.99	2590	.22	.31	.53	2.3	.00	2300
MAY										
28...	730	715	.99	2150	.13	.51	.64	2.8	.01	3800
JUN										
23...	--	--	--	--	.17	.50	.67	3.0	.01	4200
JUL										
20...	721	699	.98	2940	.18	.24	.42	1.9	.00	2500
AUG										
11...	704	704	.96	2920	.14	.34	.48	2.1	.01	3600
SEP										
09...	701	683	.95	2550	.13	.55	.68	3.0	.00	1900

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

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY....GENUS.....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
OCT 30	1030	CHLOROPHYTA .CHLOROPHYCEAE ..CHLOROCOCCALES ...OOCYSTACEAE....ANKISTRODESMUS # ...SCENEDESMACEAE # ...SCENEDESMUS ..VOLVOCALES ..CHLAMYDOMONADACEAE ...CHLAMYDOMONAS	GREEN ALGAE	840 3H	0 37 2
		CHRYSOPHYTA .BACILLARIOPHYCEAE ..CENTRALES ...COSCINODISCACEAE # ...CYCLOTELLA ..PENNALS # ...ACHNANTHACEAE ...ACHNANTHES ..CYMBELLACEAE ...CYMBELLA ..GOMPHONEMATAACEAE # ...GOMPHONEMA ..NAVICULACEAE # ...NAVICULA # ...NITZSCHIACEAE ...NITZSCHIA	DIATOMS CENTRIC PENNATE NAVICULOID	340 300 150 340 230	15 14 7 15 10
		TOTAL PHYTOPLANKTON		2,200	
NOV 25	1015	CHLOROPHYTA .CHLOROPHYCEAE ..CHLOROCOCCALES ...OOCYSTACEAE ...SELENASTRUM ..SCENEDESMACEAE ...SCENEDESMUS ..VOLVOCALES ..CHLAMYDOMONADACEAE ...CHLAMYDOMONAS	GREEN ALGAE	26 110 53	3 11 5
		CHRYSOPHYTA .BACILLARIOPHYCEAE ..CENTRALES ...COSCINODISCACEAE ...CYCLOTELLA ...MELOSIRA ..PENNALES # ...ACHNANTHACEAE # ...ACHNANTHES # ...CYMBELLACEAE # ...CYMBELLA # ...FRAGILARIACEAE # ...FRAGILARIA # ...NAVICULACEAE # ...NAVICULA	DIATOMS CENTRIC PENNATE NAVICULOID	26 26 240 260 180	3 3 24 27 19
		EUGLENOPHYTA .CRYPTOPHYCEAE ..CRYPTOMONIDALES ...CRYPTOMONODACEAE ...CRYPTOMONAS	EUGLENOIDS CRYPTOMONADS	53	5
		TOTAL PHYTOPLANKTON		980	

See footnotes at end of table.

COLORADO RIVER MAIN STEM

09424190 COLORADO RIVER AQUEDUCT NEAR SAN JACINTO, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM CLASS ORDER FAMILY GENUS SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
DEC 29	1115	CHLOROPHYTA ..CHLOROPHYCEAE ..CHLOROCOCCALES ..OOCYSTACEAE ..OOCYSTIS * ..TETRAEDRON ..SCENEDESMACEAE ..SCENEDESMUS	GREEN ALGAE	83 62	11 0 9
		CHRYSOPHYTA ..BACILLARIOPHYCEAE ..PENNALES ..ACHNANTHACEAE # ..ACHNANTHES # ..CYMBELLACEAE # ..CYMBELLA ..NAVICULACEAE ..NAVICULA ..NITZSCHIAEAE ..NITZSCHIA	DIATOMS PENNATE NAVICULOID	210 230 41 21	29 31 6 3
		CYANOPHYTA ..MYXOPHYCEAE ..CHROOCOCCALES ..CHROOCOCCACEAE ..ANACYSTIS	BLUE-GREEN ALGAE COCCOID	83	11
		TOTAL PHYTOPLANKTON		720	
JAN 30	1100	CHLOROPHYTA ..CHLOROPHYCEAE ..CHLOROCOCCALES ..OOCYSTACEAE ..ANKISTRODESMUS ..SCENEDESMACEAE ..SCENEDESMUS	GREEN ALGAE	56 110	2 3
		CHRYSOPHYTA ..BACILLARIOPHYCEAE ..CENTRALES ..COSCINODISCAEAE ..CYCLOTELLA ..PENNALES # ..ACHNANTHACEAE # ..ACHNANTHES # ..CYMBELLACEAE # ..CYMBELLA # ..FRAGILARIAEAE # ..FRAGILARIA # ..NAVICULACEAE # ..NAVICULA # ..NITZSCHIAEAE # ..NITZSCHIA	DIATOMS CENTRIC PENNATE NAVICULOID	56 1,000 280 56 1,000 670	2 31 9 2 31 21
		TOTAL PHYTOPLANKTON		3,200	

See footnotes at end of table.

09424190 COLORADO RIVER AQUEDUCT NEAR SAN JACINTO, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY....GENUS.....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL		
FEB 27	0000	CHLOROPHYTA	GREEN ALGAE				
		.CHLOROPHYCEAE					
		..CHLOROCOCCALES					
		...OOCYSTACEAE					
		....ANKISTRODESMUS		7	3	
		....SCENEDESMACEAE				
		#SCENEDESMUS		44	18		
		..VOLVOCALES					
		...CHLAMYDOMONADACEAE					
		....CHLAMYDOMONAS		15	6	
		CHRYSOPHYTA					
		.BACILLARIOPHYCEAE	DIATOMS CENTRIC				
		..CENTRALES					
		...COSCINODISCACEAE					
		....CYCLOTELLA		7	3	
		..PENNALES	PENNATE				
		...ACHNANTHACEAE					
		....ACHNANTHES		29	12	
		...CYMBELLACEAE					
		#CYMBELLA		51	21		
		...FRAGILARIACEAE					
		*FRAGILARIA			0		
		...NAVICULACEAE	NAVICULOID				
		....NAVICULA		7	3	
		...NITZSCHIACEAE					
		#NITZSCHIA		87	35		
		TOTAL PHYTOPLANKTON		250			
		MAR 24	1040	CHLOROPHYTA	GREEN ALGAE		
				.CHLOROPHYCEAE			
				..CHLOROCOCCALES			
...OOCYSTACEAE							
....ANKISTRODESMUS				34	7		
....OOCYSTIS				11	2		
....SELENASTRUM				69	13		
...SCENEDESMACEAE							
....CRUCIGENIA				11	2		
....SCENEDESMUS				34	7		
..VOLVOCALES							
...CHLAMYDOMONADACEAE							
....CARTERIA		11	2				
....CHLAMYDOMONAS		69	13				
		CHRYSOPHYTA					
		.BACILLARIOPHYCEAE	DIATOMS CENTRIC				
		..CENTRALES					
		...COSCINODISCACEAE					
		....CYCLOTELLA		23	4	
		..PENNALES	PENNATE				
		...CYMBELLACEAE					
		#CYMBELLA		92	18		
		...NAVICULACEAE	NAVICULOID				
		....NAVICULA		11	2	
...NITZSCHIACEAE							
....DENTICULA		11	2				
....NITZSCHIA		23	4				
		CYANOPHYTA	BLUE-GREEN ALGAE				
		.MYXOPHYCEAE	FILAMENTOUS				
		..OSCILLATORIALES					
		...OSCILLATORIA					
#OSCILLATORIA		110	22				
TOTAL PHYTOPLANKTON		520					

See footnotes at end of table.

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

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY....GENUS.....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
APR 30	1000	CHLOROPHYTA	GREEN ALGAE		
		.CHLOROPHYCEAE			
		..CHLOROCOCCALES			
		...SCENEDESMACEAE		110	5
		....SCENEDESMUS			
		..ZYGNEMATALES			
		...DESMIDIACEAE	PLACODERM DESMIDS	14	1
		....CLOSTERIUM			
		CHRYSTOPHYTA			
		.BACILLARIOPHYCEAE	DIATOMS		
		..PENNALES	PENNATE		
		...ACHNANTHACEAE		28	1
		....ACHNANTHES			
		...CYMBELLACEAE		180	8
....CYMBELLA					
...DIATOMACEAE		56	2		
....DIATOMA					
...FRAGILARIACEAE		600	26		
#FRAGILARIA					
...NAVICULACEAE	NAVICULOID	170	7		
....NAVICULA					
...NITZSCHIACEAE		330	14		
....NITZSCHIA					
.CHRYSTOPHYCEAE	YELLOW-BROWN ALGAE				
..CHRYSOMONADALES					
...OCHROMONADACEAE		400	17		
#DINOBRION					
CYANOPHYTA	BLUE-GREEN ALGAE				
.MYXOPHYCEAE					
..OSCILLATORIALES	FILAMENTOUS				
...OSCILLATORIA		420	18		
#OSCILLATORIA					
TOTAL PHYTOPLANKTON				2,300	
MAY 28	1015	CHLOROPHYTA	GREEN ALGAE		
		.CHLOROPHYCEAE			
		..CHLOROCOCCALES			
		...SCENEDESMACEAE		600	16
		#SCENEDESMUS			
		CHRYSTOPHYTA			
		.BACILLARIOPHYCEAE	DIATOMS		
		..PENNALES	PENNATE		
		...ACHNANTHACEAE		31	1
		....ACHNANTHES			
		...CYMBELLACEAE		220	6
		....CYMBELLA			
		...FRAGILARIACEAE			
		*FRAGILARIA		63	2
...SYNEDRA					
...NAVICULACEAE	NAVICULOID	1,600	41		
#NAVICULA					
...NITZSCHIACEAE		250	7		
....NITZSCHIA					
CYANOPHYTA	BLUE-GREEN ALGAE				
.MYXOPHYCEAE					
..OSCILLATORIALES	FILAMENTOUS				
...OSCILLATORIA		760	20		
#LYNGBYA		310	8		
...OSCILLATORIA					
TOTAL PHYTOPLANKTON				3,800	

See footnotes at end of table.

09424190 COLORADO RIVER AQUEDUCT NEAR SAN JACINTO, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY....GENUS.....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
JUNE 23	1115	CHLOROPHYTA ..CHLOROPHYCEAE ..CHLOROCOCCALES ..COELASTRACEAE ...COELASTRUM ...OOCYSTACEAE ...OOCYSTIS ...SELENASTRUM ...TE TRAE DRON ..SCENEDESMACEAE # ...SCENEDESMUS ..VOLVOCALES ..CHLAMYDOMONADACEAE ...CHLAMYDOMONAS	GREEN ALGAE	410 54 54 27 920 27	10 1 1 1 22 1
		CHRYSOPHYTA ..BACILLARIOPHYCEAE ..CENTRALES ...COSCINODISCAEAE ...CYCLOTELLA ..PENNALES ...ACHNANTHACEAE ...ACHNANTHES ...CYMBELLACEAE ...CYMBELLA ...FRAGILARIACEAE ...SYNEDRA # ...NAVICULACEAE ...NAVICULA ...NITZSCHIACEAE ...NITZSCHIA	DIATOMS CENTRIC PENNATE NAVICULOID	54 81 270 81 1,300 350	1 2 6 2 32 8
		CYANOPHYTA ..MYXOPHYCEAE ..CHROOCOCCALES ...CHROOCOCCACEAE ...ANACYSTIS ..OSCILLATORIALES ...OSCILLATORIAEAE ...OSCILLATORIA	BLUE-GREEN ALGAE COCCOID FILAMENTOUS	270 220	6 5
		EUGLENOPHYTA ..EUGLENOPHYCEAE ..EUGLENALES ...EUGLENACEAE ...TRACHELOMONAS	EUGLENOIDS	54 4,200	1
		TOTAL PHYTOPLANKTON		4,200	

See footnotes at end of table.

COLORADO RIVER MAIN STEM

09424190 COLORADO RIVER AQUEDUCT NEAR SAN JACINTO, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY....GENUS.....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
JULY 20	1130	CHLOROPHYTA .CHLOROPHYCEAE ..CHLOROCOCCALES ...OOCYSTACEAE....ANKISTRODESMUS....TETRAEDRON ...SCENEDESMACEAE....SCENEDESMUS	GREEN ALGAE	340 34 270	14 1 11
		CHRYSOPHYTA .BACILLARIOPHYCEAE ..CENTRALES ...COSKINODISCAEAE....CYCLOTELLA ...PENNALES ...ACHNANTHACEAE....ACHNANTHES ...CYMBELLACEAE....CYMBELLA ...NAVICULACEAE # ...NAVICULA # ...NITZSCHIACEAE # ...NITZSCHIA	DIATOMS CENTRIC PENNATE NAVICULOID	34 68 34 710 710	1 3 1 29 29
		CYANOPHYTA .MYXOPHYCEAE ..CHROOCOCCALES ...CHROOCCACEAE....ANACYSTIS	BLUE-GREEN ALGAE COCCOID	270	11
		TOTAL PHYTOPLANKTON		2,500	
AUG 11	1130	CHLOROPHYTA .CHLOROPHYCEAE ..CHLOROCOCCALES ...SCENEDESMACEAE # ...SCENEDESMUS ..VOLVOCALLES ...CHLAMYDOMONADACEAE * ...CHLAMYDOMONAS ...VOLVOCACEAE * ...PANDORINA	GREEN ALGAE	610	17
		CHRYSOPHYTA .BACILLARIOPHYCEAE ..CENTRALES ...COSKINODISCAEAE * ...CYCLOTELLA ...PENNALES ...ACHNANTHACEAE....ACHNANTHES ...CYMBELLACEAE....CYMBELLA ...FRAGILARIACEAE # ...FRAGILARIA ..NAVICULACEAE ...NAVICULA ...NITZSCHIACEAE * ...DENTICULA # ...NITZSCHIA	DIATOMS CENTRIC PENNATE NAVICULOID	38 380 530 190 720	0 1 11 15 5 0 20
		CYANOPHYTA .MYXOPHYCEAE ..OSCILLATORIALES ...OSCILLATORIAEAE # ...OSCILLATORIA	BLUE-GREEN ALGAE FILAMENTOUS	1,100	31
		PYRRHOPHYTA .DINOPHYCEAE ..PERIDINIALES ...PERIDINIAEAE * ...PERIDINIUM	FIRE ALGAE DINOFLAGELLATES		0
		TOTAL PHYTOPLANKTON		3,600	

See footnotes at end of table.

09424190 COLORADO RIVER AQUEDUCT NEAR SAN JACINTO, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY ...GENUS.....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
SEP 9	1145	CHLOROPHYTA .CHLOROPHYCEAE ..CHLOROCOCCALES ...SCENEDESMACEAE #SCENEDESMUS	GREEN ALGAE	300	15
		CHRYSOPHYTA .BACILLARIOPHYCEAE ..PENNALES ...NITZSCHIAEAE #NITZSCHIA	DIATOMS PENNATE	1,600	85
		TOTAL PHYTOPLANKTON		1,900	

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

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll a (mg/m ²)	Chlorophyll b (mg/m ²)	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight				
Oct. 31	26	7.8	6.2	3.5	0.1	490	Polyethylene strip
Mar. 24	37	16	12	5.9	0.0	620	Polyethylene strip
Aug. 11	29	11	8.8	4.1	0.1	500	Polyethylene strip

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS- PENDE D ARSE NIC (AS) (UG/L)	DIS- SOLVED ARSE NIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	SUS- PENDE D CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	SUS- PENDE D CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL COBAL T (CO) (UG/L)	SUS- PENDE D COBAL T (CO) (UG/L)
OCT 30...	1030	3	0	3	<10	<10	0	0	0	0	<50	<49
JAN 30...	1100	2	0	2	<10	<9	1	0	0	0	<50	<49
APR 30...	1000	3	0	3	<10	<10	0	0	0	0	<50	<50
JUL 20...	1130	1	0	1	<10	<9	1	0	0	0	<50	<50

COLORADO RIVER MAIN STEM

09424190 COLORADO RIVER AQUEDUCT NEAR SAN JACINTO, CA--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUS-PENDED MANGANESE (MN) (UG/L)
OCT 30...	1	0	0	3	30	0	100	98	2	10	10
JAN 30...	1	<10	<5	5	450	20	<100	<96	4	60	60
APR 30...	0	20	6	14	80	20	<100	<96	4	10	10
JUL 20...	0	10	7	3	80	40	<100	<94	6	10	10

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUS-PENDED SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 30...	0	.0	.0	.0	1	0	1	0	0	0	4.6
JAN 30...	0	.0	.0	.0	3	0	3	80	70	10	3.2
APR 30...	0	.0	.0	.0	3	0	3	40	20	20	5.7
JUL 20...	0	.0	.0	.0	3	0	3	20	10	10	3.2

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

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. * FINER THAN .062 MM
OCT 30...	1030	1120	19.5	4	12	45
NOV 25...	1520	680	15.2	2	3.7	--
DEC 29...	1115	680	13.7	1	1.8	--
JAN 30...	1100	1120	13.8	5	15	59
FEB 27...	1045	1340	15.2	3	11	74
MAR 24...	1040	1110	17.5	2	6.0	44
APR 30...	1000	1320	21.5	10	36	20
MAY 28...	1015	1092	24.0	10	29	54
JUN 23...	1115	1330	24.5	12	43	40
JUL 20...	1130	1510	27.5	2	8.2	39
AUG 11...	1130	1538	26.5	6	25	53
SEP 09...	1145	1349	26.0	4	15	44

09427500. LAKE HAVASU NEAR PARKER DAM, ARIZ.-CALIF.

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

DRAINAGE AREA (REVISED)--182,700 mi² (473,200 km²), approximately, including 3,959 mi² (10,254 km²) in Great Divide basin in southern Wyoming, which is noncontributing (previously considered part of the Missouri River basin).

PERIOD OF RECORD.--July 1938 to current year. Published as Parker Reservoir near Parker Dam 1938.

GAGE.--Water-stage recorder. Datum of gage is 400.54 ft (122.085 m) above mean sea level. Gage readings have been reduced to elevations above mean sea level.

EXTREMES.--Current year: Maximum contents, 623,400 acre-ft (769 hm³) May 8 (elevation, 450.74 ft or 137.386 m); minimum, 529,000 acre-ft (652 hm³) Feb. 24 (elevation, 445.78 ft or 135.874 m).

Period of record: Maximum contents, 693,000 acre-ft (854 hm³), by temporary use of flashboards, Apr. 18, 1943, June 4, 1953; maximum elevation, 450.77 ft (137.395 m) June 26, 1958; minimum contents, 71,400 acre-ft (88.0 hm³) June 25, 1942 (elevation, 412.09 ft or 125.605 m).

REMARKS.--Lake is formed by concrete-arch dam; dam was completed and storage began July 1, 1938. Usable capacity—based on April 1957 re-survey by Bureau of Reclamation between elevations 430.54 ft (131.229 m) and 450.54 ft (137.325 m)—619,400 acre-ft (764 hm³) between elevations 400.54 ft (122.085 m), sill of regulating gates, and 450.54 ft (137.325 m), top of regulating gates. Prior to Oct. 1, 1956, different capacity table used. Dead storage, 28,600 acre-ft (35.3 hm³) below elevation 400.54 ft (122.085 m), based on original survey. About 0.07 ft (0.021 m) fall indicated between gage and Parker Dam under normal operating conditions. Drawdown below elevation 440.54 ft (134.277 m) not legally permissible except by consent of the Metropolitan Water District of Southern California or in an emergency affecting the safety of the dam. Lake is used for flood control, power development, re-regulation of river for irrigation demand, and as a basin from which water is pumped by Metropolitan Water District of Southern California to Colorado River aqueduct. Figures given herein represent usable contents. For record of diversion to Colorado River aqueduct, see record for Colorado River aqueduct near Parker Dam elsewhere in this report.

REVISIONS.--WRD Ariz. 1975: 1974 (elevation).

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	575100	558800	554100	545000	546800	536800	567600	598400	616200	606000	569700	562500
2	576800	556400	554400	545600	539100	532600	572600	599400	614800	603000	564600	569000
3	575200	553700	552200	547700	537800	533300	576000	595400	615200	600200	563100	570300
4	573200	555000	550300	549400	544100	539300	576200	595000	613000	599600	564200	569600
5	571400	558400	549900	547400	550300	544700	570100	599600	612400	597000	566500	569200
6	565800	561600	549500	546300	560000	549200	572000	608400	610800	599400	565400	573000
7	568000	560700	551000	548100	563300	552800	575600	620800	607600	601600	563700	574300
8	568600	560000	547200	550600	563800	549000	580400	615600	608000	605000	560300	574100
9	568800	558400	546500	549900	565200	548500	580800	600400	609800	599800	557900	575800
10	567100	558600	546800	549000	568600	551000	582700	595000	611000	593800	557900	586600
11	561800	560000	549200	547200	569600	554100	583200	601800	610200	589700	558600	593800
12	556000	560900	551200	545400	570500	552800	575400	610200	609800	585700	560000	590100
13	550800	560300	551700	545200	566700	550800	583600	613400	610400	585900	558800	582500
14	548100	556500	552100	545400	565600	550300	598800	608800	608600	584800	558800	577000
15	549700	553500	546700	545800	565400	543400	602400	606400	606000	584200	558100	572000
16	550600	551000	545400	543200	566100	542500	597200	601400	606000	579600	554100	572000
17	548100	545600	545400	543200	565600	544300	582500	594600	609400	575100	553500	569700
18	545400	545000	546100	544000	562900	545900	569200	595200	613400	572400	553900	569400
19	542900	545200	548100	539300	559800	545800	555400	603800	613800	567100	555800	568200
20	540700	549000	549900	541800	551700	548600	555200	607400	611400	567300	555600	563300
21	541600	548800	554400	547000	547400	551300	559000	605400	608400	567500	556500	562900
22	546300	549200	560500	548600	544500	545200	564200	604400	606800	568600	557900	563800
23	548500	552100	557700	548100	534200	536900	567600	607400	607400	569700	555000	576200
24	550600	552200	553900	546700	529400	539600	570500	594600	611000	570300	555200	579400
25	554800	552600	552100	546300	530500	545600	574500	601800	610400	568600	556700	587200
26	559400	551200	548100	541100	537700	541100	568600	613000	609400	565900	559400	583800
27	561800	552100	548100	540900	541300	545000	570100	616200	608200	569600	559600	583800
28	560300	553500	550300	542300	541100	547700	576800	610800	603200	569600	560000	583400
29	558600	553900	551300	546300	540900	546100	585300	610200	599400	569700	561100	583800
30	558800	554600	548500	548100	---	550400	592400	611800	599800	570700	558400	584400
31	559200	---	545600	548600	---	558400	---	612000	---	571300	560000	---
MAX	576800	561600	560500	550600	570500	558400	602400	620800	616200	606000	569700	593800
MIN	540700	545000	545400	539300	529400	532600	555200	594600	599400	565900	553500	562500
(‡)	-14200	-4600	-9000	+3000	-7700	+17500	+34000	+19600	-12200	-28500	-11300	+24400

CAL YR 1975 MAX 619200 MIN 528100 ‡ +12,300
WTR YR 1976 MAX 620800 MIN 529400 ‡ +11,000

‡ Change in contents, in acre-feet.

09427500. LAKE HAVASU NEAR PARKER DAM, ARIZ.-CALIF.--CONTINUED

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	448.28	447.42	447.17	446.67	446.77	446.21	447.89	449.49	450.38	449.87	448.00	447.62
2	448.37	447.29	447.19	446.70	446.34	445.98	448.15	449.54	450.31	449.72	447.73	447.96
3	448.29	447.15	447.07	446.82	446.27	446.02	448.33	449.34	450.33	449.58	447.65	448.03
4	448.18	447.22	446.96	446.91	446.62	446.35	448.34	449.32	450.22	449.55	447.71	447.99
5	448.09	447.40	446.94	446.80	446.96	446.65	448.02	449.55	450.19	449.42	447.83	447.97
6	447.79	447.57	446.92	446.74	447.48	446.90	448.12	449.99	450.11	449.54	447.77	448.17
7	447.91	447.52	447.00	446.84	447.66	447.10	448.31	450.61	449.95	449.65	447.68	448.24
8	447.94	447.48	446.79	446.98	447.69	446.89	448.56	450.35	449.97	449.82	447.50	448.23
9	447.95	447.40	446.75	446.94	447.76	446.86	448.58	449.59	450.06	449.56	447.37	448.32
10	447.86	447.41	446.77	446.99	447.94	447.00	448.68	449.32	450.12	449.26	447.37	448.89
11	447.58	447.48	446.90	446.79	447.99	447.17	448.71	449.66	450.08	449.05	447.41	449.26
12	447.27	447.53	447.01	446.69	448.04	447.10	448.30	450.08	450.06	448.84	447.48	449.07
13	446.95	447.50	447.04	446.68	447.84	446.99	448.73	450.24	450.09	448.85	447.42	448.67
14	446.84	447.30	447.06	446.69	447.78	446.96	449.51	450.01	450.00	448.79	447.42	448.38
15	446.93	447.14	446.76	446.71	447.77	446.58	449.69	449.89	449.87	448.76	447.38	448.12
16	446.98	447.00	446.69	446.57	447.81	446.53	449.43	449.64	449.87	448.52	447.17	448.12
17	446.84	446.70	446.69	446.57	447.78	446.63	448.67	449.30	450.04	448.28	447.14	448.00
18	446.69	446.67	446.73	446.61	447.64	446.72	447.97	449.33	450.24	448.14	447.16	447.98
19	446.55	446.68	446.84	446.35	447.47	446.71	447.24	449.76	450.26	447.86	447.26	447.92
20	446.43	446.89	446.94	446.49	447.04	446.87	447.23	449.94	450.14	447.87	447.25	447.66
21	446.48	446.88	447.19	446.78	446.80	447.02	447.43	449.84	449.99	447.88	447.30	447.64
22	446.74	446.90	447.51	446.87	446.64	446.68	447.71	449.79	449.91	447.94	447.37	447.69
23	446.86	447.06	447.36	446.84	446.07	446.22	447.89	449.94	449.94	448.00	447.22	448.34
24	446.98	447.07	447.16	446.76	445.80	446.37	448.04	449.30	450.12	448.03	447.23	448.51
25	447.21	447.09	447.06	446.74	445.86	446.70	448.25	449.66	450.09	447.94	447.31	448.92
26	447.45	447.01	446.84	446.45	446.26	446.45	447.94	450.22	450.04	447.80	447.45	448.74
27	447.58	447.06	446.84	446.44	446.49	446.67	448.02	450.38	449.98	447.99	447.46	448.74
28	447.50	447.14	446.96	446.52	446.45	446.82	448.37	450.11	449.73	447.99	447.48	448.72
29	447.41	447.16	447.02	446.74	446.46	446.73	448.82	450.08	449.54	448.00	447.54	448.74
30	447.42	447.20	446.86	446.84	---	446.97	449.19	450.16	449.56	448.05	447.40	448.77
31	447.44	---	446.70	446.87	---	447.48	---	450.17	---	448.08	447.48	---
MEAN	447.38	447.18	446.96	446.72	447.09	446.72	448.34	449.83	450.04	448.67	447.45	448.31
MAX	448.37	447.57	447.51	446.99	448.04	447.40	449.69	450.61	450.38	449.87	448.00	449.26
MIN	446.43	446.67	446.69	446.35	445.80	445.98	447.23	449.30	449.54	447.80	447.14	447.62

CAL YR 1975 MEAN 448.06 MAX 450.53 MIN 445.73
WTR YR 1976 MEAN 447.89 MAX 450.61 MIN 445.80

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

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

DRAINAGE AREA (REVISED)--182,700 mi² (473,200 km²), approximately, including 3,959 mi² (10,254 km²) in Great Divide basin in southern Wyoming, which is noncontributing (previously considered part of the Missouri River basin).

PERIOD OF RECORD.--February to September 1934 (gage heights and fragmentary discharge records), October 1934 to current year. Prior to October 1937, published as "near Parker, Ariz."

GAGE.--Water-stage recorder. Datum of gage is 300.54 ft (91.605 m) above mean sea level. Prior to Oct. 1, 1967, at site 3.8 mi (6.1 km) downstream at datum 346.23 ft (105.531 m) above mean sea level.

AVERAGE DISCHARGE.--42 years, 12,070 ft³/s (341.8 m³/s), 8,745,000 acre-ft/yr (10,800 hm³/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 19,400 ft³/s (549 m³/s) Aug. 17 (gage height, 72.16 ft or 21.994 m); minimum daily, 1,740 ft³/s (49.3 m³/s) Dec. 22.

Period of record: Maximum discharge, 42,400 ft³/s (1,200 m³/s) Feb. 8, 1937; no flow at Parker Dam for parts of several days in 1942 when gates in dam were closed; minimum daily discharge, 1,220 ft³/s (34.6 m³/s) Jan. 16, 1974.

An unregulated discharge of probably less than 1,350 ft³/s (38.2 m³/s) occurred Aug. 18, 1934 (lowest unregulated discharge since 1917 and probably since a much earlier date).

REMARKS.--Records excellent. Flow regulated by Lake Mead since Feb. 1, 1935, Lake Mohave since Jan. 17, 1950, and by Lake Havasu since July 1, 1938. Many diversions above station. For record of diversion to Colorado River aqueduct and return flows, see record for Colorado River aqueduct near Parker Dam, elsewhere in this report. Records of chemical analyses and water temperatures for the current water year are published on following pages.

REVISIONS (WATER YEARS)--WSP 1313: 1941(M).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9310	5860	4750	6050	8380	12900	13500	13500	10500	11200	13300	11900
2	8840	5850	4800	5880	8750	13500	14400	14600	10700	12800	13400	10100
3	9610	7040	6290	4710	8700	12800	14000	14000	9670	13900	13500	11000
4	10700	7040	6110	4730	7840	11100	14700	13900	11600	13300	13000	11700
5	10400	5920	6590	5220	6160	11900	14600	12800	11400	13200	12800	11800
6	9990	5440	6380	5270	5070	11100	14100	11300	11900	12400	14300	7920
7	9190	6180	5970	4430	5950	11100	13600	8240	11500	12600	15000	7880
8	7990	6380	6090	3390	4710	11100	13400	10700	11500	12100	15300	7820
9	7730	6490	6010	4410	3230	11300	15000	10200	10400	14800	14800	7020
10	8420	5880	5470	4450	1990	10500	15100	10600	10700	15200	14400	3140
11	8510	5390	5020	4890	1940	10000	14700	11100	12100	15300	14400	2030
12	8460	5190	5220	4650	2070	12100	14700	11000	12200	14100	13500	3740
13	7790	4840	5920	4250	3020	12200	9550	10700	12600	13500	14600	5720
14	7560	6580	6070	3530	1960	12500	6910	11400	11700	12900	14300	6490
15	5900	6570	7280	3350	1960	13300	5680	12400	12200	12000	14500	6050
16	6010	6980	7410	5690	1970	13800	6640	12100	11700	14000	13700	5500
17	8060	6810	6790	5860	2490	13300	9670	12900	11800	14100	13600	7350
18	8680	6590	6400	6810	3480	12800	10700	12800	12000	13900	13200	7540
19	8760	6260	6900	7070	3970	14200	11000	10400	12800	13900	13000	8880
20	7660	5410	6290	6790	6090	14200	12100	10000	13000	12900	14100	9630
21	7270	6760	4310	6050	7240	14400	13700	12000	12900	12700	13900	9230
22	6260	6240	1740	5540	8240	14200	14000	11500	12900	12000	13500	8910
23	6000	5050	5140	6610	9460	14300	15400	10900	12200	12900	13200	5050
24	6480	4000	6070	7500	10700	14300	15700	9770	11700	13100	13300	4370
25	6830	3960	6070	7530	10800	14100	15000	9120	12400	12700	12700	2040
26	6810	4090	6550	7120	10900	14800	15200	8950	13000	11200	12200	3570
27	6850	3770	6290	7210	11700	15400	15100	10300	13300	10200	14000	3860
28	6720	4570	6350	7210	12600	15600	13800	11000	13600	10100	13700	3970
29	6340	4460	3950	6830	12400	14400	13000	10800	14100	9940	13600	3920
30	5450	4210	6660	7250	---	14800	13800	10500	13500	12400	13100	3520
31	5670	---	6350	7590	---	14000	---	10200	---	12700	13000	---
TOTAL	240250	169810	181240	177870	183770	406000	388750	349680	361570	398040	424900	201650
MEAN	7750	5660	5846	5738	6337	13100	12960	11280	12050	12840	13710	6722
MAX	10700	7040	7410	7590	12600	15600	15700	14600	14100	15300	15300	11900
MIN	5450	3770	1740	3350	1940	10000	5680	8240	9670	9940	12200	2030
AC-FT	476500	336800	359500	352800	364500	805300	771100	693600	717200	789500	842800	400000
CAL YR 1975	TOTAL	3635120	MEAN	9959	MAX	16300	MIN	1740	AC-FT	7210000		
WTR YR 1976	TOTAL	3483530	MEAN	9518	MAX	15700	MIN	1740	AC-FT	6910000		

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	HARD- NESS (CA, MG) (MG/L)
OCT										
06...	0915	13300	1090	7.9	--	--	--	--	--	320
14...	0900	--	1090	--	--	--	--	--	--	--
20...	0800	--	1100	--	--	--	--	--	--	--
28...	0945	--	1100	--	--	--	--	--	--	--
NOV										
03...	0815	4710	1090	7.9	--	--	--	--	--	330
10...	0830	--	1110	--	--	--	--	--	--	--
17...	0815	--	1100	--	--	--	--	--	--	--
24...	0930	--	1110	--	--	--	--	--	--	--
DEC										
01...	0800	4430	1100	7.9	--	--	--	--	--	330
08...	0800	--	1100	--	--	--	--	--	--	--
15...	1000	--	1110	--	--	--	--	--	--	--
21...	1600	--	1110	--	--	--	--	--	--	--
29...	0930	--	1110	--	--	--	--	--	--	--
JAN										
05...	0730	--	1110	--	--	--	--	--	--	--
12...	0730	--	1120	--	--	--	--	--	--	--
15...	1130	3680	1110	8.1	10.5	1	10.4	22	B1	300
19...	0730	--	1110	--	--	--	--	--	--	--
26...	0730	--	1110	--	--	--	--	--	--	--
FEB										
02...	0730	--	1110	--	--	--	--	--	--	--
09...	0800	--	1110	--	--	--	--	--	--	--
12...	1115	1740	1100	8.2	12.5	3	10.2	--	B1	330
17...	0800	--	1100	--	--	--	--	--	--	--
23...	0720	--	1100	--	--	--	--	--	--	--
MAR										
01...	0730	--	1100	--	--	--	--	--	--	--
08...	0730	--	1100	--	--	--	--	--	--	--
11...	0950	13200	1090	8.3	13.5	4	9.6	--	B1	330
15...	0730	--	1120	--	--	--	--	--	--	--
29...	0715	--	1090	--	--	--	--	--	--	--
APR										
05...	0730	--	1090	--	--	--	--	--	--	--
12...	0730	--	1100	--	--	--	--	--	--	--
15...	1040	9330	1090	8.3	16.0	1	9.6	14	B1	350
19...	0730	--	1100	--	--	--	--	--	--	--
26...	0730	--	1090	--	--	--	--	--	--	--
MAY										
03...	0730	--	1090	--	--	--	--	--	--	--
10...	0730	--	1090	--	--	--	--	--	--	--
13...	1040	8950	1100	8.2	22.0	2	8.8	12	B1	330
17...	0730	--	1090	--	--	--	--	--	--	--
24...	0730	--	1090	--	--	--	--	--	--	--
JUN										
01...	0830	--	1090	--	--	--	--	--	--	--
07...	0730	--	1090	--	--	--	--	--	--	--
10...	1035	11400	1090	7.9	21.5	1	7.6	18	B1	350
14...	0730	--	1090	--	--	--	--	--	--	--
21...	0730	--	1090	--	--	--	--	--	--	--
28...	0730	--	1100	--	--	--	--	--	--	--
JUL										
06...	0700	--	1080	--	--	--	--	--	--	--
12...	0730	--	1080	--	--	--	--	--	--	--
15...	1050	14360	1080	7.8	24.0	1	6.9	--	--	350
19...	0800	--	1080	--	--	--	--	--	--	--
26...	0730	--	1080	--	--	--	--	--	--	--
AUG										
02...	0730	--	1080	--	--	--	--	--	--	--
09...	0730	--	1070	--	--	--	--	--	--	--
12...	1040	18610	1080	7.8	24.5	1	6.8	--	B2	330
16...	0930	--	1080	--	21.0	--	--	--	--	--
23...	0930	--	1080	--	24.0	--	--	--	--	--
30...	0730	--	1080	--	--	--	--	--	--	--
SEP										
07...	0730	--	1070	--	--	--	--	--	--	--
13...	0730	--	1080	--	--	--	--	--	--	--
16...	1045	4630	1070	7.7	24.5	1	6.9	--	B1	320
20...	0930	--	1070	--	--	--	--	--	--	--
27...	0730	--	1060	--	--	--	--	--	--	--

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

COLORADO RIVER MAIN STEM

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
OCT									
06...	.3	6.8	690	701	.94	.12	--	140	10
14...	--	--	696	--	.95	--	--	--	--
20...	--	--	704	--	.96	--	--	--	--
28...	--	--	696	--	.95	--	--	--	--
NOV									
03...	.4	7.7	692	708	.94	.14	--	140	20
10...	--	--	710	--	.97	--	--	--	--
17...	--	--	704	--	.96	--	--	--	--
24...	--	--	712	--	.97	--	--	--	--
DEC									
01...	.4	8.1	698	709	.95	.26	--	140	50
08...	--	--	696	--	.95	--	--	--	--
15...	--	--	706	--	.96	--	--	--	--
21...	--	--	700	--	.95	--	--	--	--
29...	--	--	704	--	.96	--	--	--	--
JAN									
05...	--	--	702	--	.95	--	--	--	--
12...	--	--	716	--	.97	--	--	--	--
15...	.4	7.8	735	701	1.00	.17	.00	130	30
19...	--	--	704	--	.96	--	--	--	--
26...	--	--	704	--	.96	--	--	--	--
FEB									
02...	--	--	706	--	.96	--	--	--	--
09...	--	--	704	--	.96	--	--	--	--
12...	.4	7.5	749	695	1.02	.16	.00	120	0
17...	--	--	704	--	.96	--	--	--	--
23...	--	--	704	--	.96	--	--	--	--
MAR									
01...	--	--	698	--	.95	--	--	--	--
08...	--	--	700	--	.95	--	--	--	--
11...	.4	8.3	731	695	.99	.20	.01	130	10
15...	--	--	716	--	.97	--	--	--	--
29...	--	--	692	--	.94	--	--	--	--
APR									
05...	--	--	698	--	.95	--	--	--	--
12...	--	--	700	--	.95	--	--	--	--
15...	.4	6.3	719	706	.98	.20	.00	130	10
19...	--	--	698	--	.95	--	--	--	--
26...	--	--	690	--	.94	--	--	--	--
MAY									
03...	--	--	688	--	.94	--	--	--	--
10...	--	--	684	--	.93	--	--	--	--
13...	.4	4.8	728	694	.99	.15	.01	130	0
17...	--	--	678	--	.92	--	--	--	--
24...	--	--	678	--	.92	--	--	--	--
JUN									
01...	--	--	686	--	.93	--	--	--	--
07...	--	--	694	--	.94	--	--	--	--
10...	.4	7.8	732	722	1.00	--	--	120	10
14...	--	--	680	--	.92	--	--	--	--
21...	--	--	702	--	.95	--	--	--	--
28...	--	--	696	--	.95	--	--	--	--
JUL									
06...	--	--	676	--	.92	--	--	--	--
12...	--	--	676	--	.92	--	--	--	--
15...	.4	8.3	719	692	.98	.11	.00	130	10
19...	--	--	676	--	.92	--	--	--	--
26...	--	--	676	--	.92	--	--	--	--
AUG									
02...	--	--	674	--	.92	--	--	--	--
09...	--	--	682	--	.93	--	--	--	--
12...	.3	8.5	703	696	.96	.07	.01	140	10
16...	--	--	688	--	.94	--	--	--	--
23...	--	--	684	--	.93	--	--	--	--
30...	--	--	674	--	.92	--	--	--	--
SEP									
07...	--	--	682	--	.93	--	--	--	--
13...	--	--	682	--	.93	--	--	--	--
16...	.3	8.5	701	688	.95	.15	.00	130	10
20...	--	--	676	--	.92	--	--	--	--
27...	--	--	662	--	.90	--	--	--	--

COLORADO RIVER MAIN STEM

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOSPHORUS (P) (MG/L)
JAN										
15...	1130	.17	.00	.19	.17	.56	.75	3.3	.00	.00
FEB										
12...	1115	--	--	.16	.16	.46	.62	2.7	.03	.00
MAR										
11...	0950	--	--	.20	.20	.51	.71	3.1	.01	.01
APR										
15...	1040	--	--	.19	.20	.20	.39	1.7	.09	.00
MAY										
13...	1040	--	--	.21	.15	.27	.48	2.1	.01	.01
JUN										
10...	1035	--	--	.18	--	.35	.53	2.3	.02	--
JUL										
15...	1050	--	--	.11	.11	.24	.35	1.6	.01	.00
AUG										
12...	1040	--	--	.11	.07	.22	.33	1.5	.02	.01
SEP										
16...	1045	--	--	.15	.15	.60	.75	3.3	.00	.00

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL BORON (B) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	HEXA-VALENT CHROMIUM (CR6) (UG/L)
JAN										
15...	1130	--	4	--	--	130	--	0	--	1
FEB										
12...	1115	3	--	0	180	120	<10	0	0	--
MAR										
11...	0950	2	--	0	170	130	<10	1	0	--
APR										
15...	1040	2	--	100	180	130	<10	1	0	--
MAY										
13...	1040	3	--	200	160	130	<10	0	0	--
JUN										
10...	1035	3	--	300	190	120	0	0	10	--
JUL										
15...	1050	4	--	100	200	130	<10	0	10	--
AUG										
12...	1040	2	--	0	170	140	<10	--	0	--
SEP										
16...	1045	3	--	100	180	130	<10	--	0	--

COLORADO RIVER MAIN STEM

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
JAN 15...	--	0	--	30	--	0	--	0	--
FEB 12...	<10	--	100	0	<100	--	20	0	.0
MAR 11...	20	--	210	10	<100	--	40	10	.0
APR 15...	10	--	120	10	<100	--	10	10	.0
MAY 13...	10	--	40	0	<100	--	10	0	.0
JUN 10...	1	--	50	10	7	--	20	0	.2
JUL 15...	10	--	100	10	100	--	30	20	.0
AUG 12...	10	--	160	10	<100	--	20	10	.0
SEP 16...	10	--	30	10	<100	--	20	10	.0

DATE	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)
JAN 15...	.0	--	3	--	--	0	4.0	.00	1
FEB 12...	--	2	--	<10	10	--	4.0	.00	2
MAR 11...	--	4	--	<10	10	--	3.3	.00	2
APR 15...	--	5	--	<10	10	--	3.8	.00	0
MAY 13...	--	3	--	<10	0	--	3.0	.01	2
JUN 10...	--	2	--	0	20	--	6.3	.00	7
JUL 15...	--	3	--	<10	20	--	6.9	.02	2
AUG 12...	--	3	--	<10	10	--	1.9	.00	2
SEP 16...	--	3	--	<10	10	--	2.8	.01	3

09429000. PALO VERDE CANAL NEAR BLYTHE, CALIF.

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

PERIOD OF RECORD.--January 1922 to December 1923, January 1925 to current year (prior to October 1950, monthly discharge only).

GAGE.--Recording gages above and below intakes to record head. Since May 18, 1964, recorder to show gate openings. Datum of gage is: Forebay gage, at mean sea level; tailrace gage, 274.13 ft (83.555 m) above mean sea level. Aug. 7, 1950, to Nov. 30, 1952, water-stage recorder on tailrace and auxiliary recorder 0.5 mi (0.8 km) downstream and Dec. 1, 1952, to Oct. 28, 1957, recording gage above and below former intake structure 0.2 mi (0.3 km) upstream, at different datums.

AVERAGE DISCHARGE.--26 years (1950-76), 1,205 ft³/s (34.13 m³/s), 873,000 acre-ft/yr (1,080 hm³/yr).

EXTREMES.--Period of record: Maximum daily discharge, 2,180 ft³/s (61.7 m³/s) Aug. 7, 1962; no flow at times.

REMARKS.--Records good. Daily diversions computed on basis of head on intake gates and gate openings. Records published herein represent flow diverted from Colorado River for irrigation of 91,784 acres (371 km²) during the 1975 calendar year. Return flows to Colorado River are measured by 11 wasteways and drains extending throughout the project; 5 of these are equipped with water-stage recorder and Parshall flume, 3 are equipped with Sparling flowmeters. Return flows have not been subtracted; combined monthly return flows are given in table below. Records of chemical analyses for the current year are published on following pages.

REVISIONS (WATER YEARS).--WSP 1213: 1946-48.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1580	932	697	870	913	1240	1850	1780	1340	1850	1900	1560
2	1290	837	655	1070	1030	1290	1880	1740	1510	1830	1870	1570
3	1340	1060	606	1070	1060	1420	1660	1980	1620	1880	1820	1670
4	1290	946	597	317	1050	1420	1570	1980	1590	1860	1850	1520
5	1180	993	623	0	975	1320	1630	2020	1580	1880	1890	1100
6	1250	1120	637	0	795	1070	1590	1940	1500	1990	1960	950
7	1090	1110	565	0	702	986	1570	1780	1310	1920	1970	1150
8	1180	1050	708	0	722	1150	1720	1650	1560	1900	1910	1300
9	1220	958	732	0	484	1250	1790	1540	1600	1980	1970	1330
10	1160	977	713	0	517	1320	1790	1460	1650	1860	2010	1050
11	1090	894	692	0	467	1300	1630	1420	1640	1820	2070	994
12	1020	897	681	0	493	1370	1830	1540	1670	1910	1980	1070
13	1140	944	683	0	420	1340	1800	1800	1340	1940	1860	1160
14	1080	973	622	0	378	1210	1180	1980	1580	1920	1870	1130
15	1070	948	514	0	345	1550	761	1800	1660	2000	1650	1400
16	1100	836	679	0	366	1620	685	1820	1760	1970	1760	1400
17	1120	958	774	262	395	1790	660	1860	1840	1960	1780	1310
18	1070	958	908	509	449	1700	615	1810	1860	1760	1810	1310
19	882	900	896	1010	423	1740	1080	1830	1790	1850	1680	1200
20	987	912	796	1330	571	1480	1280	1720	1770	1890	1590	1080
21	1030	892	799	1350	563	1420	1470	1680	1890	1830	1550	1250
22	962	838	866	1410	606	1510	1780	1550	1850	1870	1390	1240
23	942	655	793	1290	668	1480	1820	1370	1880	1790	1610	985
24	970	757	622	1150	777	1600	1770	1340	1870	1690	1600	743
25	946	640	529	1140	958	1670	1660	1400	1930	1470	1660	524
26	805	672	821	1070	1080	1620	1700	1550	1930	1570	1750	508
27	989	594	827	1100	1300	1450	1650	1620	1920	1590	1790	491
28	1080	688	832	1120	1390	1170	1750	1600	1820	1780	1730	548
29	1060	712	999	1260	1120	1440	1930	1510	1800	1880	1600	490
30	1030	636	1020	1250	---	1540	1890	1420	1840	1990	1620	482
31	1050	---	978	1090	---	1790	---	1270	---	1930	1610	---
TOTAL	34003	26287	22864	19668	21017	44256	45991	51760	50900	57360	55110	32515
MEAN	1097	876	738	634	725	1428	1533	1670	1697	1850	1778	1084
MAX	1580	1120	1020	1410	1390	1790	1930	2020	1930	2000	2070	1670
MIN	805	594	514	0	345	986	615	1270	1310	1470	1390	482
AC-FT	67440	52140	45350	39010	41690	87780	91220	102700	101000	113800	109300	64490

CAL YR 1975 TOTAL 470816 MEAN 1290 MAX 1940 MIN 514 AC-FT 933900
 WTR YR 1976 TOTAL 461731 MEAN 1262 MAX 2070 MIN .00 AC-FT 915800

DIVERSIONS AND RETURN FLOWS BETWEEN PARKER DAM AND PALO VERDE DAM

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

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

REMARKS.--No flow Jan. 5-16.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA, MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DIS-SOLVED POTASSIUM (K) (MG/L)
OCT												
06...	0745	1330	1130	8.0	24.0	330	210	82	31	110	2.6	5.5
14...	0810	--	1220	--	19.5	--	--	--	--	--	--	--
20...	0745	--	1240	--	21.5	--	--	--	--	--	--	--
28...	0740	--	1230	--	18.0	--	--	--	--	--	--	--
NOV												
03...	0730	1140	1160	8.1	18.0	350	210	88	31	110	2.6	7.7
10...	0730	--	1200	--	15.0	--	--	--	--	--	--	--
17...	0930	--	1320	--	15.0	--	--	--	--	--	--	--
DEC												
01...	0745	752	1180	8.0	10.5	360	220	91	32	110	2.5	5.3
08...	0730	--	1190	--	11.5	--	--	--	--	--	--	--
15...	0800	--	1150	--	10.0	--	--	--	--	--	--	--
22...	0800	--	1160	--	11.0	--	--	--	--	--	--	--
29...	0745	--	1130	--	10.5	--	--	--	--	--	--	--
JAN												
06...	0910	.00	1150	8.0	10.0	350	210	86	34	110	2.5	4.9
12...	0740	--	1220	--	9.5	--	--	--	--	--	--	--
19...	1145	--	1260	--	12.0	--	--	--	--	--	--	--
26...	0730	--	1140	--	9.5	--	--	--	--	--	--	--
FEB												
03...	0750	1090	1120	8.2	11.5	340	210	85	31	100	2.4	4.7
09...	0730	--	1120	--	11.0	--	--	--	--	--	--	--
17...	0800	--	1210	--	12.0	--	--	--	--	--	--	--
23...	1045	--	1120	--	13.0	--	--	--	--	--	--	--
MAR												
01...	1045	1250	1120	8.1	11.5	330	190	84	28	110	2.7	5.2
08...	1100	--	1110	--	12.0	--	--	--	--	--	--	--
15...	1150	--	1110	--	14.0	--	--	--	--	--	--	--
29...	0745	--	1140	--	15.5	--	--	--	--	--	--	--
APR												
05...	0730	1710	1120	8.1	16.0	340	200	83	31	110	2.6	5.5
12...	1030	--	1120	--	18.0	--	--	--	--	--	--	--
19...	0745	--	1130	--	16.5	--	--	--	--	--	--	--
26...	0800	--	1110	--	19.0	--	--	--	--	--	--	--
MAY												
03...	1400	2100	1100	8.2	19.0	330	190	81	31	110	2.6	4.9
10...	1100	--	1110	--	21.0	--	--	--	--	--	--	--
18...	0900	--	1100	--	21.5	--	--	--	--	--	--	--
24...	1115	--	1150	--	21.0	--	--	--	--	--	--	--
JUN												
01...	0720	1290	1110	8.0	23.5	340	200	85	30	110	2.6	5.1
07...	1100	--	1210	--	22.0	--	--	--	--	--	--	--
14...	1130	--	1110	--	23.5	--	--	--	--	--	--	--
21...	1030	--	1100	--	25.5	--	--	--	--	--	--	--
28...	1150	--	1110	--	25.5	--	--	--	--	--	--	--
JUL												
06...	0745	2010	1110	8.1	25.5	340	200	82	32	110	2.6	5.2
12...	0730	--	1100	--	25.5	--	--	--	--	--	--	--
19...	0810	--	1100	--	26.0	--	--	--	--	--	--	--
26...	0740	--	1090	--	25.0	--	--	--	--	--	--	--
AUG												
02...	1045	1980	1090	8.1	25.0	330	200	83	29	110	2.6	5.0
09...	0725	--	1140	--	25.5	--	--	--	--	--	--	--
16...	0750	--	1110	--	24.0	--	--	--	--	--	--	--
23...	0800	--	1090	--	24.0	--	--	--	--	--	--	--
30...	0850	--	1090	--	25.5	--	--	--	--	--	--	--
SEP												
07...	0720	985	1110	8.0	25.0	330	210	82	31	110	2.6	5.0
13...	0730	--	1300	--	24.5	--	--	--	--	--	--	--
20...	0730	--	1130	--	24.0	--	--	--	--	--	--	--
27...	0730	--	1060	--	24.0	--	--	--	--	--	--	--

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS PER AC-FT	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
OCT												
06...	147	0	290	98	.3	7.2	714	698	.97	.25	140	10
14...	--	--	--	--	--	--	788	--	1.07	--	--	--
20...	--	--	--	--	--	--	786	--	1.07	--	--	--
28...	--	--	--	--	--	--	790	--	1.07	--	--	--
NOV												
03...	167	0	310	100	.3	8.1	732	738	1.00	.11	150	0
10...	--	--	--	--	--	--	756	--	1.03	--	--	--
17...	--	--	--	--	--	--	834	--	1.13	--	--	--
DEC												
01...	167	0	310	100	.4	8.7	746	741	1.01	.18	140	10
08...	--	--	--	--	--	--	762	--	1.04	--	--	--
15...	--	--	--	--	--	--	728	--	.99	--	--	--
22...	--	--	--	--	--	--	734	--	1.00	--	--	--
29...	--	--	--	--	--	--	712	--	.97	--	--	--
JAN												
06...	173	0	300	97	.3	9.3	730	729	.99	.46	130	0
12...	--	--	--	--	--	--	778	--	1.06	--	--	--
19...	--	--	--	--	--	--	806	--	1.10	--	--	--
26...	--	--	--	--	--	--	724	--	.98	--	--	--
FEB												
03...	161	0	300	91	.4	7.8	712	701	.97	.25	130	0
09...	--	--	--	--	--	--	708	--	.96	--	--	--
17...	--	--	--	--	--	--	768	--	1.04	--	--	--
23...	--	--	--	--	--	--	714	--	.97	--	--	--
MAR												
01...	163	0	280	89	.3	8.2	712	686	.97	.19	130	0
08...	--	--	--	--	--	--	706	--	.96	--	--	--
15...	--	--	--	--	--	--	710	--	.97	--	--	--
29...	--	--	--	--	--	--	720	--	.98	--	--	--
APR												
05...	166	0	300	92	.3	7.7	712	713	.97	.27	230	10
12...	--	--	--	--	--	--	712	--	.97	--	--	--
19...	--	--	--	--	--	--	716	--	.97	--	--	--
26...	--	--	--	--	--	--	704	--	.96	--	--	--
MAY												
03...	166	0	300	91	.4	5.0	696	715	.95	2.1	140	0
10...	--	--	--	--	--	--	698	--	.95	--	--	--
18...	--	--	--	--	--	--	686	--	.93	--	--	--
24...	--	--	--	--	--	--	728	--	.99	--	--	--
JUN												
01...	164	0	300	89	.4	6.3	702	708	.95	.18	130	20
07...	--	--	--	--	--	--	768	--	1.04	--	--	--
14...	--	--	--	--	--	--	696	--	.95	--	--	--
21...	--	--	--	--	--	--	682	--	.93	--	--	--
28...	--	--	--	--	--	--	708	--	.96	--	--	--
JUL												
06...	161	0	310	97	.3	8.3	706	725	.96	.17	130	10
12...	--	--	--	--	--	--	686	--	.93	--	--	--
19...	--	--	--	--	--	--	684	--	.93	--	--	--
26...	--	--	--	--	--	--	694	--	.94	--	--	--
AUG												
02...	156	0	300	92	.3	7.8	680	705	.92	.24	130	20
09...	--	--	--	--	--	--	718	--	.98	--	--	--
16...	--	--	--	--	--	--	708	--	.96	--	--	--
23...	--	--	--	--	--	--	694	--	.94	--	--	--
30...	--	--	--	--	--	--	686	--	.93	--	--	--
SEP												
07...	155	0	300	93	.4	8.6	704	707	.96	.20	150	10
13...	--	--	--	--	--	--	852	--	1.16	--	--	--
20...	--	--	--	--	--	--	716	--	.97	--	--	--
27...	--	--	--	--	--	--	640	--	.87	--	--	--

09429010 COLORADO RIVER AT PALO VERDE DAM, ARTZ.-CALIF.

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

DRAINAGE AREA (REVISED).--186,200 mi² (482,300 km²), approximately, including 3,959 mi² (10,254 km²) in Great Divide basin in southern Wyoming, which is noncontributing (previously considered part of the Missouri River basin).

PERIOD OF RECORD.--April 1969 to current year. If records (available in files of Tucson District office) for the two Colorado River Indian Reservation drains entering below Palo Verde Dam are added to records for this station, records equivalent to those published 1956-69 as Colorado River below Palo Verde Dam can be obtained.

GAGE.--Two water-stage recorders, one above and one below dam, to record head on gates, and water-stage recorder to record gate opening. Supplementary water-stage recorder above dam operated by Geological Survey and supplementary water-stage recorder below dam operated by Palo Verde Irrigation District. Datum of gages is at mean sea level.

AVERAGE DISCHARGE.--7 years, 7,355 ft³/s (208.3 m³/s), 5,329,000 acre-ft/yr (6,570 hm³/yr).

EXTREMES.--Current year: Maximum daily discharge, 12,900 ft³/s (365 m³/s) Mar. 28; minimum daily, 1,350 ft³/s (38.2 m³/s) Sept. 12. Period of record: Maximum daily discharge, 13,200 ft³/s (374 m³/s) Apr. 8, 1970; minimum daily, 1,060 ft³/s (30.0 m³/s) Nov. 24, 1972.

REMARKS.--Records good. Record does not include diversion to Palo Verde Canal. (See elsewhere in this report.) Daily discharge computed from relation between discharge, head, and gate openings. Many diversions above station for irrigation, municipal, and industrial uses. Flow regulated by Lake Mead, Lake Mojave, and Lake Havasu.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8140	4470	3570	5390	6490	10200	10400	10700	7630	9070	9540	9670
2	7160	4690	3890	5110	6690	10700	10500	10900	7810	8080	10000	9540
3	6820	4680	3970	4920	7580	10900	11200	10900	7870	10100	10000	8700
4	7710	5600	5200	5580	7000	9850	11400	10400	7040	10000	9660	9400
5	8460	5670	5200	5110	6650	9320	12200	9800	8110	10000	9340	9400
6	8180	4300	5670	5460	5340	9630	11300	9240	8070	9610	9480	8860
7	7650	4120	5560	5360	4260	9160	11500	8520	8860	9100	11300	5740
8	6860	4890	5000	4700	5080	8890	10700	6830	8480	9130	11300	5420
9	6230	5180	5350	3840	4400	8990	10300	6630	8100	9680	11300	5860
10	5980	5330	4920	4530	2570	9020	12300	7490	6980	11500	10400	5080
11	6560	4770	4410	4780	1720	8000	11800	8260	7530	11700	10400	1830
12	6660	4320	4400	4920	1520	7640	11500	8440	8790	10700	10200	1350
13	6640	4150	3930	4780	2030	9680	11000	8860	8930	10600	10000	2390
14	6070	3840	4800	4220	2360	9900	7380	7920	9100	10000	10800	3460
15	5880	5420	5710	3940	1810	10100	5550	8400	8880	9240	10700	3490
16	4440	5700	5980	3630	1720	10700	4960	8720	8270	9360	10900	3660
17	4620	5800	6040	4980	1900	10800	5770	8900	8030	10600	10200	4120
18	6270	5480	5580	5190	2010	10300	8630	10100	8150	11000	10100	5230
19	7030	5430	5180	5210	2830	10500	9010	9150	8450	10800	9790	5430
20	7180	5100	5350	4960	3510	11700	8850	7590	9370	10100	10300	6940
21	6130	4540	4810	4880	4980	11800	10100	7900	9480	9920	10700	7100
22	5700	5710	2680	4400	5980	11600	10800	9260	9180	9480	10600	6970
23	4790	5460	1760	4430	7080	11900	11300	9250	9250	9530	10100	7500
24	4740	4240	4500	5000	8590	11300	12700	8420	8500	10100	9920	4500
25	5130	3190	5460	5710	8650	12000	11600	7360	8170	10700	9730	5450
26	5680	3200	5370	5890	8950	11100	10900	7300	8690	10200	9160	2770
27	5540	3390	5760	5420	8880	12600	12400	6380	9320	8740	9130	3610
28	5500	3230	5580	5380	9380	12900	11900	7680	9540	7250	10400	3620
29	5400	3580	4860	5370	10600	12200	10000	8600	9750	6630	10300	3920
30	5120	3530	3480	4910	---	12200	10500	8660	10100	7010	10100	3290
31	4170	---	5020	5750	---	11700	---	8240	---	9220	9660	---
TOTAL	192440	139010	148990	153750	150560	327280	308450	266800	256430	299150	315510	164300
MEAN	6208	4634	4806	4960	5192	10560	10280	8606	8548	9650	10180	5477
MAX	8460	5800	6040	5890	10600	12900	12700	10900	10100	11700	11300	9670
MIN	4170	3190	1760	3630	1520	7640	4960	6380	6980	6630	9130	1350
AC-FT	381700	275700	295500	305000	298600	649200	611800	529200	508600	593400	625800	325900
CAL YR 1975	TOTAL	2822150	MEAN	7732	MAX	12200	MIN	1760	AC-FT	5598000		
WTR YR 1976	TOTAL	2722670	MEAN	7439	MAX	12900	MIN	1350	AC-FT	5400000		

09429130. PALO VERDE IRRIGATION DISTRICT OLIVE LAKE DRAIN NEAR BLYTHE, CALIF.

LOCATION.--Lat 33°40'36", long 114°32'09", in SW¼SW¼ sec.1, T.6 S., R.23 E., San Bernardino meridian, Riverside County, 0.3 mi (0.5 km) upstream from mouth, and 5 mi (8 km) northeast of Blythe.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1970 (partial-record station), October 1970 to current year.

REMARKS.--Unpublished miscellaneous chemical analyses for water years 1962-68 available from district office in Tucson, Ariz.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA, MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DIS-SOLVED POTASSIUM (K) (MG/L)
OCT 03...	0910	9.0	1390	7.7	22.5	450	250	120	37	140	2.9	5.9
NOV 03...	0930	10	1480	7.8	17.0	450	240	120	37	140	2.9	6.1
DEC 01...	1100	6.0	1630	7.9	15.0	540	290	150	41	160	3.0	6.7
JAN 02...	0915	4.0	1600	7.8	8.0	530	280	150	38	150	2.8	7.0
FEB 02...	1100	4.0	1660	8.0	14.0	540	360	150	39	150	2.8	6.6
MAR 02...	0900	3.6	1310	8.1	15.0	410	240	110	33	120	2.6	4.8
APR 01...	1545	9.0	1640	8.0	23.5	530	270	140	43	150	2.8	6.8
MAY 03...	0920	9.0	1580	7.9	20.0	520	270	140	42	150	2.9	6.6
JUN 01...	0940	10	1570	7.8	21.0	540	290	150	39	150	2.8	6.3
JUL 01...	0855	18	1620	7.7	22.0	520	270	140	42	160	3.0	6.1
AUG 02...	0945	15	1580	7.6	23.0	560	320	150	44	150	2.8	5.9
SEP 01...	0820	18	1640	7.8	23.0	520	260	140	41	160	3.1	6.2

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED NITRATE PLUS NITRITE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
OCT 03...	242	0	370	120	.3	13	944	927	1.28	.35	180	0
NOV 03...	264	0	380	120	.3	14	998	949	1.36	.19	170	50
DEC 01...	307	0	450	130	.4	18	1080	1110	1.47	.31	190	160
JAN 02...	303	0	440	120	.3	16	972	1070	1.32	.18	170	10
FEB 02...	212	0	450	140	.4	16	1040	1060	1.41	.24	180	70
MAR 02...	211	0	350	110	.5	11	852	844	1.16	.17	160	10
APR 01...	307	0	390	130	.4	17	1070	1030	1.46	.14	180	10
MAY 03...	305	0	440	140	.4	16	1000	1090	1.36	.19	160	20
JUN 01...	297	0	420	130	.3	16	1050	1060	1.43	.35	170	10
JUL 01...	305	0	410	150	.4	17	1070	1080	1.46	.21	180	20
AUG 02...	287	0	420	140	.4	17	1060	1070	1.44	.25	180	10
SEP 01...	313	0	410	140	.4	18	1090	1070	1.48	.31	190	20

DIVERSIONS AND RETURN FLOWS BETWEEN PALO VERDE DAM AND IMPERIAL DAM

09429220. PALO VERDE IRRIGATION DISTRICT OUTFALL DRAIN NEAR PALO VERDE, CALIF.

LOCATION.--Lat 33°21'41", long 114°43'20", in SE4SE4 sec.26, T.9 S., R.21 E., San Bernardino meridian, Imperial County, at gaging station, at State Highway 78 bridge, 3.3 mi (5.3 km) upstream from mouth, and 5 mi (8 km) south of Palo Verde.

WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)
OCT												
06...	1350	745	2470	8.1	24.0	500	260	130	43	360	7.0	6.5
14...	1330	--	2690	--	20.5	--	--	--	--	--	--	--
20...	1335	--	2590	--	21.5	--	--	--	--	--	--	--
28...	1330	--	2510	--	20.0	--	--	--	--	--	--	--
NOV												
03...	1320	514	2780	8.0	20.0	530	250	140	43	430	8.2	8.2
10...	1345	--	2520	--	18.5	--	--	--	--	--	--	--
17...	0830	--	2660	--	16.5	--	--	--	--	--	--	--
24...	1320	--	2580	--	17.0	--	--	--	--	--	--	--
DEC												
01...	1315	504	2770	7.9	13.0	530	270	140	44	430	8.1	6.4
08...	1335	--	2790	--	15.0	--	--	--	--	--	--	--
15...	1400	--	2710	--	13.0	--	--	--	--	--	--	--
22...	1330	--	2920	--	13.0	--	--	--	--	--	--	--
29...	1400	--	2510	--	13.5	--	--	--	--	--	--	--
JAN												
06...	1400	412	3190	7.9	10.0	570	290	150	48	500	9.1	6.8
12...	1400	--	3200	--	12.0	--	--	--	--	--	--	--
19...	0915	--	3240	--	16.0	--	--	--	--	--	--	--
26...	1400	--	2920	--	14.0	--	--	--	--	--	--	--
FEB												
03...	1400	465	2750	8.1	14.5	520	300	140	42	390	7.4	6.8
09...	1345	--	2650	--	14.5	--	--	--	--	--	--	--
17...	1030	--	2720	--	14.5	--	--	--	--	--	--	--
23...	0940	--	2500	--	14.0	--	--	--	--	--	--	--
MAR												
01...	0930	468	2570	8.0	13.5	490	250	130	41	380	7.4	6.8
08...	0930	--	2570	--	13.0	--	--	--	--	--	--	--
15...	1040	--	2740	--	15.5	--	--	--	--	--	--	--
29...	1320	--	2860	--	20.5	--	--	--	--	--	--	--
APR												
05...	1330	608	2600	8.1	19.0	500	250	130	43	370	7.2	7.0
12...	0910	--	2710	--	20.0	--	--	--	--	--	--	--
19...	1340	--	2690	--	20.5	--	--	--	--	--	--	--
26...	1400	--	2660	--	23.0	--	--	--	--	--	--	--
MAY												
03...	0945	664	2630	7.9	21.0	500	250	130	43	400	7.8	6.7
10...	0945	--	2570	--	22.0	--	--	--	--	--	--	--
18...	1030	--	2870	--	26.0	--	--	--	--	--	--	--
24...	1000	--	2680	--	21.5	--	--	--	--	--	--	--
JUN												
01...	0930	650	2670	8.0	24.5	510	250	130	44	410	7.9	6.6
07...	0930	--	2850	--	22.0	--	--	--	--	--	--	--
14...	0920	--	2650	--	24.5	--	--	--	--	--	--	--
21...	0855	--	2600	--	25.0	--	--	--	--	--	--	--
28...	1000	--	2470	--	26.5	--	--	--	--	--	--	--
JUL												
06...	1400	692	2610	8.2	27.0	500	240	130	43	390	7.6	6.6
12...	1215	--	2390	--	28.0	--	--	--	--	--	--	--
19...	1330	--	2500	--	27.0	--	--	--	--	--	--	--
26...	1330	--	2600	--	27.0	--	--	--	--	--	--	--
AUG												
02...	0930	730	2550	8.1	29.0	490	240	130	40	380	7.5	6.7
09...	1310	--	2690	--	29.0	--	--	--	--	--	--	--
16...	1320	--	2500	--	25.5	--	--	--	--	--	--	--
23...	1340	--	2800	--	28.0	--	--	--	--	--	--	--
30...	0935	--	2560	--	21.0	--	--	--	--	--	--	--
SEP												
07...	0930	909	2360	7.9	24.0	490	250	130	40	340	6.7	6.8
13...	1400	--	2600	--	25.0	--	--	--	--	--	--	--
20...	1025	--	2400	--	24.5	--	--	--	--	--	--	--
27...	1405	--	2390	--	26.0	--	--	--	--	--	--	--

09429220. PALO VERDE IRRIGATION DISTRICT OUTFALL DRAIN NEAR PALO VERDE, CALIF.--CONTINUED

PERIOD OF RECORD.--Chemical analyses: October 1968 to current year.

REMARKS.--Unpublished miscellaneous chemical analyses for water years 1962-68 available from district office in Tucson, Ariz.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	OIS- SOLVED) NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)
OCT												
06...	290	0	580	340	1.0	17	1590	1620	2.16	.20	500	0
14...	--	--	--	--	--	--	1740	--	2.37	--	--	--
20...	--	--	--	--	--	--	1690	--	2.30	--	--	--
28...	--	--	--	--	--	--	1640	--	2.23	--	--	--
NOV												
03...	332	0	630	410	1.2	20	1770	1850	2.41	.41	610	0
10...	--	--	--	--	--	--	1610	--	2.19	--	--	--
17...	--	--	--	--	--	--	1720	--	2.34	--	--	--
24...	--	--	--	--	--	--	1690	--	2.30	--	--	--
DEC												
01...	316	0	580	410	1.2	20	1780	1790	2.42	.53	570	10
08...	--	--	--	--	--	--	1810	--	2.46	--	--	--
15...	--	--	--	--	--	--	1780	--	2.42	--	--	--
22...	--	--	--	--	--	--	1870	--	2.54	--	--	--
29...	--	--	--	--	--	--	1600	--	2.18	--	--	--
JAN												
06...	344	0	650	510	1.2	21	2060	2060	2.80	.81	700	20
12...	--	--	--	--	--	--	2040	--	2.77	--	--	--
19...	--	--	--	--	--	--	2120	--	2.88	--	--	--
26...	--	--	--	--	--	--	1890	--	2.57	--	--	--
FEB												
03...	275	0	560	400	1.2	19	1790	1700	2.43	.62	560	10
09...	--	--	--	--	--	--	1740	--	2.37	--	--	--
17...	--	--	--	--	--	--	1800	--	2.45	--	--	--
23...	--	--	--	--	--	--	1650	--	2.24	--	--	--
MAR												
01...	296	0	530	360	1.1	19	1680	1620	2.28	.89	500	20
08...	--	--	--	--	--	--	1660	--	2.26	--	--	--
15...	--	--	--	--	--	--	1800	--	2.45	--	--	--
29...	--	--	--	--	--	--	1860	--	2.53	--	--	--
APR												
05...	309	0	520	380	1.1	18	1690	1630	2.30	.75	540	10
12...	--	--	--	--	--	--	1770	--	2.41	--	--	--
19...	--	--	--	--	--	--	1750	--	2.38	--	--	--
26...	--	--	--	--	--	--	1730	--	2.35	--	--	--
MAY												
03...	308	0	570	370	.8	18	1700	1700	2.31	2.2	530	10
10...	--	--	--	--	--	--	1680	--	2.28	--	--	--
18...	--	--	--	--	--	--	1880	--	2.56	--	--	--
24...	--	--	--	--	--	--	1740	--	2.37	--	--	--
JUN												
01...	314	0	590	370	1.1	19	1730	1730	2.35	.33	550	10
07...	--	--	--	--	--	--	1850	--	2.52	--	--	--
14...	--	--	--	--	--	--	1720	--	2.34	--	--	--
21...	--	--	--	--	--	--	1710	--	2.33	--	--	--
28...	--	--	--	--	--	--	1570	--	2.14	--	--	--
JUL												
06...	317	0	590	380	1.1	20	1690	1720	2.30	.30	520	20
12...	--	--	--	--	--	--	1540	--	2.09	--	--	--
19...	--	--	--	--	--	--	1620	--	2.20	--	--	--
26...	--	--	--	--	--	--	1640	--	2.23	--	--	--
AUG												
02...	310	0	570	370	1.1	19	1640	1670	2.23	.53	500	20
09...	--	--	--	--	--	--	1710	--	2.33	--	--	--
16...	--	--	--	--	--	--	1620	--	2.20	--	--	--
23...	--	--	--	--	--	--	1810	--	2.46	--	--	--
30...	--	--	--	--	--	--	1620	--	2.20	--	--	--
SEP												
07...	292	0	490	320	1.1	18	1530	1490	2.08	.65	460	0
13...	--	--	--	--	--	--	1660	--	2.26	--	--	--
20...	--	--	--	--	--	--	1540	--	2.09	--	--	--
27...	--	--	--	--	--	--	1530	--	2.08	--	--	--

DIVERSIONS AND RETURN FLOWS BETWEEN PALO VERDE DAM AND IMPERIAL DAM

09429225. PALO VERDE IRRIGATION DISTRICT ANDERSON DRAIN NEAR PALO VERDE, CALIF.

LOCATION.--Lat 33°21'19", long 114°43'00", in SW¼ sec.36, T.9 S., R.21 E., San Bernardino meridian, Imperial County, 0.1 mi (0.2 km) upstream from pump into Outfall drain, and 5.5 mi (8.8 km) south of Palo Verde.

PERIOD OF RECORD.--Chemical analyses: Water year 1969 (partial-record station), October 1969 to current year.

REMARKS.--Unpublished miscellaneous chemical analyses for water years 1966-68 available from district office in Tucson, Ariz.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DIS-SOLVED POTASSIUM (K) (MG/L)
OCT 01...	1430	2.2	3080	7.9	25.0	420	0	100	42	570	12	5.6
NOV 03...	1055	2.2	3100	8.1	19.5	270	0	59	29	630	17	4.8
DEC 01...	1300	2.3	3700	8.0	14.0	430	0	96	47	650	14	7.6
JAN 02...	1200	.00	2910	8.0	16.0	200	0	47	20	600	18	4.4
FEB 02...	1435	1.2	2540	7.9	20.5	250	0	59	26	470	13	5.1
MAR 01...	1505	.56	2760	7.9	19.0	210	0	48	22	520	16	4.7
APR 01...	1555	1.6	2730	7.9	23.0	210	0	47	23	530	16	4.3
MAY 03...	1105	.42	2720	7.9	22.0	230	0	49	25	510	15	4.3
JUN 01...	1430	1.4	2780	8.0	--	280	0	63	30	510	13	7.6
JUL 01...	1040	2.0	1450	7.5	29.0	260	200	52	31	190	5.2	9.9
AUG 02...	1345	1.2	2710	7.4	29.0	330	0	77	34	530	13	7.6
SEP 01...	1530	.00	3500	7.8	32.0	560	22	120	63	600	11	16

DATE	BICARBONATE (HC03) (MG/L)	CARBONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
OCT 01...	548	0	700	340	1.3	22	2030	2050	2.76	.07	840	20
NOV 03...	534	0	660	360	2.0	23	2020	2030	2.75	.08	970	150
DEC 01...	551	0	720	460	1.3	22	2430	2280	3.30	.42	890	20
JAN 02...	519	0	580	310	1.5	22	1850	1840	2.52	.22	930	210
FEB 02...	478	0	550	250	1.7	21	1640	1620	2.23	.08	750	160
MAR 01...	524	0	550	260	2.1	23	1760	1690	2.39	.06	840	140
APR 01...	515	0	530	260	2.0	23	1710	1670	2.33	.06	820	220
MAY 03...	521	0	580	260	1.9	22	1720	1710	2.34	.03	680	360
JUN 01...	552	0	570	290	1.6	23	1770	1770	2.41	1.4	800	140
JUL 01...	75	0	350	140	.6	15	946	897	1.29	16	260	100
AUG 02...	592	0	550	270	1.4	28	1780	1800	2.42	1.9	790	300
SEP 01...	655	0	710	430	1.0	30	2340	2310	3.18	2.5	870	80

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

LOCATION.--Lat 32°52'59", long 114°27'55", at Imperial Dam. The Arizona end of the dam is in SW¼NW¼ sec.30, T.6 S., R.21 W., Gila and Salt River meridian; the California end is in NW¼SW¼ sec.9, T.15 S., R.24 E., San Bernardino meridian. Imperial Dam is 5 mi (8 km) upstream from Laguna Dam, 15 mi (24 km) northeast of Yuma, Ariz., 90 mi (145 km) downstream from Palo Verde Dam, and 147 mi (237 km) downstream from Parker Dam.

DRAINAGE AREA (REVISED)--188,500 mi² (488,200 km²), approximately, including 3,959 mi² (10,254 km²) in Great Divide basin in southern Wyoming, which is noncontributing (previously considered part of the Missouri River basin).

PERIOD OF RECORD.--1903-34 (yearly discharge only, published in WSP 1313), July 1934 to current year (monthly discharge only since October 1942). Prior to October 1942 published as "near Picacho, Calif." October 1942 to September 1971 published as "at Imperial Dam" (monthly discharge shown as "flow reaching Imperial Dam," listed as supplement to "flow passing Imperial Dam").

GAGE.--Mne. This record is synthesized from records of several other stations (see REMARKS). July 13, 1934, to Sept. 30, 1942, water-stage recorder at site 14.5 mi (23.3 km) upstream at datum 167.38 ft (51.017 m) above mean sea level.

AVERAGE DISCHARGE.--42 years (1934-76), 11,110 ft³/s (314.6 m³/s), 8,049,000 acre-ft/yr (9,920 hm³/yr).

EXTREMES.--1934-76: Maximum discharge, 40,800 ft³/s (1,160 m³/s) Sept. 5, 1939; minimum, 538 ft³/s (15.2 m³/s) Aug. 3, 1934; minimum daily since regulation of Hoover Dam began, 1,450 ft³/s (41.1 m³/s) Feb. 17, 1935.

REMARKS.--Records show flow of Colorado River reaching Imperial Dam, and are based on combined monthly total flow of Colorado River below Imperial Dam (sta 09429500), All-American Canal near Imperial Dam (sta 09523000), Gila Gravity Main Canal at Imperial Dam (sta 09522500), and diversions to Mittry Lake. Records for 1903-34 and for October 1942 to September 1960 were computed as combined flow of Colorado River at Yuma (sta 09521000) and the canals diverting at Imperial and Laguna Dams, less the flow of Gila River near Dome (sta 09520560); for some of these periods drainage and waste return flows and channel losses between the gaging stations and Imperial Dam were considered, and for other periods they were neglected. Records for July 1934 to September 1942 show daily discharge of Colorado River at gaging station near Picacho, Calif.

Natural flow of Colorado River at this point affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals, and diversions for irrigation, municipal, and industrial uses, and return flows from irrigated areas. Diversions to Mittry Lake, which began June 23, 1970, are included in river records in table below. Additional regulation, beginning Jan. 31, 1966, to equalize supplies for downstream water users, is provided by pumped storage in reservoir on Senator Wash, about 2 mi (3 km) upstream from Imperial Dam. Monthend contents of Senator Wash Reservoir--capacity, 13,840 acre-ft (17.1 hm³)--is given in table below. Records of chemical analyses for the current water year are given on following pages.

COOPERATION.--Records of Sparling meter readings of diversion to Mittry Lake and contents of Senator Wash Reservoir furnished by Bureau of Reclamation.

COLORADO RIVER ABOVE IMPERIAL DAM, DIVERSIONS TO MITTRY LAKE, AND MONTHEND CONTENTS OF SENATOR WASH RESERVOIR, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Month	Discharge of Colorado River			Monthend contents, Senator Wash Reservoir (acre-feet)
	Mean (cubic feet per second)	Runoff in acre-feet	Diversions to Mittry Lake (acre-feet)*	
October	7,314	449,700	395	5,278
November	5,606	333,600	348	6,149
December	5,669	348,600	429	3,809
CAL YR 1975	8,510	6,161,000	6,830	-
January	5,549	341,200	479	7,860
February	5,696	327,600	564	1,600
March	10,700	658,100	631	8,570
April	11,410	678,800	626	3,750
May	9,624	591,800	700	7,240
June	9,354	556,600	593	6,540
July	10,530	647,400	634	9,750
August	10,890	669,900	617	7,720
September	7,555	449,500	543	13,750
WTF YR 1976	8,338	6,053,000	6,560	-

* Included in first two columns of table.

NOTE.--Discharge of Colorado River, in first two columns of table above, is combined discharge of Colorado River below Imperial Dam (sta 09429500) and diversions to All-American Canal, Gila Gravity Main Canal, and Mittry Lake.

COLORADO RIVER MAIN STEM

09429490. COLORADO RIVER ABOVE IMPERIAL DAM, ARIZ.-CALIF.
(National stream-quality accounting network, pesticide,
radiochemical, and tritium network station)

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

DRAINAGE AREA (REVISED)--188,500 mi² (488,200 km²), approximately, including 3,959 mi² (10,254 km²) in Great Divide basin in southern Wyoming which is noncontributing (previously considered part of the Missouri River basin).

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

Water temperatures: October 1974 to current year.

Prior to October 1971, published as sta 09429500, Colorado River at Imperial Dam, Ariz.-Calif.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	DIS- SOLVED OXYGEN (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)
OCT										
06...		8575	--	1300	8.1	--	2	--	--	--
07...	1400	--	--	--	--	--	--	--	--	--
07...	1420	--	8860	1340	7.6	23.5	--	8.6	14	42
13...		7258	--	1330	8.1	--	4	--	--	--
20...		6760	--	1360	8.2	--	3	--	--	--
21...	1045	--	7053	--	--	21.5	--	--	11	--
27...		6620	--	1380	8.2	--	2	--	--	--
NOV										
03...		8890	--	1410	8.2	--	1	--	--	--
10...		5280	--	1400	8.1	--	2	--	--	--
11...	1330	--	5770	1360	8.2	25.5	--	8.0	9	28
17...		6000	--	1370	8.2	--	2	--	--	--
24...		6060	--	1360	8.2	--	3	--	--	--
24...	1100	--	6110	--	--	13.0	--	--	12	--
DEC										
01...		4460	--	1460	8.1	--	4	--	--	--
08...		5940	--	1340	8.1	--	4	--	--	--
09...	1330	--	6130	1390	8.3	14.5	--	9.3	8	--
15...		6010	--	1400	8.2	--	5	--	--	--
22...		6640	--	1310	8.1	--	2	--	--	--
23...	1210	--	6310	--	--	13.5	--	--	33	--
29...		6610	--	1330	8.2	--	6	--	--	--
JAN										
05...		5020	--	1340	8.2	--	2	--	--	--
12...		5070	--	1410	8.3	--	3	--	--	--
14...	0930	--	5660	1360	8.3	10.0	--	9.4	15	84
19...		5710	--	1390	8.2	--	2	--	--	--
26...		5860	--	1330	8.1	--	6	--	--	--
27...	1100	--	6140	--	--	11.0	--	--	15	--
FEB										
02...		6440	--	1330	8.2	--	3	--	--	--
09...		4120	--	1350	8.1	--	4	--	--	--
11...	0915	--	4580	1340	8.2	15.0	--	8.6	9	70
16...		2950	--	1570	8.1	--	4	--	--	--
23...		6330	--	1380	8.2	--	4	--	--	--
24...	1100	--	7510	--	--	14.0	--	--	8	--
MAR										
01...		5910	--	1220	8.3	--	4	--	--	--
08...		9400	--	1240	8.2	--	8	--	--	--
10...	1110	--	9570	1310	8.2	16.0	--	9.5	15	812
15...		5730	--	1240	8.2	--	6	--	--	--
22...		11300	--	1220	8.2	--	6	--	--	--
23...	1130	--	11900	--	--	14.0	--	--	2	--
29...		12700	--	1220	8.1	--	4	--	--	--
APR										
05...		12060	--	1240	8.2	--	4	--	--	--
12...		12200	--	1230	8.2	--	8	--	--	--
14...	0855	--	9470	1260	7.9	17.0	--	9.0	5	36
19...		8380	--	1360	8.2	--	5	--	--	--
26...		12800	--	1220	8.2	--	3	--	--	--
27...	1035	--	13300	--	--	20.5	--	--	14	--
MAY										
03...		11500	--	1250	8.3	--	3	--	--	--
10...		8500	--	1320	8.2	--	11	--	--	--
12...	0920	--	9088	1300	8.2	25.0	--	7.9	2	38
17...		9340	--	1290	8.3	--	4	--	--	--
24...		9140	--	1260	8.3	--	2	--	--	--
25...	1030	--	9420	--	--	23.0	--	--	9	--
31...		8830	--	1290	8.1	--	3	--	--	--
JUN										
07...		8810	--	1270	8.3	--	2	--	--	--
09...	0945	--	9320	1290	8.1	24.5	--	8.1	16	20
14...		9430	--	1260	8.3	--	3	--	--	--
21...		9460	--	1280	8.3	--	2	--	--	--
28...		9530	--	1260	8.3	--	2	--	--	--
JUL										
05...		5720	--	1240	8.1	--	3	--	--	--
12...		10500	--	1220	8.3	--	5	--	--	--
14...	0915	--	11860	1280	8.1	27.5	--	7.6	3	--
19...		10700	--	1230	8.2	--	2	--	--	--
26...		10400	--	1220	8.2	--	3	--	--	--
27...	1010	--	9960	--	--	28.5	--	--	11	--
AUG										
02...		9810	--	1270	8.3	--	3	--	--	--
09...		11200	--	1230	8.1	--	3	--	--	--
11...	0930	--	11660	1200	8.0	27.5	--	7.7	21	860
16...		11200	--	1240	8.3	--	2	--	--	--
23...		11500	--	1230	8.3	--	3	--	--	--
24...	1045	--	11690	--	--	28.0	--	--	19	--
30...		10500	--	1230	8.3	--	3	--	--	--

B Results based on non-ideal colony count.

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

EXTREMES.--Current year:

Specific conductance: Maximum daily, 1,650 micromhos Feb. 19; minimum daily, 939 micromhos Sept. 26.
 Water temperatures: Maximum daily, 31.0°C July 29, 31, Aug. 1; minimum daily, 9.0°C Jan. 4.

Period of record:

Specific conductance: Maximum daily, 1,880 micromhos Nov. 21, 1969; minimum daily, 939 micromhos Sept. 26, 1976.
 Water temperatures: Maximum daily, 31.0°C Aug. 5, 1975, July 29, 31, Aug. 1, 1976; minimum daily, 9.0°C Dec. 26, 1974, Jan. 4, 1976.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA/MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	TOTAL CAL- CIUM (CA) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)
OCT									
06...	--	360	219	--	88	--	34	--	140
07...	--	350	210	--	89	--	32	--	140
07...	32	--	--	--	--	--	--	--	--
13...	--	365	222	--	94	--	32	--	145
20...	--	375	229	--	100	--	31	--	145
21...	--	--	--	--	--	--	--	--	--
27...	--	380	231	--	102	--	31	--	150
NOV									
03...	--	385	232	--	99	--	34	--	155
10...	--	380	231	--	102	--	31	--	155
11...	60	--	--	88	--	31	--	140	--
17...	--	375	224	--	98	--	32	--	150
24...	--	375	226	--	103	--	29	--	145
24...	--	--	--	--	--	--	--	--	--
DEC									
01...	--	395	236	--	106	--	32	--	160
08...	--	370	224	--	102	--	28	--	145
09...	--	330	180	--	79	--	32	--	150
15...	--	380	228	--	103	--	30	--	155
22...	--	365	224	--	94	--	32	--	140
23...	--	--	--	--	--	--	--	--	--
29...	--	365	219	--	100	--	28	--	145
JAN									
05...	--	370	224	--	101	--	29	--	145
12...	--	385	231	--	101	--	32	--	155
14...	22	370	220	--	95	--	33	--	150
19...	--	380	230	--	99	--	32	--	155
26...	--	365	220	--	95	--	31	--	145
27...	--	--	--	--	--	--	--	--	--
FEB									
02...	--	365	219	--	95	--	31	--	145
09...	--	375	226	--	96	--	33	--	145
11...	120	360	210	120	91	31	31	140	140
16...	--	420	252	--	111	--	35	--	180
23...	--	380	229	--	98	--	33	--	150
24...	--	--	--	--	--	--	--	--	--
MAR									
01...	--	355	216	--	91	--	31	--	125
08...	--	355	212	--	90	--	32	--	130
10...	810	370	230	--	95	--	33	--	130
15...	--	355	212	--	89	--	32	--	130
22...	--	355	212	--	90	--	32	--	125
23...	--	--	--	--	--	--	--	--	--
29...	--	355	210	--	90	--	32	--	125
APR									
05...	--	355	209	--	91	--	31	--	130
12...	--	355	212	--	90	--	32	--	125
14...	41	--	--	--	--	--	--	--	--
19...	--	375	218	--	98	--	32	--	150
26...	--	355	212	--	90	--	32	--	125
27...	--	--	--	--	--	--	--	--	--
MAY									
03...	--	360	212	--	91	--	32	--	130
10...	--	365	214	--	95	--	31	--	145
12...	26	--	--	93	--	32	--	130	--
17...	--	360	209	--	90	--	33	--	140
24...	--	365	216	--	92	--	33	--	130
25...	--	--	--	--	--	--	--	--	--
31...	--	360	211	--	90	--	33	--	140
JUN									
07...	--	365	214	--	91	--	34	--	135
09...	36	--	--	--	--	--	--	--	--
14...	--	365	216	--	91	--	34	--	130
21...	--	365	216	--	92	--	33	--	135
28...	--	360	214	--	90	--	33	--	130
JUL									
05...	--	355	212	--	90	--	32	--	130
12...	--	355	214	--	86	--	34	--	125
14...	--	--	--	--	--	--	--	--	--
19...	--	355	214	--	90	--	32	--	125
26...	--	355	212	--	87	--	34	--	125
27...	--	--	--	--	--	--	--	--	--
AUG									
02...	--	355	212	--	90	--	32	--	135
09...	--	355	216	--	88	--	33	--	125
11...	58	--	--	82	--	30	--	130	--
16...	--	355	214	--	87	--	34	--	130
23...	--	355	216	--	86	--	34	--	125
24...	--	--	--	--	--	--	--	--	--
30...	--	355	216	--	86	--	34	--	125

B Results based on non-ideal colony count.

COLORADO RIVER MAIN STEM

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SODIUM AU- SORP- TION MATIC	TOTAL PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)
OCT									
06...	3.2	--	5.9	172	0	345	118	.5	10
07...	3.2	--	5.3	172	--	340	130	.3	8.8
07...	--	--	--	--	--	--	--	--	--
13...	3.3	--	5.6	174	0	350	125	.5	9.0
20...	3.2	--	6.3	178	0	355	130	.5	8.0
21...	--	--	--	--	--	--	--	--	--
27...	3.3	--	5.6	182	0	360	132	.6	10
NOV									
03...	3.4	--	5.6	186	0	365	139	.6	11
10...	3.4	--	5.6	182	0	365	135	.5	9.0
11...	--	4.7	--	--	--	--	--	--	--
17...	3.4	--	5.2	184	0	355	130	.5	10
24...	3.3	--	5.4	182	0	350	132	.5	10
24...	--	--	--	--	--	--	--	--	--
DEC									
01...	3.5	--	5.2	194	0	380	140	.5	9.0
08...	3.3	--	5.0	178	0	350	128	.5	10
09...	3.6	--	5.3	178	--	340	130	.4	9.2
15...	3.5	--	5.4	186	0	365	135	.5	10
22...	3.2	--	5.2	172	0	345	122	.5	10
23...	--	--	--	--	--	--	--	--	--
29...	3.3	--	5.2	178	0	345	125	.5	10
JAN									
05...	3.3	--	5.4	178	0	350	128	.4	8.0
12...	3.4	--	5.4	188	0	365	140	.5	7.0
14...	3.4	--	5.3	181	--	360	140	.4	8.9
19...	3.5	--	5.6	186	0	360	135	.5	9.0
26...	3.3	--	5.6	176	0	345	128	.4	9.0
27...	--	--	--	--	--	--	--	--	--
FEB									
02...	3.3	--	5.2	178	0	345	126	.4	10
09...	3.3	--	5.0	182	0	350	131	.4	9.0
11...	3.2	4.8	5.0	181	--	340	130	.4	8.8
16...	3.8	--	5.4	204	0	390	170	.5	10
23...	3.3	--	5.0	184	0	360	132	.6	8.9
24...	--	--	--	--	--	--	--	--	--
MAR									
01...	2.9	--	5.2	170	0	330	105	.4	10
08...	3.0	--	5.0	174	0	330	108	.5	8.0
10...	2.9	--	5.2	179	--	330	120	.4	8.9
15...	3.0	--	5.4	174	0	330	109	.5	8.8
22...	2.9	--	5.4	174	0	330	102	.5	9.1
23...	--	--	--	--	--	--	--	--	--
29...	2.9	--	5.2	176	0	330	102	.5	8.6
APR									
05...	3.0	--	5.2	178	0	330	108	.5	8.2
12...	2.9	--	5.6	174	0	330	105	.5	6.8
14...	--	--	--	--	--	--	--	--	--
19...	3.4	--	5.6	192	0	350	131	.5	6.8
26...	2.9	--	5.2	174	0	330	102	.4	6.0
27...	--	--	--	--	--	--	--	--	--
MAY									
03...	3.0	--	4.8	180	0	335	110	.4	6.2
10...	3.3	--	5.0	184	0	345	124	.5	6.5
12...	--	5.8	--	--	--	--	--	--	--
17...	3.2	--	5.6	184	0	340	118	.6	5.5
24...	3.0	--	5.5	182	0	335	112	.5	7.2
25...	--	--	--	--	--	--	--	--	--
31...	3.2	--	5.3	182	0	340	118	.5	7.5
JUN									
07...	3.1	--	5.6	184	0	335	114	.5	7.2
09...	--	--	--	--	--	--	--	--	--
14...	3.0	--	5.4	182	0	335	112	.5	7.5
21...	3.1	--	5.0	182	0	340	114	.4	9.0
28...	3.0	--	5.4	178	0	335	112	.5	8.8
JUL									
05...	3.0	--	5.7	174	0	330	110	.5	7.5
12...	2.9	--	5.7	172	0	330	105	.5	7.5
14...	--	--	5.4	--	--	--	--	--	--
19...	2.9	--	5.7	172	0	330	108	.4	8.0
26...	2.9	--	5.8	174	0	330	105	.4	8.0
27...	--	--	--	--	--	--	--	--	--
AUG									
02...	3.1	--	5.6	174	0	335	115	.5	9.5
09...	2.9	--	5.6	170	0	330	109	.4	9.0
11...	--	4.6	--	--	--	--	--	--	--
16...	3.0	--	6.0	172	0	330	111	.4	8.0
23...	2.9	--	5.7	170	0	330	119	.5	8.0
24...	--	--	--	--	--	--	--	--	--
30...	2.9	--	5.3	170	0	330	108	.5	9.5

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
OCT									
06...	832	--	827	1.13	--	.07	--	--	--
07...	--	--	831	1.13	--	--	--	180	0
07...	--	--	--	--	0	--	.00	170	--
13...	846	--	848	1.15	--	.11	--	--	--
20...	878	--	864	1.19	--	--	--	--	--
21...	--	--	--	--	24	--	--	--	--
27...	886	--	881	1.20	--	--	--	--	--
NOV									
03...	900	--	901	1.22	--	.14	--	--	--
10...	892	--	893	1.21	--	--	--	--	--
11...	--	--	--	--	3	--	.00	190	0
17...	872	--	873	1.19	--	.34	--	--	--
24...	880	--	867	1.20	--	.38	--	--	--
24...	--	--	--	--	11	.21	.03	190	--
DEC									
01...	940	--	930	1.28	--	.23	--	--	--
08...	860	--	858	1.17	--	.25	--	--	--
09...	--	--	835	1.14	10	--	.01	160	0
15...	906	--	897	1.23	--	.29	--	--	--
22...	846	--	834	1.15	--	.09	--	--	--
23...	--	--	--	--	13	.17	.01	190	--
29...	852	--	848	1.16	--	.29	--	--	--
JAN									
05...	868	--	857	1.18	--	.41	--	--	--
12...	934	--	900	1.27	--	.18	--	--	--
14...	--	970	883	1.20	5	.16	.01	200	0
19...	898	--	890	1.22	--	.41	--	--	--
26...	864	--	848	1.18	--	.34	--	--	--
27...	--	--	--	--	12	--	--	--	--
FEB									
02...	844	--	846	1.15	--	.18	--	--	--
09...	864	--	860	1.18	--	.20	--	--	--
11...	--	--	837	1.14	14	--	.01	160	10
16...	1010	--	1000	1.37	--	.29	--	--	--
23...	906	--	879	1.23	--	.11	--	--	--
24...	--	--	--	--	7	--	--	--	--
MAR									
01...	780	--	782	1.06	--	.14	--	--	--
08...	788	--	791	1.07	--	.34	--	--	--
10...	--	--	812	1.10	27	.24	.01	160	10
15...	796	--	791	1.08	--	.16	--	--	--
22...	778	--	781	1.06	--	.23	--	--	--
23...	--	--	--	--	24	--	--	--	--
29...	782	--	782	1.06	--	.32	--	--	--
APR									
05...	794	--	793	1.08	--	.23	--	--	--
12...	780	--	783	1.06	--	.41	--	--	--
14...	--	--	--	--	16	--	.00	170	--
19...	870	--	870	1.18	--	.25	--	--	--
26...	778	--	777	1.06	--	.16	--	--	--
27...	--	--	--	--	25	--	--	--	--
MAY									
03...	796	--	799	1.08	--	.18	--	--	--
10...	838	--	844	1.14	--	.29	--	--	--
12...	--	--	--	--	22	--	.00	170	0
17...	822	--	824	1.12	--	.11	--	--	--
24...	806	--	806	1.10	--	.25	--	--	--
25...	--	--	--	--	23	--	--	--	--
31...	828	--	825	1.13	--	.11	--	--	--
JUN									
07...	810	--	814	1.10	--	.20	--	--	--
09...	--	--	--	--	17	--	.00	160	--
14...	802	--	806	1.09	--	.23	--	--	--
21...	824	--	819	1.12	--	.18	--	--	--
28...	804	--	803	1.09	--	.14	--	--	--
JUL									
05...	790	--	792	1.07	--	.14	--	--	--
12...	786	--	779	1.07	--	.11	--	--	--
14...	--	840	--	--	3	--	.00	170	--
19...	784	--	785	1.07	--	.11	--	--	--
26...	782	--	782	1.06	--	.09	--	--	--
27...	--	--	--	--	14	--	--	--	--
AUG									
02...	808	--	809	1.10	--	.09	--	--	--
09...	790	--	784	1.07	--	.11	--	--	--
11...	--	--	--	--	4	.13	.01	170	10
16...	790	--	792	1.07	--	.09	--	--	--
23...	780	--	783	1.06	--	.11	--	--	--
24...	--	--	--	--	13	--	--	--	--
30...	784	--	783	1.07	--	.09	--	--	--

COLORADO RIVER MAIN STEM

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DIS-CHARGE (CFS)	INSTANTANEOUS DIS-CHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DIS-SOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
SFP											
06...	--	8840	--	1250	8.3	--	5	--	--	--	--
13...	--	3930	--	1400	8.3	--	5	--	--	--	--
15...	1030	--	4490	1580	8.1	27.5	--	8.0	9	31	79
20...	--	6420	--	1380	8.3	--	24	--	--	--	--
27...	--	10130	--	1070	8.1	--	120	--	--	--	--
28...	1015	--	5590	--	--	26.5	--	--	9	--	--

DATE	HARDNESS (CA, MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
SFP										
06...	360	219	90	33	130	3.0	5.2	172	0	335
13...	370	214	92	34	160	3.6	5.2	190	0	360
15...	--	--	--	--	--	--	--	--	--	--
20...	375	219	94	34	155	3.5	5.8	190	0	355
27...	298	164	85	21	112	2.8	6.7	164	0	255
28...	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL NON-FILTERABLE RESIDUE (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED ORTHO-PHOSPHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)
SFP										
06...	110	.5	8.5	800	798	1.09	--	.11	--	--
13...	135	.4	9.0	890	891	1.21	--	.23	--	--
15...	--	--	--	--	--	--	0	--	.01	240
20...	135	.5	9.8	882	885	1.20	--	.34	--	--
27...	105	.4	8.0	676	678	.92	--	.79	--	--
28...	--	--	--	--	--	--	265	--	--	--

DATE	TIME	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
SFP											
27...	--	--	.79	--	--	--	--	--	--	--	--
28...	1015	.98	--	.02	1.0	.04	1.2	1.2	2.2	9.7	.36

COLORADO RIVER MAIN STEM

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRATE PLUS NITRITE (N) (MG/L)	DIS-SOLVED NITRATE PLUS NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)
OCT								
06...	--	--	.07	--	--	--	--	--
07...	1420	.10	--	.00	.00	.10	.10	.03
13...	--	--	.11	--	--	--	--	--
21...	1045	.09	--	.01	--	.10	--	.01
NOV								
03...	--	--	.14	--	--	--	--	--
11...	1330	.15	--	.01	.01	.16	.16	.04
17...	--	--	.34	--	--	--	--	--
24...	--	--	.38	--	--	--	--	--
24...	1100	.21	.21	.01	.01	.22	.22	.02
DEC								
01...	--	--	.23	--	--	--	--	--
08...	--	--	.25	--	--	--	--	--
09...	1330	.18	--	.01	.01	.19	.19	.04
15...	--	--	.24	--	--	--	--	--
22...	--	--	.09	--	--	--	--	--
23...	1210	.17	.17	.00	.00	.17	.17	.03
29...	--	--	.29	--	--	--	--	--
JAN								
05...	--	--	.41	--	--	--	--	--
12...	--	--	.14	--	--	--	--	--
14...	0930	.18	.16	.00	.01	.18	.15	.01
19...	--	--	.41	--	--	--	--	--
26...	--	--	.34	--	--	--	--	--
27...	1130	.20	--	.01	--	.21	--	.02
FEB								
02...	--	--	.13	--	--	--	--	--
09...	--	--	.20	--	--	--	--	--
11...	0915	.26	--	.01	.01	.27	.26	.01
16...	--	--	.29	--	--	--	--	--
23...	--	--	.11	--	--	--	--	--
24...	1100	.19	--	.01	--	.20	--	.01
MAR								
01...	--	--	.14	--	--	--	--	--
08...	--	--	.34	--	--	--	--	--
10...	1110	.23	.24	.01	.00	.24	4.6	.02
15...	--	--	.16	--	--	--	--	--
22...	--	--	.23	--	--	--	--	--
23...	1130	.27	--	.01	--	.28	--	.02
29...	--	--	.32	--	--	--	--	--
APR								
05...	--	--	.23	--	--	--	--	--
12...	--	--	.41	--	--	--	--	--
14...	0855	.24	--	.00	.01	.24	.25	.00
19...	--	--	.25	--	--	--	--	--
26...	--	--	.16	--	--	--	--	--
27...	1035	.13	--	.01	--	.14	--	.03
MAY								
03...	--	--	.18	--	--	--	--	--
10...	--	--	.29	--	--	--	--	--
12...	0920	.22	--	.00	.01	.22	.22	.02
17...	--	--	.11	--	--	--	--	--
24...	--	--	.25	--	--	--	--	--
25...	1030	.11	--	.01	--	.12	--	.00
31...	--	--	.11	--	--	--	--	--
JUN								
07...	--	--	.20	--	--	--	--	--
09...	0845	.15	--	.01	.01	.16	.16	.01
14...	--	--	.23	--	--	--	--	--
21...	--	--	.18	--	--	--	--	--
28...	--	--	.14	--	--	--	--	--
JUL								
05...	--	--	.14	--	--	--	--	--
12...	--	--	.11	--	--	--	--	--
14...	0915	.11	--	.00	.00	.11	.10	.01
19...	--	--	.11	--	--	--	--	--
26...	--	--	.09	--	--	--	--	--
27...	1010	.13	--	.00	--	.13	--	.00
AUG								
02...	--	--	.09	--	--	--	--	--
09...	--	--	.11	--	--	--	--	--
11...	0930	.14	.13	.01	.00	.15	.13	.00
16...	--	--	.09	--	--	--	--	--
23...	--	--	.11	--	--	--	--	--
24...	1045	.07	--	.00	--	.07	--	.00
30...	--	--	.09	--	--	--	--	--
SEP								
06...	--	--	.11	--	--	--	--	--
13...	--	--	.23	--	--	--	--	--
15...	1030	.06	--	.00	.00	.06	.08	.00
20...	--	--	.34	--	--	--	--	--

COLORADO RIVER MAIN STEM

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJFL - DAHL- NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L)
OCT							
06...	--	--	--	--	--	--	--
07...	.27	.30	.40	1.8	.02	--	.00
13...	--	--	--	--	--	--	--
21...	.44	.45	.55	2.4	.00	--	--
NOV							
03...	--	--	--	--	--	--	--
11...	.26	.30	.46	2.0	.01	.00	.00
17...	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--
24...	.46	.48	.70	3.1	.00	--	.03
DEC							
01...	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--
09...	.29	.32	.51	2.3	.00	--	.01
15...	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--
23...	.14	.17	.34	1.5	.02	--	.01
24...	--	--	--	--	--	--	--
JAN							
05...	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--
14...	.57	.58	.76	3.4	.00	--	.01
19...	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--
27...	.45	.47	.68	3.0	.00	--	--
FEH							
02...	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--
11...	.52	.53	.80	3.5	.03	.00	.01
16...	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--
24...	.20	.21	.41	1.8	.02	--	--
MAR							
01...	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--
10...	.45	.47	.71	3.1	.03	--	.01
15...	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--
23...	.45	.47	.75	3.3	.05	--	--
29...	--	--	--	--	--	--	--
APR							
05...	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--
14...	.33	.33	.57	2.5	.17	--	.00
19...	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--
27...	.39	.42	.56	2.5	.05	--	--
MAY							
03...	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--
12...	.31	.33	.55	2.4	.05	.02	.00
17...	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--
25...	.40	.40	.52	2.3	.01	--	--
31...	--	--	--	--	--	--	--
JUN							
07...	--	--	--	--	--	--	--
09...	.63	.64	.80	3.5	.13	--	.00
14...	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--
JUL							
05...	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--
14...	.02	.03	.14	.62	.03	--	.00
19...	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--
27...	.41	.41	.54	2.4	.03	--	--
AUG							
02...	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--
11...	.24	.24	.39	1.7	.02	.01	.01
16...	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--
24...	.64	.64	.71	3.1	.02	--	--
30...	--	--	--	--	--	--	--
SEP							
06...	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--
15...	.51	.51	.57	2.5	.01	--	.01
20...	--	--	--	--	--	--	--

COLORADO RIVER MAIN STEM

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

WATER QUALITY DATA WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED HORMON (H) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)
OCT								
07...	1420	--	--	170	--	--	--	--
21...	1045	--	--	--	--	--	--	--
NOV								
11...	1330	2	2	190	10	2	6	0
24...	1100	--	--	190	--	--	--	--
DEC								
09...	1330	--	--	160	--	--	--	--
23...	1210	--	--	190	--	--	--	--
JAN								
14...	0930	--	--	200	--	--	--	--
27...	1100	--	--	--	--	--	--	--
FEB								
11...	0915	3	3	160	<10	0	0	0
24...	1100	--	--	--	--	--	--	--
MAR								
10...	1110	--	--	160	--	--	--	--
23...	1130	--	--	--	--	--	--	--
APR								
14...	0855	--	--	170	--	--	--	--
27...	1035	--	--	--	--	--	--	--
MAY								
12...	0920	4	3	170	<10	0	0	0
25...	1030	--	--	--	--	--	--	--
JUN								
09...	0845	--	--	160	--	--	--	--
JUL								
14...	0915	--	--	170	--	--	--	--
27...	1010	--	--	--	--	--	--	--
AUG								
11...	0930	2	2	170	<10	0	10	0
24...	1045	--	--	--	--	--	--	--
SEP								
15...	1030	--	--	240	--	--	--	--
28...	1015	--	--	--	--	--	--	--

DATE	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
OCT									
07...	--	--	--	--	240	--	--	--	--
21...	--	--	--	--	230	--	--	--	--
NOV									
11...	<50	0	10	9	200	0	>200	8	40
24...	--	--	--	--	210	--	--	--	--
DEC									
09...	--	--	--	--	180	0	--	--	--
23...	--	--	--	--	360	--	--	--	--
JAN									
14...	--	--	--	--	210	0	--	--	--
27...	--	--	--	--	250	--	--	--	--
FEB									
11...	<50	1	10	1	250	10	<100	1	40
24...	--	--	--	--	360	--	--	--	--
MAR									
10...	--	--	--	--	540	10	--	--	--
23...	--	--	--	--	830	--	--	--	--
APR									
14...	--	--	--	--	330	--	--	--	--
27...	--	--	--	--	450	--	--	--	--
MAY									
12...	<50	0	10	2	620	0	<100	0	80
25...	--	--	--	--	450	--	--	--	--
JUN									
09...	--	--	--	--	320	--	--	--	--
JUL									
14...	--	--	--	--	250	--	--	--	--
27...	--	--	--	--	620	--	--	--	--
AUG									
11...	<50	0	10	0	330	10	<100	1	40
24...	--	--	--	--	230	--	--	--	--
SEP									
15...	--	--	--	--	220	--	--	--	--
28...	--	--	--	--	6200	--	--	--	--

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

COLORADO RIVER MAIN STEM

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SF) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 07...	--	--	--	--	--	--	--	3.1
21...	--	--	--	--	--	--	--	4.4
NOV 11...	10	.1	.0	2	4	40	10	6.5
24...	--	--	--	--	--	--	--	--
DEC 09...	--	--	--	--	--	--	--	3.7
23...	--	--	--	--	--	--	--	3.6
JAN 14...	--	--	--	--	--	--	--	4.3
27...	--	--	--	--	--	--	--	4.2
FEB 11...	10	.1	.0	2	2	10	0	3.7
24...	--	--	--	--	--	--	--	7.0
MAR 10...	--	--	--	--	--	--	--	3.7
23...	--	--	--	--	--	--	--	3.8
APR 14...	--	--	--	--	--	--	--	3.9
27...	--	--	--	--	--	--	--	4.3
MAY 12...	0	.0	.0	3	3	80	10	3.8
25...	--	--	--	--	--	--	--	4.0
JUN 09...	--	--	--	--	--	--	--	2.2
JUL 14...	--	--	--	--	--	--	--	21
27...	--	--	--	--	--	--	--	4.2
AUG 11...	0	.0	.0	3	3	20	0	3.9
24...	--	--	--	--	--	--	--	3.4
SEP 15...	--	--	--	--	--	--	--	38
28...	--	--	--	--	--	--	--	8.0

DATE	TIME	DIS-SOLVED GROSS ALPHA U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (DIRECT FLUOROMETRIC) (PC/L)
JAN 14...	0930	53	<.4	27	1.3	22	1.2	.17	4.1
JUL 14...	0915	25	<.4	9.6	<.4	7.6	<.4	13	4.0

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ALDRIN (UG/L)	TOTAL CHLOR-DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DIZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL FTHION (UG/L)	TOTAL HEPTA-CHLOR (UG/L)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)
07...	1420	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
08...												
11...	1320	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
09...	1330	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
14...	0930	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
11...	0915	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
10...	1110	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
14...	0855	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
12...	0920	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
09...	0845	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
14...	0915	--	--	--	--	--	.00	--	--	.00	--	--
11...	0930	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
15...	1030	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL LINDANE (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL METHYL THI-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL TOX-APHENE (UG/L)	TOTAL THI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)	TOTAL PCH (UG/L)
07...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00	.0
08...											
11...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00	.0
09...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00	.0
14...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00	.0
11...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00	.0
10...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00	.0
14...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00	.0
12...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00	.0
09...	.00	--	.00	.00	.00	0	.00	.00	.00	.00	.0
14...	--	.00	.00	.00	.00	--	.00	.08	.01	.00	--
11...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00	.0
15...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00	.0

COLORADO RIVER MAIN STEM

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

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 1230

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.5	20.0	12.0	11.0	15.0	16.5	18.5	22.0	26.0	30.0	31.0	30.0
2	26.5	20.0	13.5	9.5	15.0	16.5	18.5	23.5	26.5	29.0	30.0	29.0
3	26.5	20.0	13.5	9.5	14.5	15.5	19.0	23.5	26.5	29.0	29.0	29.0
4	26.5	20.0	14.5	9.0	14.5	15.0	19.0	23.0	26.5	29.0	29.0	29.5
5	26.5	20.0	15.0	10.0	15.0	14.5	18.5	23.5	26.5	29.0	29.0	29.5
6	26.5	20.0	15.0	11.0	15.0	15.0	18.5	22.0	26.5	30.0	29.0	29.0
7	25.0	20.0	15.0	11.0	15.0	15.0	19.0	22.0	26.5	30.0	29.5	28.5
8	24.0	20.0	15.0	11.0	16.0	15.5	19.5	22.0	26.5	30.5	29.5	29.0
9	24.0	19.5	15.0	11.0	16.5	16.0	19.5	23.5	26.5	30.5	29.5	28.5
10	24.0	19.0	14.5	10.5	16.5	16.5	20.0	24.5	25.5	30.0	29.5	28.0
11	24.5	18.5	15.0	11.5	15.5	16.5	20.0	24.5	25.5	30.0	30.0	27.0
12	23.5	17.0	15.0	12.0	16.0	16.0	20.0	25.5	25.5	29.5	29.5	28.0
13	23.0	16.5	15.0	11.5	16.0	15.5	20.0	26.0	26.5	30.5	29.0	28.5
14	22.0	16.0	14.0	12.0	16.5	16.5	19.5	26.5	26.5	29.5	26.5	29.0
15	21.5	16.0	12.0	11.5	16.5	16.5	18.5	26.5	26.5	29.5	27.0	29.0
16	21.5	16.5	11.5	13.0	16.5	16.5	17.0	26.5	26.5	29.5	26.5	28.0
17	21.5	16.5	11.5	13.5	17.0	17.0	16.5	26.5	26.5	29.0	28.0	28.0
18	23.0	16.5	13.5	14.0	17.0	16.5	18.0	26.5	27.0	29.0	27.0	28.0
19	23.0	15.0	12.0	14.5	18.5	16.5	18.5	26.5	28.5	29.0	27.0	28.0
20	23.0	15.5	11.5	13.5	16.5	16.5	20.5	26.0	29.5	29.5	27.0	27.0
21	23.0	15.0	13.0	13.5	15.5	16.0	21.0	26.0	29.5	29.5	28.0	27.0
22	23.5	15.0	13.5	13.5	15.0	16.5	20.5	26.0	29.0	29.0	29.0	27.0
23	21.0	15.0	14.5	13.5	15.0	18.0	21.0	26.0	28.0	29.5	29.5	27.0
24	20.0	14.5	14.0	14.0	15.0	18.5	21.5	25.5	27.0	30.0	30.5	25.5
25	19.0	15.0	14.5	14.0	16.0	18.5	21.5	25.0	28.0	30.0	30.0	25.5
26	18.0	14.5	13.5	14.0	16.0	18.5	21.5	25.5	28.5	30.5	30.0	25.0
27	18.5	14.5	13.5	13.0	16.5	18.0	22.0	26.0	29.5	30.5	30.0	26.0
28	20.0	14.5	13.0	13.0	16.5	18.0	21.5	26.0	30.0	30.5	30.5	27.0
29	21.0	13.0	12.0	13.0	17.0	18.0	21.5	25.5	30.5	31.0	30.5	27.0
30	21.0	13.0	13.0	12.0	---	18.0	22.0	26.5	30.0	30.0	30.5	27.0
31	20.0	---	11.0	14.0	---	18.0	---	25.5	---	31.0	30.5	---
MONTH	23.0	17.0	13.5	12.0	16.0	16.5	20.0	25.0	27.5	30.0	29.0	28.0
YEAR	MAX	31.0	MIN	9.0	MEAN	21.5						

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1280	1360	1490	1420	1330	1220	1250	1280	1290	1260	1280	1220
2	1290	1400	1470	1380	1320	1220	1240	1240	1290	1250	1270	1240
3	1310	1410	1450	1350	1300	1230	1250	1250	1290	1270	1240	1260
4	1310	1390	1450	1320	1280	1200	1230	1240	1310	1270	1240	1260
5	1330	1400	1430	1340	1280	1220	1230	1240	1300	1240	1240	1260
6	1300	1370	1370	1310	1300	1250	1230	1240	1310	1240	1260	1240
7	1290	1340	1360	1320	1300	1230	1210	1270	1280	1250	1270	1210
8	1290	1380	1330	1350	1340	1250	1250	1280	1270	1250	1260	1230
9	1300	1430	1240	1360	1360	1250	1250	1290	1280	1260	1230	1300
10	1330	1400	1220	1390	1340	1250	1260	1310	1280	1290	1220	1370
11	1340	1380	1280	1420	1360	1250	1250	1330	1300	1250	1230	1350
12	1350	1370	1350	1410	1390	1270	1230	1290	1330	1220	1230	1350
13	1330	1370	1360	1410	1520	1280	1250	1270	1290	1230	1240	1420
14	1330	1420	1390	1380	1580	1280	1230	1290	1250	1240	1240	1540
15	1330	1430	1410	1390	1630	1240	1250	1310	1250	1230	1240	1630
16	1360	1420	1370	1410	1550	1250	1330	1300	1260	1260	1240	1510
17	1370	1370	1320	1440	1550	1230	1360	1280	1250	1270	1240	1460
18	1390	1340	1310	1440	1610	1230	1390	1280	1290	1250	1230	1450
19	1420	1330	1320	1370	1650	1240	1340	1280	1290	1230	1240	1470
20	1360	1390	1330	1340	1590	1250	1280	1240	1280	1230	1240	1370
21	1320	1370	1320	1340	1570	1220	1280	1270	1270	1230	1240	1340
22	1310	1360	1310	1320	1480	1220	1290	1300	1250	1240	1230	1280
23	1350	1400	1340	1330	1340	1220	1260	1290	1240	1240	1230	1280
24	1370	1360	1440	1360	1310	1220	1240	1260	1240	1240	1240	1150
25	1380	1350	1580	1380	1260	1210	1230	1270	1230	1230	1250	1040
26	1400	1400	1500	1340	1240	1220	1230	1290	1290	1220	1250	935
27	1380	1410	1340	1310	1260	1220	1260	1310	1270	1220	1280	1120
28	1360	1450	1350	1310	1230	1230	1230	1320	1250	1220	1270	1230
29	1360	1490	1340	1340	1240	1220	1230	1320	1250	1250	1240	1320
30	1350	1490	1350	1320	---	1230	1250	1310	1230	1280	1230	1380
31	1350	---	1380	1310	---	1240	---	1290	---	1280	1220	---
MONTH	1340	1390	1370	1360	1400	1240	1260	1280	1270	1250	1240	1310
YEAR	MAX	1650	MIN	935	MEAN	1310						

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

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

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll _a	Chlorophyll _b	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight	(mg/m ²)	(mg/m ²)		
Nov. 11	35	2.20	1.40	21.0	6.80	38	Polyethylene strip
Feb. 11	28	11.0	8.20	8.70	.000	320	Polyethylene strip
May 12	28	4.39	.923	2.05	.000	1700	Polyethylene strip
Sept. 15	35	3.08	1.15	2.70	.000	710	Polyethylene strip

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

OCT. 9, 1974
1200 HOURS

IDENTIFICATION OF PHYTOPLANKTON

8,800 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
•CHLOROPHYCEAE				
••CHLOROCOCCALES				
•••SCENEDESMACEAE				
••••CRUCIGENIA		180	2	
••••SCENEDESMUS		88	1	
••VOLVOCALES				
•••CHLAMYDOMONADACEAE				
••••CHLAMYDOMONAS				
TOTALS		180 440	2 5	1.522=DIVERSITY
CHRYSOPHYTA	DIATOMS			
•BACILLARIOPHYCEAE	CENTRIC			
••CENTRALES				
•••COSCINODISCAEAE				
••••CYCLOTELLA		1,100	13	
••PENNALES	PENNATE			
•••ACHNANTHACEAE				
L ••••ACHNANTHES			0	
••••COCCONEIS		88	1	
•••FRAGILARIACEAE				
••••FRAGILARIA		350	4	
•••NITZSCHIAEAE				
••••NITZSCHIA				
TOTALS		350 2,000	4 22	1.665=DIVERSITY
•CHRYSOPHYCEAE	YELLOW-BROWN ALGAE			
••CHRYSONADAEAE				
•••MALLONADACEAE				
L ••••MALLONAS			0	
TOTALS		44	0	0.000=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
•MYXOPHYCEAE	FILAMENTOUS			
••OSCILLATORIALES				
•••NOSTOCACEAE				
••••ANABAENA		440	5	
••••OSCILLATORIAEAE				
D ••••LYNGBYA				
TOTALS		5,900 6,400	67 72	0.362=DIVERSITY

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

COLORADO RIVER MAIN STEM

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

NOV. 5, 1974
1330 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,900 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
..CHLOROCOCCALES				
..OOCYSTACEAE				
...ANKISTRODESMUS		40	2	
...CLOSTERIOPSIS		40	2	
	TOTALS	79	4	1.000=DIVERSITY
CHRYSOPHYTA				
..BACILLARIOPHYCEAF	DIATOMS			
..CENTRALES	CENTRIC			
..COSCINODISCACEAE				
D ...CYCLOTELLA		560	29	
D ...MELOSIRA		600	31	
..PENNALES	PENNATE			
...ACHNANTHACEAE				
...COCCONEIS		79	4	
...FRAGILARIACEAE				
...SYNEDRA		79	4	
..NAVICULACEAE	NAVICULOID			
...NAVICULA		79	4	
...NITZSCHIACEAE				
D ...NITZSCHIA		360	19	
...SURIRELLACEAE				
...CYMATOPLEURA		40	2	
	TOTALS	1,800	93	2.238=DIVERSITY
EUGLENOPHYTA	EUGLENOIDS			
..EUGLENOPHYCEAE				
..EUGLENALES				
...EUGLENACEAE				
...EUGLENA		40	2	
	TOTALS	40	2	0.000=DIVERSITY

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

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DEC. 3, 1974
1300 HOURS

IDENTIFICATION OF PHYTOPLANKTON

970 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
...CHLOROCOCCALES				
...OOCYSTACEAE				
...CHLORELLA		80	8	
...SCENEDESMACEAE				
...ACTINASTRUM		27	3	
...TETRASTRUM		36	4	
..VOLVOCALES				
..CHLAMYDOMONADACEAE				
...CHLAMYDOMONAS				
	TOTALS	<u>44</u> 190	<u>5</u> 20	1.874=DIVERSITY
CHRYSOPHYTA				
..BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CENTRIC			
...COSCINODISCAEAE				
D ...CYCLOTELLA		280	29	
D ...MELOSIRA		230	24	
..PENNALES	PENNATE			
...FRAGILARIACEAE				
D ...SYNEORA		160	17	
...NAVICULACEAE	NAVICULOID			
...NAVICULA		18	2	
...NITZSCHIACEAE				
...NITZSCHIA				
	TOTALS	<u>71</u> 760	<u>7</u> 79	1.970=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
..MYXOPHYCEAE				
..OSCILLATORIALES	FILAMENTOUS			
...OSCILLATORIAEAE				
...SPIRULINA				
	TOTALS	<u>9</u> 9	<u>1</u> 1	0.000=DIVERSITY
EUGLENOPHYTA	EUGLENOIDS			
..EUGLENOPHYCEAE				
..EUGLENALES				
...EUGLENACEAE				
...EUGLENA				
	TOTALS	<u>9</u> 9	<u>1</u> 1	0.000=DIVERSITY

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%

COLORADO RIVER MAIN STEM

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

JAN. 7, 1975

1330 HOURS

IDENTIFICATION OF PHYTOPLANKTON

180 CELLS/ML

ORGANISM_NAME	COMMON_NAME	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
.CHLOROPHYCEAE				
..CHLOROCOCCALES				
...SCENEDESMACEAE				
....SCENEDESMUS		16	9	
..VOLVOCALES				
...CHLAMYDOMONADACEAE				
....CHLAMYDOMONAS				
TOTALS		4	2	0.722=DIVERSITY
		20	11	
CHRYSTOPHYTA	DIATOMS			
.BACILLARIOPHYCEAE	CENTRIC			
..CENTRALES				
...COSCINODISCEAE				
D ...CYCLOTELLA		53	29	
..PENNALES	PENNATE			
...ACHNANTHACEAE				
...COCCONEIS		20	11	
...NAVICULACEAE	NAVICULOID			
...AMPHIPRORA		8	4	
...GYROSIGMA		4	2	
D ...NAVICULA		41	22	
...NITZSCHIACEAE				
D ...NITZSCHIA				
TOTALS		29	16	2.233=DIVERSITY
		160	84	
.CHRYSOPHYCEAE	YELLOW-BROWN ALGAE			
..CHRYSOMONADALES				
...OCHROMONADACEAE				
...DINORRYON				
TOTALS		4	2	0.000=DIVERSITY
		4	2	
PYRRHOPHYTA	FIRE ALGAE			
.DINOPHYCEAE	DINOFLAGELLATES			
..PERIDINIALES				
...GLENODINIACEAE				
....GLENODINIUM				
TOTALS		4	2	0.000=DIVERSITY
		4	2	

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

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

FEB. 11, 1975
1345 HOURS

IDENTIFICATION OF PHYTOPLANKTON

4,400 CELLS/ML

ORGANISM__NAME_____	COMMON__NAME_____	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
.CHLOROPHYCEAE				
..CHLOROCOCCALES				
...OOCYSTACEAE				
...CHLORELLA		40	1	
...SCENEDESMACEAE				
...SCENEDESMUS				
TOTALS		<u>320</u> 360	<u>7</u> 8	0.503=DIVERSITY
CHRYSOPHYTA				
.BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CENTRIC			
...COSCINODISCACEAE				
...CYCLOTELLA		160	4	
..PENNALES	PENNATE			
...DIATOMACEAE				
...DIATOMA		40	1	
...FRAGILARIACEAE				
...SYNEDRA		160	4	
...NITZSCHIACEAE				
...NITZSCHIA				
TOTALS		<u>81</u> 440	<u>2</u> 11	1.823=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
.MYXOPHYCEAE				
..OSCILLATORIALES	FILAMENTOUS			
...OSCILLATORIA				
TOTALS		<u>3,600</u> 3,600	<u>82</u> 82	0.000=DIVERSITY

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

COLORADO RIVER MAIN STEM

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

MAR. 11, 1975
1235 HOURS

IDENTIFICATION OF PHYTOPLANKTON

9,500 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
...CHLOROCOCCALES				
...OOCYSTACEAE				
....ANKISTRODESMUS		50	1	
...SCENEDESMACEAF				
....SCENEDESMUS				
TOTALS		300	3	0.592=DIVERSITY
		350	4	
CHRYSTOPHYTA				
..BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CENTRIC			
...COSINODISCACEAE				
....CYCLOTELLA		910	10	
....MELOSIRA		750	8	
..PENNALES	PENNATE			
...NAVICULACEAE	NAVICULOID			
....FRUSTULIA		50	1	
....NAVICULA		200	2	
...NITZSCHIACEAE				
....NITZSCHIA		200	2	
TOTALS		2,100	23	1.829=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
..MYXOPHYCEAE				
...OSCILLATORIALES	FILAMENTOUS			
....OSCILLATORIA		250	3	
....LYNGBYA		6,700	71	
D		7,000	74	0.224=DIVERSITY
EUGLENOPHYTA	EUGLENOIDS			
..EUGLENOPHYCEAE				
..EUGLENALES				
...EUGLENACEAE				
....TRACHELOMONAS		50	1	
TOTALS		50	1	0.000=DIVERSITY

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

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

APR. 8, 1975
1400 HOURS

IDENTIFICATION OF PHYTOPLANKTON

2,700 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT	
CHLOROPHYTA	GREEN ALGAE			
.CHLOROPHYCEAE				
..CHLOROCOCCALFS				
...OOCYSTACEAE				
....ANKISTRODESMUS		100	4	
...SCENEDESMACEAE				
....SCENEDESMUS		210	8	
..VOLVOCALFS				
...CHLAMYDOMONADACEAF				
....CHLAMYDOMONAS				
	TOTALS	<u>52</u> 360	<u>2</u> 14	1.379=DIVERSITY
CHRYSOPHYTA				
.BACILLARIOPHYCEAF	DIATOMS			
..CFNTRALES	CFNTRIC			
...COSCINODISCAFAF				
D ...CYCLOTELLA		880	33	
D ...MELOSIRA		940	35	
..PFNNALS	PFNNATE			
...ACHNANTHACEAF				
....ACHNANTHES		52	2	
...FRAGILARIACEAE				
....FRAGILARIA		100	4	
...NAVICULACEAE	NAVICULOID			
....NAVICULA		100	4	
...NITZSCHFACEAE				
....NITZSCHIA				
	TOTALS	<u>250</u> 2,300	<u>10</u> 88	1.933=DIVERSITY

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

COLORADO RIVER MAIN STEM

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

MAY 6, 1975
1345 HOURS

IDENTIFICATION OF PHYTOPLANKTON

2,300 CELLS/ML

_ORGANISM__NAME _____	_COMMON__NAME_____	CELLS/ML	PER_CENT	
CHRYSTOPHYTA				
•BACILLARIOPHYCEAE	DIATOMS			
••CENTRALES	CENTRIC			
•••COSCINODISCACEAE				
D ••••CYCLOTFLLA		1,200	53	
••••MELOSIRA		66	3	
••PENNALFS	PFNNATE			
••ACHNANTHACEAE				
•••COCCONEIS		66	3	
••CYMBELLACEAE				
•••CYMBELLA		130	6	
•••DIATOMACEAE				
•••DIATOMA		66	3	
••FRAGILARIACEAE				
•••FRAGILARIA		200	9	
••GOMPHONFMATAACEAE				
•••GOMPHONEMA		66	3	
••NAVICULACEAE	NAVICULOID			
•••NAVICULA		200	9	
••NITZSCHIAACEAE				
•••NITZSCHIA				
	TOTALS	<u>200</u> 2,200	<u>9</u> 98	2.277=DIVERSITY
•CHRYSTOPHYCEAE	YFELLOW-BROWN ALGAE			
••CHRYSONOMADALES				
•••OC-HROMONADACEAE				
••••DINOBRYON				
	TOTALS	<u>66</u> 66	<u>3</u> 3	0.000=DIVERSITY

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

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

JUNE 10, 1975
1335 HOURS

IDENTIFICATION OF PHYTOPLANKTON

410 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
...CHLOROCOCCALES				
...CHARACIACEAE				
...SCHROEDERIA		15	4	
...SCENEDESMACEAE				
...SCENEDESMUS		45	11	
...VOLVOCALES				
...CHLAMYDOMONADACEAE				
...CHLAMYDOMONAS				
TOTALS		<u>15</u> 75	<u>4</u> 19	1.371=DIVERSITY
CHRYSOPHYTA				
..BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CENTRIC			
...COSCINODISCAEAE				
...CYCLOTELLA		30	7	
..PENNALES	PENNATE			
...DIATOMACEAE				
...DIATOMA		15	4	
...FRAGILARIACEAE				
...SYNEDRA		30	7	
...NAVICULACEAE	NAVICULOID			
...MASTOGLAIA		45	11	
D ...NAVICULA		120	30	
...NITZSCHACEAE				
D ...NITZSCHIA				
TOTALS		<u>90</u> 330	<u>22</u> 81	2.266=DIVERSITY

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

COLORADO RIVER MAIN STEM

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

OCT. 7, 1975
1420 HOURS

IDENTIFICATION OF PHYTOPLANKTON

3,300 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
..CHLOROCCOCCALES				
...OOCYSTACEAE				
...ANKISTRODESMUS		46	1	
...CLOSTERIOPSIS		23	1	
...DICTYOSPHAERIUM		91	3	
...KIRCHNERIELLA		23	1	
...SCENEDESMACEAE				
...CRUCIGENTIA		91	3	
...SCENEDESMUS		91	3	
..VOLVOCALES				
..CHLAMYDOMONADACEAE				
...CHLAMYDOMONAS		91	3	
..ZYGNEMATALES				
..DESMIDIACEAE	PLACODERM DESMIDS			
L ...STAURASTRUM				
	TOTALS	460	15	2.622=DIVERSITY
CHRYSOPHYTA				
..BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CFNTRIC			
...ANAUACEAE				
...TERPSINOF			0	
...COSCINODISCACFAE				
...CYCLOTELLA		460	14	
...MELOSIRA		110	3	
..PENNALES	PENNATE			
...ACHNANTHACEAE				
...COCCONFIS		91	3	
...RHOICOSPHENIA		23	1	
...FRAGILARIACEAE				
...FRAGILARIA		180	5	
...SYNEDRA		23	1	
..NAVICULACEAE	NAVICULOID			
L ...GYROSIGMA			0	
...NAVICULA		180	5	
...NITZSCHIACEAE				
...NITZSCHIA				
	TOTALS	370	11	2.516=DIVERSITY
		1,400	43	
CYANOPHYTA	BLUE-GREEN ALGAE			
..MYXOPHYCEAE				
..CHROOCOCCALES	COCCOID			
..CHROOCOCCACEAE				
D ...AGMENELLUM		1,000	30	
...ANACYSTIS		320	10	
..OSCILLATORIALES	FILAMENTOUS			
...NOSTOCACEAE				
...APHANTZOMENON				
	TOTALS	110	3	1.134=DIVERSITY
		1,400	43	

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

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

NOV. 11, 1975
1330 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1.100 CELLS/ML

_ORGANISM_NAME_____	_COMMON_NAME_____	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
.CHLOROPHYCEAE				
..CHLOROCOCCALES				
...SCENEDESMACEAE				
I. ....SCENEDESMIUS			0	
L. ....TETRASTRUM			0	
...VOLVOCALES				
...CHLAMYDOMONADACEAE				
...CHLAMYDOMONAS				
	TOTALS	<u>29</u>	<u>3</u>	0.000=DIVERSITY
CHRYSOPHYTA				
.BACILLARIOPHYCEAE	DIATOMS			
..CFNTRALES	CFNTRIC			
...COSCINODISACEAE				
D. ....CYCLOTELLA		220	20	
...MELOSIRA		120	11	
..PFNNALES	PFNNAE			
...ACHNANTHACEAE				
...ACHNANTHES		73	7	
...COCCONEIS		29	3	
...CYMBELLACEAE				
...CYMBELLA		15	1	
...DIATOMACEAE				
L. ....DIATOMA			0	
...FUNOTIACEAE				
...EUNOTIA		15	1	
...NAVICULACEAE	NAVICULOID			
...NAVICULA		58	5	
...NITZSCHIAEAE				
D. ....NITZSCHIA				
	TOTALS	<u>370</u>	<u>33</u>	2.319=DIVERSITY
890			81	
CYANOPHYTA	BLUE-GREEN ALGAE			
.MYXOPHYCEAE				
..OSCILLATORIALES	FILAMENTOUS			
...NOSTOCACEAE				
...CYLINDROSPERMUM		120	11	
...OSCILLATORIAEAE				
...OSCILLATORIA		73	7	
L. ....SPIRULINA			0	
	TOTALS	<u>190</u>	<u>18</u>	0.961=DIVERSITY
EUGLENOPHYTA	EUGLENOIDS			
.EUGLENOPHYCEAE				
..EUGLENALES				
...EUGLENACEAE				
L. ....EUGLENA			0	

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

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DEC. 9, 1975
1330 HOURS

IDENTIFICATION OF PHYTOPLANKTON

820 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
CHLOROPHYCEAE				
CHLOROCOCCALES				
OOCYSTACEAE				
ANKISTRODESMS		26	3	
TETRAEDRON		13	2	
SCENEDESMACEAE				
SCENEDESMUS				
	TOTALS	26	3	
		65	8	1.522=DIVERSITY
CHRYSOPHYTA				
BACILLARIOPHYCEAE	DIATOMS			
CENTRALES	CENTRIC			
COSCINODISCACEAE				
CYCLOTELLA		78	10	
PENNALES	PENNATE			
ACHNANTHACEAE				
ACHNANTHES		78	10	
COCCONEIS		65	8	
CYMBELLACEAE				
CYMBELLA		52	6	
GOMPHONEMACEAE				
GOMPHONEMA		13	2	
NAVICULACEAE	NAVICULOID			
D ... NAVICULA		210	25	
L ... NEIDIUM			0	
PINNULARIA		13	2	
NITZSCHIACEAE				
D ... NITZSCHIA		210	25	
SURIRELLACEAE				
SURIRELLA				
	TOTALS	13	2	
		730	90	2.618=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
MYXOPHYCEAE				
OSCILLATORIALES	FILAMENTOUS			
OSCILLATORIAEAE				
L ... SPIRULINA			0	
EUGLENOPHYTA	EUGLENOIDS			
CRYPTOPHYCEAE	CRYPTOMONADS			
CRYPTOMONIDALES				
CRYPTOMONODACEAE				
L ... CRYPTOMONAS			0	
EUGLENOPHYCEAE				
EUGLENALES				
EUGLENACEAE				
EUGLENA				
	TOTALS	26	3	
		26	3	0.000=DIVERSITY

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

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

JAN. 14, 1976
0930 HOURS

IDENTIFICATION OF PHYTOPLANKTON

780 CELLS/ML

_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT	
CHRYSTOPHYTA				
..BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CENTRIC			
..COSCINODISCAEAE				
L ..CYCLOTELLA			0	
..PENNALES	PENNATE			
..ACHNANTHACEAE				
..ACHNANTHES		31	4	
..COCconeIS		62	8	
..CYMBELLACEAE				
L ..AMPHORA			0	
..CYMBELLA		31	4	
..DIATOMACEAE				
I ..DIATOMA			0	
..FRAGILARIACEAE				
D ..FRAGILARIA		250	32	
..GOMPHONEMATAEAE				
..GOMPHONEVA		31	4	
..NAVICULACEAE	NAVICULOID			
D ..NAVICULA		280	36	
..NITZSCHIAEAE				
..NITZSCHIA		62	8	
..SURIRELLACEAE				
..SURIRELLA				
	TOTALS	<u>780</u>	<u>100</u>	2.383=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
..MYXOPHYCEAE				
..OSCILLATORIALES	FILAMENTOUS			
..OSCILLATORIAEAE				
L ..SPIRULINA			0	

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

COLORADO RIVER MAIN STEM

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

FEB. 11, 1976
0915 HOURS

IDENTIFICATION OF PHYTOPLANKTON

710 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
.CHLOROPHYCEAE				
..CHLOROCOCCALES				
...SCENEDESMACEAE				
D ....SCENEDESMUS		260	36	
	TOTALS	260	36	0.000=DIVERSITY
CHRYSOPHYTA				
.BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CENTRIC			
...COSCINODISCAEAE				
....CYCLOTELLA		43	6	
L ....MELOSIRA			0	
..PENNALES	PENNATE			
...ACHNANTHACEAE				
....ACHNANTHES		86	12	
....COCCONEIS		64	9	
L ....RHOICOSPHENIA			0	
...CYMBELLACEAE				
L ....AMPHORA			0	
....CYMBELLA		21	3	
...DIATOMACEAE				
L ....DIATOMA			0	
...FRAGILARIACEAE				
....FRAGILARIA		21	3	
...GOMPHONEMACEAE				
....GOMPHONEMA		21	3	
...NAVICULACEAE	NAVICULOID			
L ....AMPHIPLEURA			0	
L ....AMPHIPRORA			0	
L ....CALONEIS			0	
L ....GYROSIGMA			0	
D ....NAVICULA		150	21	
L ....TROPIDONEIS			0	
...NITZSCHIAEAE				
L ....HANTZSCHIA			0	
....NITZSCHIA			0	
	TOTALS	43	6	2.659=DIVERSITY
		450	63	
CYANOPHYTA	BLUE-GREEN ALGAE			
.MYXOPHYCEAE				
..OSCILLATORIALES	FILAMENTOUS			
...OSCILLATORIAEAE				
L ....SPIRULINA			0	
EUGLENOPHYTA	EUGLENOIDS			
.CRYPTOPHYCEAE	CRYPTOMONADS			
..CRYPTOMONIDALES				
...CRYPTOMONODACEAE				
L ....CRYPTOMONAS			0	

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

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

MAR. 10, 1976

1110 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,800 CELLS/ML

ORGANISM_NAME	COMMON_NAME	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
•CHLOROPHYCEAE				
••CHLOROCOCCALES				
•••OOCYSTACEAE				
••••ANKISTRODESMUS		29	2	
••••KIRCHNERIELLA		57	3	
••••OOCYSTIS		110	6	
L ••••TETRAEDRON			0	
•••SCENEDESMACEAE				
D ••••SCENEDESMUS				
	TOTALS	<u>740</u> 950	<u>42</u> 53	1.038=DIVERSITY
CHRYSOPHYTA	DIATOMS			
•BACILLARIOPHYCEAE	CENTRIC			
••CENTRALES				
•••COSCINODISCAEAE				
D ••••CYCLOTELLA		290	16	
••••PENNALES	PENNATE			
••••ACHNANTHACEAE				
••••ACHNANTHES		29	2	
••••COCCONEIS		29	2	
••••RHOICOSPHENIA		29	2	
•••CYMBELLACEAE				
L ••••AMPHORA			0	
L ••••CYMBELLA			0	
•••DIATOMACEAE				
L ••••DIATOMA			0	
•••FRAGILARIACEAE				
L ••••SYNEDRA			0	
•••GOMPHONEMATACEAE				
L ••••GOMPHONEMA			0	
•••NAVICULACEAE	NAVICULOID			
••••AMPHIPRORA		29	2	
L ••••GYROSIGMA			0	
D ••••NAVICULA		260	15	
•••NITZSCHIAEAE				
••••NITZSCHIA		170	10	
•••SURIRELLACEAE				
L ••••SURIRELLA			0	
	TOTALS	<u>830</u>	<u>49</u>	2.194=DIVERSITY
EUGLENOPHYTA	EUGLENOIDS			
•EUGLENOPHYCEAE				
••EUGLENALES				
•••EUGLENACEAE				
L ••••EUGLENA			0	

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

COLORADO RIVER MAIN STEM

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

APR. 14, 1976
0855 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,200 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT	
CHLOROPHYTA	GREEN ALGAE			
CHLOROPHYCEAE				
CHLOROCOCCALES				
OOCYSTACEAE				
ANKISTRODESMUS		13	1	
SCENEDESMACEAE				
ACTINASTRUM		27	2	
SCENEDESMUS		54	4	
	TOTALS	94	7	1.379=DIVERSITY
CHRYSTOPHYTA				
BACILLARIOPHYCEAE	DIATOMS			
CENTRALES	CENTRIC			
COSCINODISCAEAE				
MELOSIRA		120	10	
PENNALES	PENNATE			
ACHNANTHACEAE				
L . . . COCCONEIS			0	
L . . . RHODOSPHENIA			0	
CYMBELLACEAE				
CYMBELLA		54	4	
DIATOMACEAE				
DIATOMA		27	2	
FRAGILARIACEAE				
D . . . FRAGILARIA		630	53	
GOMPHONEMACEAE				
L . . . GOMPHONEMA			0	
NAVICULACEAE	NAVICULOID			
CALONEIS		27	2	
NAVICULA		67	6	
PINNULARIA		13	1	
NITZSCHIACEAE				
NITZSCHIA		120	10	
	TOTALS	1,100	88	1.978=DIVERSITY
CHRYSTOPHYCEAE	YELLOW-BROWN ALGAE			
CHRYSSOMONADALES				
OCHROMONADACEAE				
DINOBYRON		40	3	
	TOTALS	40	3	0.000=DIVERSITY

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

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

APR. 14, 1976
0915 HOURS

IDENTIFICATION OF PHYTOPLANKTON

2,900 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
..CHLOROCOCCALES				
...SCENEDESMACEAE				
....SCENEDESMUS		86	3	
..VOLVOCALES				
...CHLAMYDOMONADACEAE				
....CHLAMYDOMONAS				
	TOTALS	86	3	
		170	6	1.000=DIVERSITY
CHRYSOPHYTA				
..BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CENTRIC			
...COSCINODISCEAE				
D...CYCLOTELLA		740	26	
..PENNALES	PENNAE			
...ACHNANTHACEAE				
....ACHNANTHES		29	1	
...CYMBELLACEAE				
....AMPHORA		57	2	
....CYMBELLA		29	1	
...FRAGILARIACEAE				
....SYNEDRA		57	2	
...GOMPHONEMACEAE				
....GOMPHONEMA		29	1	
...NAVICULACEAE	NAVICULOID			
L...CALONEIS			0	
....NAVICULA		110	4	
....NITZSCHACEAE				
....NITZSCHIA				
	TOTALS	170	6	
		1,200	43	1.944=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
..MYXOPHYCEAE				
..CHROOCOCCALES	COCCOID			
...CHROOCOCCACEAE				
....ANACYSTIS		340	12	
....COCCOCHLORIS		57	2	
...OSCILLATORIALES	FILAMENTOUS			
...OSCILLATORIA				
D...OSCILLATORIA				
	TOTALS	1,100	37	
		1,500	51	1.010=DIVERSITY
EUGLENOPHYTA	EUGLENOIDS			
..EUGLENOPHYCEAE				
...EUGLENALES				
...EUGLENACEAE				
L...EUGLENA			0	

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

COLORADO RIVER MAIN STEM

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

MAY 12, 1976
0920 HOURS

IDENTIFICATION OF PHYTOPLANKTON

3,500 CELLS/ML

_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
...CHLOROCOCCALES				
...SCENEDESMACEAE				
D ...SCENEDESMUS		710	20	
...TETRASTRUM		180	5	
...VOLVOCALES				
...CHLAMYDOMONADACEAE				
...CHLAMYDOMONAS				
	TOTALS	<u>180</u> 1,100	<u>5</u> 30	1.252=DIVERSITY
CHRYSTOPHYTA				
..BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CENTRIC			
...COSCINODISCACEAE				
D ...CYCLOTELLA		620	18	
D ...MELOSIRA		570	16	
..PENNALES	PENNATE			
...ACHNANTHACEAE				
...ACHNANTHES		44	1	
...CYMBELLACEAE				
...CYMBELLA		130	4	
...FRAGILARIACEAE				
...FRAGILARIA		180	5	
...NAVICULACEAE	NAVICULOID			
...NAVICULA		270	8	
...NITZSCHIACEAE				
D ...NITZSCHIA		530	15	
...SURIRELLACEAE				
...SURIRELLA				
	TOTALS	<u>44</u> 2,400	<u>1</u> 68	2.557=DIVERSITY
EUGLENOPHYTA	EUGLENOIDS			
..CRYPTOPHYCEAE	CRYPTOMONADS			
...CRYPTOMONIDALES				
...CRYPTOCHRYSIDACEAE				
...CHROOMONAS				
	TOTALS	<u>44</u> 44	<u>1</u> 1	0.000=DIVERSITY

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

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

JUNE 9, 1976
0845 HOURS

IDENTIFICATION OF PHYTOPLANKTON

2,400 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
..CHLOROCOCCALES				
..COELASTRACEAE				
D ...COELASTRUM		450	19	
..OOCYSTACEAE				
..ANKISTRODESMUS		23	1	
..SCENEDESMACFAE				
D ...SCENEDESMUS		440	18	
..TETRASTRUM		46	2	
..VOLVOCALES				
..CHLAMYDOMONADACEAE				
..CHLAMYDOMONAS				
TOTALS		990	41	1.497=DIVERSITY
CHRYSOPHYTA				
..BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CENTRIC			
..COSCINODISCEAE				
..CYCLOTELLA		350	14	
..MELOSTIRA		200	8	
..PENNALES	PENNATE			
..ACHNANTHACEAE				
L ...COCCONEIS			0	
..CYMBELLACEAE				
..AMPHORA		23	1	
L ...CYMBELLA			0	
..DIATOMACEAE				
..DIATOMA		58	2	
..FRAGILARIACEAE				
I ...SYNEDRA			0	
..GOMPHONEMACEAE				
L ...GOMPHONEMA			0	
..NAVICULACEAE	NAVICULOID			
..NAVICULA		93	4	
..NITZSCHIAEAE				
..NITZSCHIA				
TOTALS		1,100	42	2.370=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
..MYXOPHYCEAE				
..CHROCOCCALES	COCCOID			
..CHROCOCCACEAE				
..AGMENEILLUM		160	7	
..OSCILLATORIALES	FILAMENTOUS			
..OSCILLATORIAEAE				
..OSCILLATORIA		93	4	
TOTALS		260	11	0.946=DIVERSITY
EUGLENOPHYTA	EUGLENOIDS			
..CRYPTOPHYCEAE	CRYPTOMONADS			
..CRYPTOMONIDALES				
..CRYPTOMONODACEAE				
..CRYPTOMONAS		81	3	
TOTALS		81	3	0.000=DIVERSITY
..EUGLENOPHYCEAE				
..EUGLENALES				
..EUGLENACEAE				
..TRACHELOMONAS		23	1	
TOTALS		23	1	0.000=DIVERSITY

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

COLORADO RIVER MAIN STEM

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

AUG. 11, 1976
0930 HOURS

IDENTIFICATION OF PHYTOPLANKTON

6,400 CELLS/ML

_ORGANISM_NAME_____	_COMMON_NAME_____	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
.CHLOROPHYCEAE				
..CHLOROCOCCALES				
...OOCYSTACEAE				
....ANKISTRODESMUS		120	2	
...SCENEDESMACEAE				
....CRUCIGENIA		470	7	
D ...SCENEDESMUS		1,000	16	
...VOLVOCALES				
...CHLAMYDOMONADACEAE				
L ...CHLAMYDOMONAS				
TOTALS		<u>1,600</u>	<u>25</u>	1.327=DIVERSITY
CHRYSTOPHYTA				
.BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CENTRIC			
...COSCINODISCACEAE				
....CYCLOTELLA		89	1	
...PENNALES	PENNATE			
...FRAGILARIACEAE				
....SYNEDRA		360	6	
...NAVICULACEAE	NAVICULOID			
....NAVICULA		89	1	
...NITZSCHIAEAE				
....NITZSCHIA				
TOTALS		<u>300</u> 830	<u>5</u> 13	1.745=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
.MYXOPHYCEAE				
..CHROOCOCCALES	COCCOID			
...CHROOCOCCACEAE				
....AGMENELLUM		470	7	
...OSCILLATORIALES	FILAMENTOUS			
...OSCILLATORIAEAE				
D ...OSCILLATORIA		3,400	53	
L ...SPIRULINA				
TOTALS		<u>3,400</u> 3,900	<u>53</u> 60	0.599=DIVERSITY
EUGLENOPHYTA	EUGLENOIDS			
.CRYPTOPHYCEAE	CRYPTOMONADS			
..CRYPTOMONIDALES				
...CRYPTOMONODACEAE				
....CRYPTOMONAS				
TOTALS		<u>59</u> 59	<u>1</u> 1	0.000=DIVERSITY

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

L - LESS THAN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

SEP. 15, 1976
1030 HOURS

IDENTIFICATION OF PHYTOPLANKTON

15,000 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
..CHLOROCOCCALES				
..DOCYSTACEAE				
..CHLORELLA		80	1	
..DICTYOSPHAERIUM		1,100	7	
L ..KIRCHNERIELLA			0	
..TETRAEDRON		160	1	
..SCENEDESMACEAE				
..CRUCIGENIA		320	2	
D ..SCENEDESMUS		4,200	27	
..VOLVOCALES				
..CHLAMYDOMONADACEAE				
..CARTERIA		80	1	
..POLYBLEPHARIDACEAE				
..SPERMATOOZOPSIS		160	1	
..VOLVOCAEAE				
L ..PANDORINA			0	
..ZYGNEMATALES				
..DESMIDIACEAE	PLACODERM DESMIDS			
L ..STAUSTRUM			0	
TOTALS		6,100	40	1.488=DIVERSITY
CHRYSOPHYTA	DIATOMS			
..BACILLARIOPHYCEAE	CENTRIC			
..CENTRALES				
..COSCINODISCACEAE				
..CYCLOTELLA		400	3	
..MELOSIRA		1,400	9	
..PENNALES	PENNATE			
..CYMBELLACEAE				
..AMPHORA		80	1	
..NAVICULACEAE	NAVICULOID			
L ..GYROSIGMA			0	
..NITZSCHIAEAE				
..NITZSCHIA				
TOTALS		480	3	1.501=DIVERSITY
..CHRYSONADACEAE	YELLOW-BROWN ALGAE			
..CHRYSONADALES				
..OCHROMONADACEAE				
..OCHROMONAS		80	1	
TOTALS		80	1	0.000=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
..MYXOPHYCEAE				
..CHROOCOCCALES	COCCOID			
..CHROOCOCCACEAE				
..ANACYSTIS		2,000	13	
..OSCILLATORIALES	FILAMENTOUS			
..NOSTOCACEAE				
L ..APHANIZOENON			0	
..CYLINDROSPERMUM		960	6	
..OSCILLATORIAEAE				
..LYNGBYA		640	4	
D ..OSCILLATORIA		2,900	19	
TOTALS		6,500	42	1.781=DIVERSITY
EUGLENOPHYTA	EUGLENOIDS			
..CRYPTOPHYCEAE	CRYPTOMONADS			
..CRYPTOMONIDALES				
..CRYPTOCHRYSIDACEAE				
..CHROOMONAS		80	1	
..CRYPTOMONODACEAE				
..CRYPTOMONAS				
TOTALS		80	1	1.000=DIVERSITY
..CRYPTOMONAS		160	2	
PYRRHOPHYTA	FIRE ALGAE			
..DINOPHYCEAE	DINOFLAGELLATES			
..PERIDINIALES				
..PERIDINIAEAE				
L ..PERIDINIUM			0	

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

09429500. COLORADO RIVER BELOW IMPERIAL DAM, ARIZ.-CALIF.

LOCATION.--Forebay gage: Lat 32°52'59", long 114°27'57", in NW¼SW¼ sec.9, T.15 S., R.24 E., San Bernardino meridian, in California, Imperial County, near All-American Canal headworks at west end of Imperial Dam, 5 mi (8 km) upstream from Laguna Dam, 15 mi (24 km) northeast of Yuma, 90 mi (145 km) downstream from Palo Verde Dam, and 147 mi (237 km) downstream from Parker Dam.

DRAINAGE AREA (REVISED).--188,500 mi² (488,200 km²), approximately, including 3,959 mi² (10,254 km²) in Great Divide basin in southern Wyoming, which is noncontributing (previously considered part of the Missouri River basin).

PERIOD OF RECORD.--October 1960 to current year. Prior to October 1971 published as "at Imperial Dam." Records of flow reaching Imperial Dam, formerly published with this station, are now published separately as sta 09429490, Colorado River above Imperial Dam.

GAGE.--Water-stage recorder in forebay, 12 calibrated gates on California sluiceway, 8 calibrated gates on Gila sluiceway, and calibrated manometer on each discharge pipe from desilting basin. Datum of forebay gage is 162.00 ft (49.378 m) above mean sea level (Bureau of Reclamation bench mark).

EXTREMES.--Current year: Maximum daily discharge, 3,680 ft³/s (104 m³/s) Sept. 26; minimum daily, 214 ft³/s (6.06 m³/s) Nov. 24-30.

Period of record: Maximum daily discharge, 5,040 ft³/s (143 m³/s) Mar. 3, 1970; minimum daily, 27 ft³/s (0.76 m³/s) Dec. 15-18, 1969.

REMARKS.--Records good. Records of daily discharge show flow of Colorado River passing Imperial Dam, and include water released to river through California and Gila sluiceways, sludge from desilting basins returned to river, and leakage through dam. For records of flow reaching Imperial Dam see sta 09429490

Flow of Colorado river regulated by many reservoirs, principally Lake Mead, since 1935. Many diversions from Colorado River and tributaries above station. Diversion to Mittry Lake and monthend contents of Senator Wash Reservoir also are now published with sta 09429490.

COOPERATION.--Records of gate openings furnished by Bureau of Reclamation. Records of sludge return flow from desilting basins furnished by Imperial Irrigation District.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	436	224	219	219	219	289	346	346	832	326	335	625
2	793	224	219	219	219	339	346	346	729	722	335	931
3	611	224	219	219	219	339	346	346	525	494	335	845
4	415	224	219	219	219	339	346	346	564	494	335	845
5	416	224	219	219	219	339	346	538	740	495	335	845
6	293	224	219	219	219	339	346	346	832	410	335	986
7	225	224	219	219	219	339	346	537	1020	326	335	1390
8	225	224	219	219	234	339	346	722	1020	326	335	1370
9	225	224	219	219	268	339	538	1060	837	326	335	845
10	481	224	219	219	261	339	346	967	837	326	335	1380
11	414	224	219	219	267	339	346	948	743	326	525	1700
12	415	224	219	219	242	339	346	948	460	326	526	1540
13	416	373	219	219	224	339	532	950	721	496	430	745
14	683	445	219	219	224	339	883	911	837	661	335	524
15	415	442	219	219	245	339	1240	894	1020	422	335	630
16	401	442	219	219	271	422	1210	896	1020	336	335	628
17	225	444	219	219	271	339	1140	494	830	336	335	628
18	225	447	219	219	243	339	1000	346	826	336	525	628
19	288	448	219	219	229	434	346	346	609	336	429	625
20	522	449	219	219	234	339	346	346	834	336	335	680
21	598	448	219	219	234	339	346	637	837	431	335	713
22	598	448	219	219	234	339	346	474	834	621	335	722
23	637	363	219	219	234	531	346	754	834	526	335	987
24	625	214	219	219	234	339	346	1010	553	448	335	1900
25	225	214	219	219	239	339	346	837	529	336	335	2360
26	225	214	219	219	239	339	346	837	407	336	335	3680
27	225	214	219	219	239	339	346	830	326	336	335	905
28	225	214	219	219	239	339	346	826	326	336	335	830
29	225	214	219	219	239	721	440	826	326	336	335	822
30	225	214	219	219	---	530	820	830	326	336	335	475
31	225	---	219	219	---	434	---	832	---	336	467	---
TOTAL	12157	8935	6789	6789	6877	11497	15069	21326	21134	12534	11277	31784
MEAN	392	298	219	219	237	371	502	688	704	404	364	1059
MAX	793	449	219	219	271	721	1240	1060	1020	722	526	3680
MIN	225	214	219	219	219	289	346	346	326	326	335	475
AC-FT	24110	17720	13470	13470	13640	22800	29890	42300	41920	24860	22370	63040
CAL YR 1975	TOTAL	168849	MEAN 463	MAX 2240	MIN 214	AC-FT 334900						
WTR YR 1976	TOTAL	166168	MEAN 454	MAX 3680	MIN 214	AC-FT 329600						

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

LOCATION.--Lat 32°48'44", long 114°30'51", in SE¼NE¼ sec.35, T.15 S., R.23 E., San Bernardino meridian, in California, Imperial County, on right bank 1.4 mi (2.3 km) downstream from Laguna Dam, 2.8 mi (4.5 km) northeast of Bard, Calif., and 10 mi (16 km) northeast of Yuma, Ariz.

DRAINAGE AREA (REVISED).--188,600 mi² (488,500 km²), approximately, including 3,959 mi² (10,254 km²) in Great Divide basin in southern Wyoming, which is noncontributing (previously considered part of the Missouri River basin).

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

GAGE.--Water-stage recorder. Datum of gage is 120.84 ft (36.832 m) above mean sea level (Bureau of Reclamation bench mark).

EXTREMES.--Current year: Maximum discharge, 4,050 ft³/s (115 m³/s) Sept. 26 (gage height, 12.4 ft or 3.78 m, from high-water mark on gage well); minimum daily, 156 ft³/s (4.42 m³/s) Feb. 7.
 Period of record: Maximum discharge, 4,050 ft³/s (115 m³/s) Sept. 26, 1976 (gage height, 12.4 ft or 3.78 m, from high-water mark on gage well); minimum daily, 71 ft³/s (2.01 m³/s) May 29, 1973.

REMARKS.--Records good. Natural flow of Colorado River at this point is affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals, diversions for irrigation, municipal and industrial uses, and return flows from irrigated areas. Flow past station consists mainly of water released through Imperial Dam, sludge from the desilting basins at Imperial Dam, seepage through Imperial Dam, and seepage from the All-American Canal and the Gila Gravity Main Canal. Records of chemical analyses for the current year are published on following pages.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	452	258	269	427	258	347	293	325	917	340	552	643
2	468	463	269	302	274	395	296	325	921	427	400	732
3	508	412	258	293	520	405	325	447	847	578	357	839
4	520	445	232	288	502	395	463	526	742	363	367	852
5	480	485	235	288	477	372	606	514	777	354	377	862
6	432	405	235	215	271	362	564	523	938	371	372	866
7	407	304	213	169	156	242	420	511	882	343	372	1190
8	385	307	225	171	162	225	367	707	858	423	370	1440
9	397	299	232	178	171	337	329	1080	868	656	354	1010
10	402	288	240	180	160	342	310	1060	868	580	344	1160
11	425	288	242	169	184	377	317	1060	896	419	337	1680
12	417	279	248	173	266	410	325	1060	823	364	334	1630
13	420	235	263	180	245	412	332	1060	739	346	349	952
14	432	237	255	187	245	405	494	1050	784	333	354	747
15	440	240	250	182	250	407	1150	959	837	333	354	716
16	440	237	250	175	285	344	1200	935	851	299	347	686
17	425	242	250	198	290	344	1120	907	872	331	344	744
18	407	245	250	237	266	354	1050	613	851	504	405	697
19	477	240	250	242	227	367	770	394	844	657	564	682
20	606	248	255	242	387	347	690	376	819	549	543	746
21	656	250	261	242	505	352	644	334	861	382	523	764
22	697	250	269	248	417	352	541	448	861	370	500	756
23	694	255	274	250	315	359	418	728	861	357	430	708
24	505	255	266	253	312	410	382	875	865	349	380	1300
25	250	255	477	253	315	558	373	875	809	359	385	1870
26	250	242	494	250	334	435	364	886	550	354	380	3300
27	250	225	253	250	332	370	361	938	385	349	372	1320
28	250	237	253	250	302	367	361	938	367	334	375	977
29	250	269	255	250	282	344	337	935	358	317	302	982
30	250	269	422	253	---	347	346	924	349	452	215	679
31	250	---	485	258	---	327	---	921	---	621	397	---
TOTAL	13242	8664	8630	7253	8710	11410	15548	23234	23200	12814	12055	31530
MEAN	427	289	278	234	300	368	518	749	773	413	389	1051
MAX	697	485	494	427	520	558	1200	1080	938	657	564	3300
MIN	250	225	213	169	156	225	293	325	349	299	215	643
AC-FT	26270	17190	17120	14390	17280	22630	30840	46080	46020	25420	23910	62540
CAL YR 1975 TOTAL	177202		MEAN 485	MAX 2070	MIN 213	AC-FT 351500						
WTR YR 1976 TOTAL	176290		MEAN 482	MAX 3300	MIN 156	AC-FT 349700						

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

LOCATION.--Lat 32°48'44", long 114°30'51", in SE¼NE¼ sec.35, T.15 S., R.23 E., San Bernardino meridian, in California, Imperial County, at gaging station on right bank, 1.4 mi (2.3 km) downstream from Laguna Dam, 2.8 mi (4.5 km) northeast of Bard, Calif., and 19 mi (16 km) northeast of Yuma, Ariz.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO
OCT											
06...	0110	450	1390	8.0	26.0	375	228	95	34	150	3.4
13...	0140	420	1410	8.1	21.0	375	224	96	33	155	3.5
20...	0330	624	1450	8.2	--	380	224	102	31	160	3.6
27...	0055	285	1470	8.1	19.0	385	231	102	32	165	3.7
NOV											
03...	0140	432	1420	8.2	19.0	375	222	98	32	160	3.6
10...	0230	295	1530	8.1	20.5	385	224	100	33	180	4.0
17...	0100	242	1510	8.1	16.5	385	222	106	29	175	3.9
24...	0135	262	1440	8.0	13.5	380	222	103	30	160	3.6
DEC											
01...	0230	275	1550	8.1	--	390	224	103	32	185	4.1
08...	0150	228	1520	8.0	15.5	390	226	106	31	175	3.8
15...	0135	255	1480	8.0	13.0	385	226	100	33	170	3.8
22...	0100	262	1440	7.8	14.0	375	219	100	31	165	3.7
29...	0135	255	1550	8.1	13.0	400	232	103	35	180	3.9
JAN											
05...	0140	290	1520	8.0	10.0	390	228	104	32	175	3.8
12...	0100	175	1490	8.0	12.0	385	226	101	32	170	3.8
19...	0100	245	1460	8.2	16.0	385	228	105	30	165	3.7
26...	0135	258	1440	8.1	11.0	375	219	100	31	165	3.7
FEB											
02...	0120	265	1440	8.0	14.0	375	218	103	29	165	3.7
09...	0150	145	1450	8.0	17.0	380	221	105	29	165	3.7
16...	0220	282	1490	8.2	16.5	385	224	103	31	170	3.8
23...	0115	322	1700	8.0	19.0	415	234	110	34	210	4.5
MAR											
01...	0135	290	1480	7.9	18.5	385	226	99	34	170	3.8
08...	0130	159	1430	7.9	15.5	380	221	103	30	160	3.6
15...	0115	393	1490	8.0	16.0	385	226	105	30	170	3.8
22...	0100	350	1330	8.0	15.5	365	214	97	30	145	3.3
29...	0135	366	1390	8.2	17.0	380	226	95	35	150	3.3
APR											
05...	0410	636	1300	8.2	19.5	360	209	95	30	140	3.2
12...	0105	322	1340	7.9	20.0	370	216	97	31	145	3.3
19...	0145	996	1390	8.1	18.0	385	224	102	32	150	3.3
26...	0330	372	1420	8.2	21.5	375	218	99	31	160	3.6
MAY											
03...	0115	335	1330	8.0	24.0	370	218	98	31	145	3.3
10...	0200	1010	1320	8.2	23.5	365	212	98	29	145	3.3
17...	0245	901	1310	8.3	25.5	365	212	95	31	140	3.2
24...	0300	824	1310	8.0	25.0	365	211	96	31	140	3.2
31...	0125	915	1310	8.1	25.0	365	212	98	29	140	3.2
JUN											
07...	0325	926	1350	8.2	26.5	370	216	102	28	145	3.3
14...	0135	770	1330	8.1	26.0	365	211	99	29	145	3.3
21...	0135	842	1310	8.1	29.0	360	209	96	29	140	3.2
28...	0305	408	1420	8.1	27.0	380	220	100	32	160	3.6
JUL											
05...	0105	381	1340	8.1	28.5	370	218	98	31	145	3.3
12...	0125	366	1370	8.0	28.5	375	221	98	32	150	3.4
19...	0410	696	1290	8.1	28.0	355	209	93	30	140	3.2
26...	0125	370	1310	8.1	29.5	365	216	93	32	140	3.2
AUG											
02...	0130	454	1400	8.1	29.0	375	219	98	32	155	3.5
09...	0355	365	1340	8.1	27.0	365	218	96	31	145	3.3
16...	0100	272	1350	8.2	--	370	218	94	33	145	3.3
23...	0125	475	1390	8.1	28.5	370	224	97	31	155	3.5
30...	0200	218	1450	8.0	27.0	380	224	100	32	165	3.7
SEPT											
06...	--	956	1300	8.3	29.0	360	216	92	32	140	3.2
13...	0130	1505	1350	8.2	26.5	370	219	99	30	145	3.3
20...	0355	655	1510	8.1	27.0	395	230	104	33	170	3.7
27...	0050	2000	972	7.9	25.0	252	139	74	16	105	2.9

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

DRAINAGE AREA (REVISED)--188,600 mi² (488,500 km²), approximately, including 3,959 mi² (10,254 km²) in Great Divide basin in southern Wyoming which is noncontributing (previously considered part of the Missouri River basin).

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	HICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED NITRATE (N) (MG/L)
OCT											
06...	6.1	180	0	360	135	.5	12	890	882	1.21	.07
13...	5.8	184	0	360	138	.6	12	912	892	1.24	.11
20...	6.3	190	0	365	145	.5	12	948	916	1.29	--
27...	5.6	188	0	370	152	.6	12	936	932	1.27	--
NOV											
03...	5.6	186	0	365	141	.6	11	904	905	1.23	--
10...	5.6	196	0	380	162	.6	12	968	970	1.32	--
17...	5.4	198	0	375	155	.6	12	968	958	1.32	.38
24...	5.6	192	0	365	142	.6	11	920	914	1.25	.38
DEC											
01...	5.4	202	0	380	166	.6	12	994	985	1.35	.23
08...	5.4	200	0	375	160	.6	12	968	965	1.32	.23
15...	5.6	194	0	370	155	.5	11	964	942	1.31	.29
22...	5.4	190	0	355	148	.5	11	968	911	1.32	.16
29...	5.4	204	0	375	170	.5	11	1000	981	1.36	.23
JAN											
05...	5.6	198	0	375	160	.5	11	964	963	1.31	.41
12...	5.6	194	0	370	155	.5	12	942	943	1.28	.18
19...	5.8	192	0	365	152	.6	10	926	930	1.26	.32
26...	5.9	190	0	360	148	.5	10	918	916	1.25	.29
FEB											
02...	5.4	192	0	360	148	.5	10	916	916	1.25	.14
09...	5.2	194	0	360	150	.5	11	952	922	1.29	.14
16...	5.2	196	0	365	158	.5	11	948	942	1.29	.29
23...	5.4	220	0	400	200	.6	12	1080	1080	1.47	.11
MAR											
01...	5.6	194	0	360	162	.6	11	954	939	1.30	.23
08...	5.6	194	0	355	148	.5	11	912	911	1.24	.34
15...	5.6	194	0	360	162	.6	11	942	941	1.28	.14
22...	5.6	184	0	340	125	.6	9.8	848	845	1.15	.23
29...	5.6	188	0	345	142	.5	9.2	886	877	1.20	.32
APR											
05...	5.2	184	0	335	120	.5	8.5	826	826	1.12	.23
12...	6.1	188	0	340	128	.5	9.9	860	852	1.17	.34
19...	5.7	196	0	350	135	.5	9.0	890	882	1.21	.25
26...	5.4	192	0	355	145	.5	8.2	904	900	1.23	.16
MAY											
03...	5.0	186	0	340	127	.5	7.2	842	846	1.15	.18
10...	5.0	186	0	340	124	.5	6.9	840	841	1.14	.18
17...	5.5	186	0	340	120	.6	6.7	826	831	1.12	.11
24...	5.5	188	0	340	120	.5	8.0	836	835	1.14	.23
31...	5.3	186	0	340	120	.6	7.5	830	833	1.13	.09
JUN											
07...	5.6	188	0	345	128	.5	9.0	862	857	1.17	.20
14...	5.4	188	0	340	125	.5	9.1	842	847	1.15	.25
21...	5.0	184	0	340	120	.4	9.0	840	831	1.14	.18
28...	5.5	196	0	355	145	.5	9.8	904	905	1.23	.14
JUL											
05...	5.8	186	0	340	128	.5	8.8	856	850	1.16	.11
12...	6.0	188	0	345	135	.5	9.2	881	869	1.20	.11
19...	5.7	178	0	335	118	.5	10	816	821	1.11	.11
26...	6.0	182	0	335	125	.5	11	842	833	1.15	.09
AUG											
02...	6.0	190	0	350	142	.5	12	886	890	1.20	.11
09...	5.8	180	0	340	130	.5	10	854	848	1.16	.11
16...	6.2	186	0	345	130	.5	8.8	852	855	1.16	.09
23...	5.8	178	0	350	142	.5	11	884	881	1.20	.14
30...	5.6	190	0	355	155	.5	11	918	919	1.25	.14
SEP											
06...	5.6	176	0	340	121	.6	9.5	828	828	1.13	.09
13...	5.6	184	0	350	125	.5	9.5	856	857	1.16	.34
20...	6.1	202	0	375	155	.5	11	950	956	1.29	.23
27...	6.4	138	0	230	94	.4	7.8	606	605	.82	.81

COLORADO RIVER MAIN STEM

09521100. COLORADO RIVER BELOW YUMA MAIN CANAL
WASTEWAY, AT YUMA, ARIZ.

LOCATION.--Lat 32°43'54", long 114°37'55", in SW¼SW¼ sec.26, T.16 S., R.22 E., San Bernardino meridian, in California, Imperial County, on right bank 1,000 ft (305 m) downstream from Yuma Main Canal wasteway, 0.6 mi (1.0 km) downstream from former gaging station on Colorado River at Yuma, 1.1 mi (1.8 km) northwest of post office in Yuma, 5.2 mi (8.4 km) downstream from Gila River, and 6.4 mi (10.3 km) upstream from northerly international boundary.

DRAINAGE AREA (REVISED).--246,500 mi² (638,400 km²), approximately, including all closed basins entirely within the drainage boundary, also, 3,959 mi² (10,254 km²) in Great Divide basin in southern Wyoming (previously considered part of the Missouri River basin).

PERIOD OF RECORD.--October 1963 to current year. If records for Yuma Main Canal wasteway at Yuma (sta 09525000) and Reservation Main Drain No. 4 (sta 09530000) are subtracted from records at this station, records equivalent to those published 1902-64 as "Colorado River at Yuma" (sta 09521000) can be obtained.

GAGE.--Water-stage recorder. Datum of gage is 101.99 ft (31.087 m) above mean sea level.

AVERAGE DISCHARGE.--13 years, 847 ft³/s (23.99 m³/s), 613,700 acre-ft/yr (757 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,000 ft³/s (85.0 m³/s) Sept. 27 (gage height, 14.69 ft or 4.478 m); minimum daily, 392 ft³/s (11.1 m³/s) Jan. 7.
Period of record: Maximum discharge, 5,040 ft³/s (143 m³/s) Mar. 3, 1970 (gage height, 15.05 ft or 4.587 m); minimum daily, 260 ft³/s (7.36 m³/s) Jan. 17, 1970.
Maximum gage height since at least 1878, 34.0 ft (10.4 m) Jan. 22, 1916 (discharge, 250,000 ft³/s or 7,080 m³/s), at former gaging station at Yuma.

REMARKS.--Records excellent above 1,000 ft³/s (28.3 m³/s) and good below. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, municipal and industrial uses, and return flows from irrigated areas.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	886	818	1260	692	1250	532	567	583	1450	593	879	1350
2	735	694	1240	632	1270	582	571	596	1450	577	744	1300
3	766	566	1230	1230	1290	601	566	606	1420	806	634	1310
4	766	559	1230	1040	1380	593	651	720	1400	629	626	1210
5	755	619	856	1250	1340	576	871	705	1420	598	654	1200
6	685	660	510	480	1260	567	858	739	1390	595	651	1220
7	695	641	529	392	459	546	743	726	1390	585	630	1470
8	710	660	529	396	439	435	648	800	1390	580	639	1700
9	705	646	505	397	459	538	618	1860	1420	814	624	1340
10	705	659	471	476	429	546	593	1560	1400	810	606	1160
11	725	792	487	1350	444	551	599	1480	1400	678	592	1700
12	735	800	512	1280	493	608	597	1490	1370	595	591	1830
13	800	812	529	1110	508	626	588	1400	1380	581	595	1460
14	805	899	529	1140	489	652	598	1400	1490	580	603	1030
15	821	894	523	956	516	630	1130	1250	1440	603	614	1170
16	802	888	515	794	494	590	1420	1250	1460	561	604	1170
17	809	888	522	770	812	566	1290	1240	1500	569	603	1190
18	801	902	519	773	1240	574	1290	1190	1510	641	600	1120
19	844	1030	524	859	1250	611	979	1220	1480	885	797	1170
20	1040	1020	521	899	1270	584	914	1260	1480	810	798	1170
21	1010	1120	528	890	1240	589	880	1270	1490	673	770	1130
22	994	1340	525	886	1390	593	811	1260	1490	614	766	1090
23	969	1340	536	965	583	603	711	1280	1480	633	704	1120
24	963	1320	537	1070	554	609	677	1310	1520	614	625	1340
25	1040	1340	582	1060	540	797	675	1330	1490	641	620	2000
26	1040	1320	832	1100	552	741	669	1330	1460	639	610	2580
27	1170	1310	528	1100	549	625	653	1370	1420	635	608	2470
28	1140	1290	527	1120	530	638	655	1340	1480	627	612	1500
29	1180	1200	521	1110	511	624	625	1380	1360	595	597	1310
30	1170	592	566	1120	---	638	610	1470	598	638	458	1150
31	1120	---	724	1180	---	587	---	1440	---	900	543	---
TOTAL	27386	27619	19947	28517	23541	18552	23057	36855	42428	20299	19997	41960
MEAN	883	921	643	920	812	598	769	1189	1414	655	645	1399
MAX	1180	1340	1260	1350	1390	797	1420	1860	1520	900	879	2580
MIN	685	559	471	392	429	435	566	583	598	561	458	1030
AC-FT	54320	54780	39560	56560	46690	36800	45730	73100	84160	40260	39660	83230
CAL YR 1975	TOTAL	308903	MEAN 846	MAX 2090	MIN 453	AC-FT 612700						
WTR YR 1976	TOTAL	330158	MEAN 902	MAX 2580	MIN 392	AC-FT 654900						

COLORADO RIVER MAIN STEM

09522000. COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY
ABOVE MORELOS DAM, NEAR ANDRADE, CALIF.

LOCATION.--Lat 32°43'07", long 114°43'05", in NE¼SE¼ sec.21, T.8 S., R.24 W., Gila and Salt River meridian, in Arizona, Yuma County, on left bank at northerly international boundary, 0.5 mi (0.8 km) east of Andrade, 1.1 mi (1.8 km) upstream from Morelos Dam, 1.1 mi (1.8 km) downstream from Rockwood Gate, and 6.4 mi (10.3 km) downstream from gaging station on Colorado River below Yuma Main Canal wasteway.

DRAINAGE AREA (REVISED).--246,700 mi² (639,000 km²), approximately, including all closed basins entirely within the drainage boundary, also 3,959 mi² (10,254 km²) in Great Divide basin in southern Wyoming (previously considered part of the Missouri River basin).

PERIOD OF RECORD.--January 1950 to current year. Prior to October 1958 published as "at international boundary."

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Supplementary water-stage recorder 1,680 ft (510 m) upstream at same datum.

EXTREMES.--Current year: Maximum discharge, 8,930 ft³/s (253 m³/s) Sept 27; maximum elevation, 112.56 ft (34.307 m) Sept. 26; minimum discharge, 743 ft³/s (21.0 m³/s) Nov. 4; minimum elevation, 102.23 ft (31.160 m) Nov. 4.
Period of record: Maximum discharge, 25,390 ft³/s (719 m³/s) Jan. 1, 1953; maximum elevation, 114.24 ft (34.820 m) Jan. 28, 1958. minimum discharge, 495 ft³/s (14.0 m³/s) Sept. 28, 1970; minimum elevation, 101.82 ft (31.035 m) Sept. 18, 1971.

REMARKS.--This record shows water passing northerly international boundary. Minor diversions to the United States below this station by pumping from ground water for irrigation in the floodway between river and Yuma levee. Records of chemical analyses for the current year are published on following pages.

COOPERATION.--Records furnished by International Boundary and Water Commission, U.S. Section (monthly summary figures rounded in accordance with Geological Survey standard practice).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1140	1090	1510	1920	1410	2790	3500	2230	1550	1970	2270	1450
2	945	909	1490	1770	1450	2500	3660	2090	1540	1940	2220	1450
3	945	779	1500	1360	1460	2240	3640	2070	1530	2000	2240	1460
4	955	761	1490	1180	1550	2200	3650	1940	1510	2020	2230	1370
5	945	815	1660	1430	1560	2220	3870	1960	1540	2010	2230	1370
6	875	832	1670	1750	1540	2240	3860	1960	1550	2030	2220	1370
7	875	833	1660	1620	1680	2280	3670	1970	1500	2030	2220	1440
8	875	835	1670	1640	1700	2540	3870	1940	1530	2030	2230	1800
9	890	825	1670	1600	1770	2620	3850	1740	1560	2050	2220	1520
10	885	815	1660	1630	1980	2600	3880	1680	1540	2100	2240	2600
11	895	945	1670	1460	2560	2600	3860	1570	1550	2120	2230	4790
12	885	955	1750	1460	1790	2600	3770	1570	1540	2250	2180	3780
13	945	965	1760	1280	1910	2700	3770	1490	1550	2250	2180	1850
14	975	1040	1720	1280	1920	2810	4620	1470	1640	2250	2190	1220
15	985	1050	1950	1120	1920	2880	7050	1370	1630	2270	2200	1300
16	975	1050	1930	960	1780	2910	6420	1320	1630	2250	2180	1320
17	985	1050	2030	918	1630	2910	4240	1340	1660	2280	2190	1330
18	975	1060	2050	925	1390	2940	3150	1310	1680	2280	2160	1300
19	995	1180	2060	985	1390	2940	3210	1310	1640	2360	2080	1330
20	1190	1170	2110	1040	1410	2980	3040	1360	1660	2370	2080	1300
21	1180	1260	2110	1030	1380	3010	3030	1360	1660	2360	2100	1310
22	1170	1470	2230	1040	1560	3090	2990	1370	1670	2370	2110	1260
23	1150	1500	2270	1120	1830	3150	2910	1370	1640	2290	2230	1300
24	1160	1490	2240	1220	2140	3220	2970	1410	1670	2280	2230	2400
25	1230	1510	2280	1220	2410	3220	2900	1450	1700	2290	2230	5350
26	1230	1510	2320	1240	2700	3190	2870	1450	1630	2290	2220	5810
27	1360	1490	2330	1270	3010	3180	2670	1470	1640	2330	2180	7880
28	1340	1500	2340	1260	3110	3180	2530	1450	1650	2370	2130	2840
29	1400	1500	2450	1270	3080	3220	2530	1460	1650	2370	1920	1500
30	1370	1670	2490	1280	---	3200	2530	1550	1870	2310	1730	1210
31	1360	---	2310	1340	---	3140	---	1540	---	2310	1750	---
TOTAL	33085	33859	60380	40618	55020	87300	108710	49570	48310	68430	66820	66210
MEAN	1067	1129	1948	1310	1897	2816	3624	1599	1610	2207	2155	2207
MAX	1400	1670	2490	1920	3110	3220	7050	2230	1870	2370	2270	7880
MIN	875	761	1490	918	1380	2200	2530	1310	1500	1940	1730	1210
AC-FT	65620	67160	119800	80570	109100	173200	215600	98320	95820	135700	132500	131300
CAL YR 1975	TOTAL	703766	MEAN	1928	MAX	5450	MIN	761	AC-FT	1396000		
WTR YR 1976	TOTAL	718312	MEAN	1963	MAX	7880	MIN	761	AC-FT	1425000		

COLORADO RIVER MAIN STEM

09522000. COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY,
ABOVE MORELOS DAM, NEAR ANDRADE, CALIF.
(National stream-quality accounting network and pesticide station)

LOCATION.--Lat 32°43'07", long 114°43'05", in NE&SE¼ sec.21, T.8 S., R.24 W., Gila and Salt River meridian, in Arizona, Yuma County, at gaging station on left bank, at northerly international boundary, 0.5 mi (0.8 km) east of Andrade, 1.1 mi (1.8 km) upstream from Morelos Dam, 1.1 mi (1.8 km) downstream from Rockwood Gate, 20.7 mi (33.3 km) upstream from southerly international boundary, and 21 mi (34 km) downstream from Laguna Dam.

DRAINAGE AREA (REVISED).--246,700 mi² (640,000 km²), approximately, including 3,959 mi² (10,254 km²) in Great Divide basin in southern Wyoming which is noncontributing (previously considered part of the Missouri River basin).

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	DIS- SOLVED OXYGEN (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)
OCT												
06...	0900	895	1670	8.0	24.0	4	--	--	--	--	425	248
07...	0850	865	1700	7.9	22.0	--	7.6	13	150	170	--	--
14...	0830	985	1640	8.1	--	3	--	--	--	--	420	246
20...	0830	1210	1640	8.2	--	5	--	--	--	--	420	246
21...	0825	1170	--	--	20.5	--	--	8	--	--	--	--
28...	0830	1340	1620	8.2	--	4	--	--	--	--	415	244
NOV												
03...	0830	780	1730	8.1	18.5	2	--	--	--	--	430	248
10...	0830	815	1770	8.1	--	3	--	--	--	--	440	253
11...	0830	955	1760	8.2	16.5	--	7.8	11	170	260	--	--
17...	0835	1050	1720	8.2	16.5	5	--	--	--	--	430	248
24...	0900	1500	1600	8.0	12.5	5	--	12	--	--	420	250
DEC												
01...	0830	1490	1670	8.0	--	9	--	--	--	--	430	253
08...	0840	1670	1610	8.1	15.0	7	--	--	--	--	415	244
09...	0830	1660	1660	8.2	15.5	--	8.3	10	--	--	--	--
15...	0830	1960	1590	8.1	14.0	5	--	--	--	--	410	242
22...	0830	2186	1530	8.0	13.5	3	--	--	--	--	400	241
23...	1015	2290	--	--	15.0	--	--	40	--	--	--	--
29...	0845	2475	1530	8.0	--	7	--	--	--	--	400	240
JAN												
05...	0845	1400	1580	8.1	9.0	7	--	--	--	--	405	238
12...	0845	1470	1640	8.0	11.0	8	--	--	--	--	420	248
13...	0830	1280	1620	7.9	10.5	--	10.3	12	38	190	--	--
19...	0830	995	1720	8.2	13.5	3	--	--	--	--	430	250
26...	0845	1240	1630	8.1	--	6	--	--	--	--	420	250
27...	0830	1300	--	--	13.0	--	--	12	--	--	--	--
FEB												
02...	0830	1460	1570	8.0	13.5	7	--	--	--	--	405	240
09...	0840	1800	1580	8.2	--	7	--	--	--	--	405	238
10...	0835	1700	1600	8.0	16.5	--	8.3	11	100	60	--	--
17...	0845	1720	1740	8.2	--	2	--	--	--	--	435	250
23...	0905	1790	1720	8.1	16.5	5	--	--	--	--	430	250
24...	0835	2160	--	--	15.5	--	--	13	--	--	--	--
MAR												
01...	0845	2790	1440	8.1	17.0	9	--	--	--	--	390	234
08...	0830	2590	1380	8.1	16.0	10	--	--	--	--	385	231
09...	0835	2590	1520	8.1	16.5	--	8.5	22	140	40	--	--
15...	0840	2900	1500	8.0	16.0	10	--	--	--	--	395	234
22...	0845	3160	1410	8.1	19.0	20	--	--	--	--	385	231
23...	0830	3090	--	--	18.5	--	--	8	--	--	--	--
29...	0830	3260	1400	8.0	18.0	10	--	--	--	--	385	231
APR												
05...	0845	3770	1380	8.1	--	14	--	--	--	--	380	226
12...	0830	3790	1390	8.0	--	10	--	--	--	--	380	224
13...	0830	3820	1440	8.0	17.5	--	8.0	11	38	63	--	--
19...	0845	3300	1500	8.1	20.5	12	--	--	--	--	400	231
26...	0845	2880	1450	8.2	21.5	20	--	--	--	--	395	238
27...	0835	2650	--	--	20.0	--	--	14	--	--	--	--
MAY												
03...	0830	2080	1490	8.0	--	9	--	--	--	--	395	234
10...	0830	1710	1510	8.1	23.5	20	--	--	--	--	400	238
11...	0830	1600	1570	8.0	23.5	--	7.5	14	87	400	--	--
17...	0830	1400	1520	8.1	--	11	--	--	--	--	400	232
24...	0830	1410	1560	8.1	--	7	--	--	--	--	405	238
25...	0830	1370	--	--	22.0	--	--	59	--	--	--	--
JUN												
01...	0830	1560	1540	8.1	--	5	--	--	--	--	400	231
07...	0830	1530	1540	8.0	25.5	10	--	--	--	--	400	231
08...	0830	1530	1560	8.0	24.0	--	7.4	29	110	200	--	--
14...	0830	1630	1540	8.1	24.5	10	--	--	--	--	400	230
21...	0830	1670	1520	8.1	--	9	--	--	--	--	400	234
28...	0830	1640	1550	8.1	--	8	--	--	--	--	400	232
JUL												
06...	0830	2050	1480	8.0	26.5	7	--	--	--	--	395	234
12...	0830	2250	1440	8.2	--	6	--	--	--	--	390	232
13...	0955	2250	1470	7.7	27.0	--	7.0	5	--	--	--	--
19...	0840	2380	1480	8.2	28.5	9	--	--	--	--	395	238
26...	0820	2280	1460	8.1	26.5	10	--	--	--	--	395	238
27...	0830	2360	--	--	29.0	--	--	11	--	--	--	--
AUG												
02...	0820	2180	1580	8.2	26.5	9	--	--	--	--	405	242
09...	0830	2220	1470	8.2	27.0	9	--	--	--	--	390	234
10...	0835	2220	1440	7.9	27.0	--	6.6	10	60	34	--	--
16...	0840	2220	1480	8.2	--	8	--	--	--	--	395	239
23...	0830	2240	1440	8.4	28.0	9	--	--	--	--	385	232
24...	0845	2250	--	--	27.0	--	--	9	--	--	--	--
30...	0840	1750	1460	8.2	28.0	7	--	--	--	--	385	229
SEP												
07...	0830	1330	1470	8.2	--	5	--	--	--	--	390	231

09522000. COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY,
ABOVE MORELOS DAM, NEAR ANDRADE, CALIF.--CONTINUED

PERIOD OF RECORD.--Chemical analyses: October 1968 to current year.

EXTREMES.--Current year:

Specific conductance: Maximum, 1,820 micromhos Feb. 20; minimum, 1,020 micromhos Sept. 27.

Period of record:

Specific conductance (1969-74): Maximum, 2,230 micromhos Dec. 9, 1969; minimum, 1,020 micromhos Sept. 27, 1976.

REMARKS.--Unpublished chemical analyses (continuing record) for water years 1961-68 available from district office in Tucson, Ariz.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL CALCIUM (CA) (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNE- SIUM (MG) (MG/L)	DIS-SOLVED MAGNE- SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORPTION RATIO	TOTAL POTASSIUM (K) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (CO3) (MG/L)	CARBONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT												
06...	--	111	--	36	--	200	4.2	--	6.1	216	0	395
07...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	106	--	38	--	195	4.1	--	5.9	212	0	390
20...	--	109	--	36	--	195	4.1	--	6.3	212	0	390
21...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	105	--	37	--	190	4.1	--	5.6	208	0	390
NOV												
03...	--	110	--	38	--	210	4.4	--	5.8	222	0	400
10...	--	120	--	34	--	215	4.5	--	5.8	228	0	410
11...	110	--	35	--	200	--	--	5.5	--	--	--	--
17...	--	117	--	34	--	210	4.4	--	5.4	222	0	400
24...	--	109	--	35	--	185	3.9	--	5.6	206	0	385
DEC												
01...	--	114	--	35	--	195	4.1	--	5.4	216	0	395
08...	--	106	--	37	--	190	4.0	--	5.4	208	0	385
09...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	106	--	35	--	185	4.0	--	5.6	204	0	380
22...	--	103	--	35	--	175	3.8	--	5.4	194	0	370
23...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	100	--	37	--	175	3.8	--	5.4	196	0	370
JAN												
05...	--	106	--	34	--	185	4.0	--	5.6	204	0	375
12...	--	111	--	35	--	195	4.1	--	5.6	210	0	390
13...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	113	--	36	--	210	4.4	--	5.8	220	0	395
26...	--	113	--	34	--	190	4.0	--	5.9	208	0	385
27...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
02...	--	104	--	35	--	180	3.9	--	5.4	202	0	375
09...	--	113	--	30	--	185	4.0	--	5.4	204	0	375
10...	150	--	33	--	180	--	--	5.2	--	--	--	--
17...	--	114	--	37	--	210	4.4	--	5.6	226	0	400
23...	--	109	--	38	--	210	4.4	--	5.4	220	0	395
24...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
01...	--	101	--	34	--	160	3.5	--	5.4	190	0	355
08...	--	102	--	32	--	150	3.3	--	5.2	188	0	345
09...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	100	--	35	--	170	3.7	--	5.4	196	0	365
22...	--	100	--	33	--	155	3.4	--	5.6	188	0	350
23...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	98	--	34	--	150	3.3	--	5.6	188	0	345
APR												
05...	--	98	--	33	--	150	3.3	--	5.4	188	0	340
12...	--	96	--	34	--	150	3.4	--	6.3	190	0	340
13...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	106	--	33	--	170	3.7	--	5.7	206	0	365
26...	--	102	--	34	--	160	3.5	--	5.4	192	0	355
27...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
03...	--	103	--	34	--	170	3.7	--	5.0	196	0	360
10...	--	106	--	33	--	170	3.7	--	5.0	198	0	365
11...	100	--	35	--	170	--	--	6.0	--	--	--	--
17...	--	107	--	32	--	175	3.8	--	5.5	204	0	365
24...	--	108	--	33	--	180	3.9	--	5.6	204	0	370
25...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
01...	--	107	--	32	--	180	3.9	--	5.4	206	0	365
07...	--	105	--	34	--	180	3.9	--	5.8	206	0	365
08...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	106	--	33	--	180	3.9	--	5.6	208	0	365
21...	--	105	--	34	--	175	3.8	--	5.2	202	0	365
28...	--	106	--	33	--	180	3.9	--	5.6	204	0	370
JUL												
06...	--	104	--	33	--	165	3.6	--	5.8	196	0	360
12...	--	102	--	33	--	160	3.5	--	6.2	192	0	350
13...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	103	--	34	--	165	3.6	--	6.1	192	0	360
26...	--	101	--	35	--	160	3.5	--	6.1	192	0	355
27...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
02...	--	105	--	35	--	185	4.0	--	6.0	198	0	375
09...	--	102	--	33	--	165	3.6	--	6.0	190	0	360
10...	92	--	34	--	170	--	--	4.7	--	--	--	--
16...	--	101	--	35	--	165	3.6	--	6.2	190	0	360
23...	--	98	--	34	--	160	3.6	--	6.0	186	4	355
24...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	102	--	32	--	165	3.7	--	5.6	190	0	355
SEP												
07...	--	102	--	33	--	165	3.6	--	5.8	194	0	360

09522000. COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY,
ABOVE MORELOS DAM, NEAR ANDRADE, CALIF.--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PEK AC-FT)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)
OCT											
06...	195	.5	12	1070	1060	1.46	--	.20	--	--	--
07...	--	--	--	--	--	--	20	--	.04	250	--
14...	188	.6	12	1050	1040	1.43	--	.38	--	--	--
20...	188	.5	13	1050	1040	1.43	--	--	--	--	--
21...	--	--	--	--	--	--	36	--	--	--	--
28...	185	.7	14	1030	1030	1.40	--	--	--	--	--
NOV											
03...	208	.7	14	1110	1100	1.51	--	.00	--	--	--
10...	212	.6	12	1130	1120	1.54	--	--	--	--	--
11...	--	--	--	--	--	--	8	--	.06	390	10
17...	205	.5	12	1110	1090	1.51	--	.38	--	--	--
24...	180	.6	12	1030	1020	1.40	12	.41	.05	250	--
DEC											
01...	195	.6	12	1070	1060	1.46	--	.29	--	--	--
08...	185	.6	12	1030	1020	1.40	--	.32	--	--	--
09...	--	--	--	--	--	--	13	.23	.02	230	--
15...	180	.5	12	1020	1010	1.39	--	.36	--	--	--
22...	168	.6	12	982	966	1.34	--	.23	--	--	--
23...	--	--	--	--	--	--	17	.23	.02	210	--
29...	168	.5	11	978	966	1.33	--	.38	--	--	--
JAN											
05...	178	.6	13	998	1000	1.36	--	.63	--	--	--
12...	188	.6	12	1040	1040	1.41	--	.32	--	--	--
13...	--	--	--	--	--	--	12	.23	.04	240	--
19...	208	.6	14	1100	1090	1.50	--	.63	--	--	--
26...	188	.5	13	1030	1030	1.40	--	.36	--	--	--
27...	--	--	--	--	--	--	7	--	--	--	--
FEB											
02...	178	.5	13	1020	992	1.39	--	.32	--	--	--
09...	182	.6	12	1010	1000	1.37	--	.36	--	--	--
10...	--	--	--	--	--	--	6	.33	.04	230	0
17...	210	.5	11	1140	1100	1.55	--	.27	--	--	--
23...	208	.6	13	1100	1090	1.50	--	.41	--	--	--
24...	--	--	--	--	--	--	12	--	--	--	--
MAR											
01...	152	.5	11	910	914	1.24	--	.27	--	--	--
08...	140	.5	8.5	884	878	1.20	--	.45	--	--	--
09...	--	--	--	--	--	--	37	.27	.02	210	--
15...	165	.6	11	958	950	1.30	--	.25	--	--	--
22...	145	.5	11	900	894	1.22	--	.29	--	--	--
23...	--	--	--	--	--	--	26	--	--	--	--
29...	145	.5	11	890	884	1.21	--	.32	--	--	--
APR											
05...	142	.5	9.0	882	873	1.20	--	.38	--	--	--
12...	142	.5	11	888	876	1.21	--	.43	--	--	--
13...	--	--	--	--	--	--	23	--	.03	180	--
19...	158	.6	9.8	962	951	1.31	--	.34	--	--	--
26...	155	.5	8.6	918	916	1.25	--	.23	--	--	--
27...	--	--	--	--	--	--	18	--	--	--	--
MAY											
03...	165	.5	8.2	952	944	1.29	--	.27	--	--	--
10...	168	.6	9.6	962	956	1.31	--	.27	--	--	--
11...	--	--	--	--	--	--	21	--	.02	210	40
17...	168	.5	7.8	972	962	1.32	--	.23	--	--	--
24...	178	.6	9.5	992	986	1.35	--	.32	--	--	--
25...	--	--	--	--	--	--	9	--	--	--	--
JUN											
01...	172	.6	9.5	978	974	1.33	--	.23	--	--	--
07...	172	.5	10	978	975	1.33	--	.29	--	--	--
08...	--	--	--	--	--	--	31	--	.01	200	--
14...	172	.5	11	980	977	1.33	--	.34	--	--	--
21...	168	.5	11	970	965	1.32	--	.34	--	--	--
28...	175	.6	10	974	982	1.32	--	.29	--	--	--
JUL											
06...	162	.5	9.0	936	938	1.27	--	.27	--	--	--
12...	155	.5	9.5	916	912	1.25	--	.23	--	--	--
13...	--	--	--	--	--	--	6	--	.03	210	--
19...	162	.5	10	936	936	1.27	--	.16	--	--	--
26...	160	.5	11	932	925	1.27	--	.25	--	--	--
27...	--	--	--	--	--	--	8	--	--	--	--
AUG											
02...	182	.6	12	1000	1000	1.36	--	.20	--	--	--
09...	160	.5	10	928	931	1.26	--	.16	--	--	--
10...	--	--	--	--	--	--	14	.20	.02	220	20
16...	162	.5	10	936	935	1.27	--	.23	--	--	--
23...	152	.5	11	924	914	1.26	--	.23	--	--	--
24...	--	--	--	--	--	--	16	--	--	--	--
30...	158	.5	12	926	925	1.26	--	.16	--	--	--
SEPT											
07...	160	.6	10	948	933	1.29	--	.18	--	--	--

09522000. COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY,
ABOVE MORELOS DAM, NEAR ANDRADE, CALIF.--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DIS-SOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
SEP										
13...	0830	2000	1520	8.1	--	9	--	--	--	--
14...	0845	1160	1600	7.7	26.0	--	8.1	34	B600	220
20...	0830	1320	1730	8.1	--	25	--	--	--	--
27...	1320	8700	1020	8.0	--	220	--	--	--	--
28...	0830	--	--	--	24.5	--	--	9	--	--

DATE	HARDNESS (CA, MG/L)	NON-CALCIUM HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DIS-SOLVED PHOSPHATE (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
SEP										
13...	400	236	108	32	175	3.8	5.8	202	0	365
14...	--	--	--	--	--	--	--	--	--	--
20...	430	248	113	36	210	4.4	6.3	222	0	400
27...	280	154	80	20	108	2.8	6.7	154	0	240
28...	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS PER AC-FT	TOTAL NON-FILTERABLE RESIDUE (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED ORTHOPHOSPHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)
SEP										
13...	168	.5	9.8	962	965	1.31	--	.25	--	--
14...	--	--	--	--	--	--	15	.28	.04	250
20...	208	.5	12	1100	1100	1.50	--	.66	--	--
27...	102	.3	7.9	640	644	.87	--	.72	--	--
28...	--	--	--	--	--	--	146	--	--	--

B Results based on non-ideal colony count.

COLORADO RIVER MAIN STEM

09522000. COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY,
ABOVE MORELOS DAM, NEAR ANDRADE, CALIF.--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL NITRATE (MG/L)	DIS- SOLVED NITRATE (MG/L)	TOTAL NITRITE (MG/L)	DIS- SOLVED NITRITE (MG/L)	TOTAL NITRITE PLUS NITRATE (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (MG/L)	TOTAL AMMONIA NITRO- GEN (MG/L)
OCT								
06...	0900	--	.20	--	--	--	--	--
07...	0850	.18	--	.01	.01	.19	.19	.03
14...	0830	--	.38	--	--	--	--	--
21...	0825	.17	--	.02	--	.19	--	.12
NOV								
03...	0830	--	.00	--	--	--	--	--
11...	0830	.27	--	.03	.03	.30	.30	.17
17...	0835	--	.38	--	--	--	--	--
24...	0900	.29	.41	.02	.02	.31	.31	.14
DEC								
01...	0830	--	.29	--	--	--	--	--
08...	0840	--	.32	--	--	--	--	--
09...	0830	.24	.23	.01	.01	.25	.24	.15
15...	0830	--	.36	--	--	--	--	--
22...	0830	--	.23	--	--	--	--	--
23...	1015	.25	.23	.01	.00	.26	.23	.11
29...	0845	--	.38	--	--	--	--	--
JAN								
05...	0845	--	.63	--	--	--	--	--
12...	0845	--	.32	--	--	--	--	--
13...	0830	.23	.23	.01	.01	.24	.24	.14
19...	0830	--	.63	--	--	--	--	--
26...	0845	--	.36	--	--	--	--	--
27...	0830	.33	--	.02	--	.35	--	.13
FEB								
02...	0830	--	.32	--	--	--	--	--
09...	0840	--	.36	--	--	--	--	--
10...	0835	.32	.33	.02	.01	.34	.34	.14
17...	0845	--	.27	--	--	--	--	--
23...	0905	--	.41	--	--	--	--	--
24...	0835	.27	--	.01	--	.28	--	.05
MAR								
01...	0845	--	.27	--	--	--	--	--
08...	0830	--	.45	--	--	--	--	--
09...	0835	.29	.27	.01	.01	.30	.28	.09
15...	0840	--	.25	--	--	--	--	--
22...	0845	--	.29	--	--	--	--	--
23...	0830	.31	--	.01	--	.32	--	.10
29...	0830	--	.32	--	--	--	--	--
APR								
05...	0845	--	.38	--	--	--	--	--
12...	0830	--	.43	--	--	--	--	--
13...	0830	.24	--	.01	.01	.25	.25	.10
19...	0845	--	.34	--	--	--	--	--
26...	0845	--	.23	--	--	--	--	--
27...	0835	.22	--	.01	--	.23	--	.06
MAY								
03...	0830	--	.27	--	--	--	--	--
10...	0830	--	.27	--	--	--	--	--
11...	0830	.26	--	.01	.01	.27	.26	.02
17...	0830	--	.23	--	--	--	--	--
24...	0830	--	.32	--	--	--	--	--
25...	0830	.18	--	.04	--	.22	--	.09
JUN								
01...	0830	--	.23	--	--	--	--	--
07...	0830	--	.29	--	--	--	--	--
08...	0830	.22	--	.02	.02	.24	.23	.05
14...	0830	--	.34	--	--	--	--	--
21...	0830	--	.34	--	--	--	--	--
28...	0830	--	.29	--	--	--	--	--
JUL								
06...	0830	--	.27	--	--	--	--	--
12...	0830	--	.23	--	--	--	--	--
13...	0955	.15	--	.00	.00	.15	.19	.07
19...	0840	--	.16	--	--	--	--	--
26...	0820	--	.25	--	--	--	--	--
27...	0830	.21	--	.01	--	.22	--	.06
AUG								
02...	0820	--	.20	--	--	--	--	--
09...	0830	--	.16	--	--	--	--	--
10...	0835	.31	.20	.00	.00	.31	.20	.06
16...	0840	--	.23	--	--	--	--	--
23...	0830	--	.23	--	--	--	--	--
24...	0845	.13	--	.00	--	.13	--	.05
30...	0840	--	.16	--	--	--	--	--
SEP								
07...	0830	--	.18	--	--	--	--	--
13...	0830	--	.25	--	--	--	--	--
14...	0845	.32	.28	.02	.02	.34	.30	.12
20...	0830	--	.66	--	--	--	--	--
27...	1320	--	.72	--	--	--	--	--

COLORADO RIVER MAIN STEM

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ABOVE MORELOS DAM, NEAR ANDRADE, CALIF.--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO, PHOS- PHORUS (P) (MG/L)
OCT							
06...	--	--	--	--	--	--	--
07...	.53	.56	.75	3.3	.08	--	.04
14...	--	--	--	--	--	--	--
21...	.54	.66	.85	3.8	.05	--	--
NOV							
03...	--	--	--	--	--	--	--
11...	.93	1.1	1.4	6.2	.10	.07	.06
17...	--	--	--	--	--	--	--
24...	.34	.48	.79	3.5	.03	--	.05
DEC							
01...	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--
09...	.14	.29	.54	2.4	.05	--	.02
15...	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--
23...	.22	.33	.59	2.6	.06	--	.02
29...	--	--	--	--	--	--	--
JAN							
05...	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--
13...	.52	.66	.90	4.0	.06	--	.04
19...	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--
27...	.97	1.1	1.5	6.4	.06	--	--
FEB							
02...	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--
10...	.81	.95	1.3	5.7	.05	.04	.04
17...	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--
24...	.74	.29	.57	2.5	.04	--	--
MAR							
01...	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--
09...	.62	.71	1.0	4.5	.07	--	.02
15...	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--
23...	.46	.56	.88	3.9	.09	--	--
29...	--	--	--	--	--	--	--
APR							
05...	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--
13...	.22	.32	.57	2.5	.05	--	.03
19...	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--
27...	.62	.68	.91	4.0	.06	--	--
MAY							
03...	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--
11...	.26	.28	.55	2.4	.10	.05	.02
17...	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--
25...	.41	.50	.72	3.2	.05	--	--
JUN							
01...	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--
08...	.25	.30	.54	2.4	.04	--	.01
14...	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--
JUL							
06...	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--
13...	.29	.36	.51	2.3	.06	--	.03
19...	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--
27...	.37	.43	.65	2.9	.04	--	--
AUG							
02...	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--
10...	.46	.52	.83	3.7	.04	.02	.02
16...	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--
24...	.31	.36	.49	2.2	.07	--	--
30...	--	--	--	--	--	--	--
SEP							
07...	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--
14...	.10	.22	.56	2.5	.08	--	.04
20...	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--

COLORADO RIVER MAIN STEM

09522000. COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY,
ABOVE MORELOS DAM, NEAR ANDRADE, CALIF.--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)
OCT									
07...	--	--	--	--	750	--	--	--	--
21...	--	--	--	--	430	--	--	--	--
NOV									
11...	<50	0	10	5	430	10	<100	4	150
24...	--	--	--	--	500	--	--	--	--
DEC									
09...	--	--	--	--	170	--	--	--	--
23...	--	--	--	--	290	--	--	--	--
JAN									
13...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	240	--	--	--	--
FEB									
10...	<50	1	<10	1	220	0	<100	1	90
24...	--	--	--	--	340	--	--	--	--
MAR									
09...	--	--	--	--	1	--	--	--	--
23...	--	--	--	--	710	--	--	--	--
APR									
13...	--	--	--	--	380	--	--	--	--
27...	--	--	--	--	660	--	--	--	--
MAY									
11...	<50	0	10	1	870	40	<100	0	210
25...	--	--	--	--	440	--	--	--	--
JUN									
08...	--	--	--	--	770	--	--	--	--
JUL									
13...	--	--	--	--	360	--	--	--	--
27...	--	--	--	--	260	--	--	--	--
AUG									
10...	<50	0	<10	0	400	20	<100	1	80
24...	--	--	--	--	340	--	--	--	--
SEP									
14...	--	--	--	--	530	--	--	--	--
28...	--	--	--	--	3900	--	--	--	--

DATE	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT								
07...	--	--	--	--	--	--	--	3.2
21...	--	--	--	--	--	--	--	2.7
NOV								
11...	30	.0	.0	3	3	50	20	6.7
24...	--	--	--	--	--	--	--	3.6
DEC								
09...	--	--	--	--	--	--	--	3.2
23...	--	--	--	--	--	--	--	13
JAN								
13...	--	--	--	--	--	--	--	3.8
27...	--	--	--	--	--	--	--	12
FEB								
10...	20	.0	.0	3	3	10	0	3.5
24...	--	--	--	--	--	--	--	3.5
MAR								
09...	--	--	--	--	--	--	--	3.7
23...	--	--	--	--	--	--	--	2.8
APR								
13...	--	--	--	--	--	--	--	3.3
27...	--	--	--	--	--	--	--	3.3
MAY								
11...	10	.0	.0	3	3	0	0	6.2
25...	--	--	--	--	--	--	--	2.6
JUN								
08...	--	--	--	--	--	--	--	3.4
JUL								
13...	--	--	--	--	--	--	--	<1.3
27...	--	--	--	--	--	--	--	3.1
AUG								
10...	10	.1	.0	3	3	20	0	3.5
24...	--	--	--	--	--	--	--	3.0
SEP								
14...	--	--	--	--	--	--	--	4.3
28...	--	--	--	--	--	--	--	7.9

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

COLORADO RIVER MAIN STEM

09522000. COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY,
ABOVE MORELOS DAM, NEAR ANDRADE, CALIF.--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ATRA- ZINE (UG/L)	ATRA- ZINE IN BOTTOM MATERI- AL (UG/ KG DRY SOLIDS)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)
OCT										
07...	0850	.00	--	--	--	.0	--	.00	--	.00
NOV										
11...	0830	ND	ND	--	--	ND	ND	ND	ND	ND
DEC										
09...	0830	.00	--	--	--	.0	--	.00	--	.00
JAN										
13...	0830	.00	--	--	--	.0	--	.00	--	.00
FEB										
10...	0835	ND	--	ND	--	ND	--	ND	--	ND
MAR										
09...	0835	.00	--	--	--	.0	--	.00	--	.00
APR										
13...	0830	.00	--	--	--	.0	--	.00	--	.00
MAY										
11...	0830	.00	--	--	--	.0	--	.00	--	.00
11...	0900	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN										
08...	0830	.00	--	--	--	.0	--	.00	--	.00
JUL										
13...	0955	.00	--	--	--	.0	--	.00	--	.00
AUG										
10...	0835	ND	--	ND	--	ND	--	ND	--	ND
SEP										
14...	0845	.00	--	--	--	.0	--	.00	--	.00

DATE	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)
OCT										
07...	--	.00	--	.00	--	.00	--	.00	--	.00
NOV										
11...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DEC										
09...	--	.00	--	.00	--	.00	--	.00	--	.00
JAN										
13...	--	.00	--	.00	--	.00	--	.00	--	.00
FEB										
10...	--	ND	--	ND	--	ND	--	ND	--	ND
MAR										
09...	--	.00	--	.00	--	.00	--	.00	--	.00
APR										
13...	--	.00	--	.00	--	.00	--	.00	--	.00
MAY										
11...	--	.00	--	.00	--	.00	--	.00	--	.00
11...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN										
08...	--	.00	--	.00	--	.00	--	.00	--	.00
JUL										
13...	--	.00	--	.00	--	.00	--	.00	--	.00
AUG										
10...	--	ND	--	ND	--	ND	--	ND	--	ND
SEP										
14...	--	.00	--	.00	--	.00	--	.00	--	.00

COLORADO RIVER MAIN STEM

09522000. COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY,
ABOVE MORELOS DAM, NEAR ANDRADE, CALIF.--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	ETHION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METH- OXY- CHLOR (UG/L)
OCT 07...	--	.00	--	.00	--	.00	--	.00	--	--
NOV 11...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DEC 09...	--	.00	--	.00	--	.00	--	.00	--	--
JAN 13...	--	.00	--	.00	--	.00	--	.00	--	--
FEB 10...	--	ND	--	ND	--	ND	--	ND	--	ND
MAR 09...	--	.00	--	.00	--	.00	--	.00	--	--
APR 13...	--	.05	--	.00	--	.00	--	.00	--	--
MAY 11...	--	.00	--	.00	--	.00	--	.00	--	--
11...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN 08...	--	.00	--	.00	--	.00	--	--	--	--
JUL 13...	--	.00	--	.00	--	.00	--	.00	--	--
AUG 10...	--	ND	--	ND	--	ND	--	ND	--	ND
SEP 14...	--	.00	--	.00	--	.00	--	.00	--	--

DATE	METHOX- YCHLOR IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	SIMA- ZINE TOTAL (UG/L)	SIMA- ZINE IN BOTTOM MATERI- AL (UG/ KG DRY SOLIDS)	TOTAL TOX- APHENE (UG/L)
OCT 07...	--	.00	--	.00	--	.00	--	--	--	0
NOV 11...	ND	ND	ND	ND	ND	ND	ND	--	--	ND
DEC 09...	--	.00	--	.00	--	.00	--	--	--	0
JAN 13...	--	.00	--	.00	--	.00	--	--	--	0
FEB 10...	--	ND	--	ND	--	ND	--	--	--	ND
MAR 09...	--	.00	--	.00	--	.00	--	--	--	0
APR 13...	--	.00	--	.00	--	.00	--	--	--	0
MAY 11...	--	.00	--	.00	--	.00	--	--	--	0
11...	ND	ND	ND	ND	ND	ND	ND	--	ND	ND
JUN 08...	--	.00	--	.00	--	.00	--	--	--	0
JUL 13...	--	.00	--	.00	--	.00	--	--	--	0
AUG 10...	--	ND	--	ND	--	ND	--	ND	--	ND
SEP 14...	--	.00	--	.00	--	.00	--	--	--	0

ND Material specifically analyzed for but not detected.

COLORADO RIVER MAIN STEM

09522000. COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY,
ABOVE MORELOS DAM, NEAR ANDRADE, CALIF.--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	2,4-D IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4,5-T (UG/L)	2,4,5-T IN BOTTOM MA- TERIAL (UG/KG)	TOTAL SILVEX (UG/L)	SILVEX IN BOTTOM MA- TERIAL (UG/KG)	TOTAL PCB (UG/L)
OCT 07...	--	.00	--	.00	--	.00	--	.00	--	.0
NOV 11...	ND	ND	ND	.80	--	.00	--	.00	--	.0
DEC 09...	--	.00	--	.00	--	.00	--	.00	--	.0
JAN 13...	--	.00	--	.00	--	.00	--	.00	--	.0
FEB 10...	--	ND	--	ND	--	ND	--	ND	--	.0
MAR 09...	--	.00	--	.00	--	.00	--	.00	--	.0
APR 13...	--	.00	--	.00	--	.00	--	.00	--	.0
MAY 11...	--	.00	--	.00	--	.00	--	.00	--	.0
MAY 11...	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
JUN 08...	--	.00	--	.00	--	.00	--	.00	--	.0
JUL 13...	--	.00	--	.01	--	.00	--	.00	--	.0
AUG 10...	--	ND	--	ND	--	ND	--	ND	--	.0
SEP 14...	--	.00	--	.31	--	.00	--	.00	--	.0

ND Material specifically analyzed for but not detected.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1610	1660	1670	---	1560	1440	1460	1500	1540	1470	1550	1540
2	1700	1770	1670	1650	1570	1450	1390	1480	1530	1510	1580	1490
3	1640	1730	1670	1650	1620	1430	1390	1490	1530	1570	1530	1480
4	1620	1770	1700	1690	1570	1430	1390	1480	1540	1540	1510	1510
5	1630	1730	1640	1580	1590	1450	1380	1470	1560	1520	1490	1530
6	1670	1780	1630	1560	1620	1450	1400	1500	1510	1480	1490	1530
7	1700	1770	1560	1550	1580	1480	1390	1490	1540	1470	1510	1470
8	1690	1740	1610	1560	1610	1380	1390	1510	1550	1480	1470	1490
9	1610	1750	1590	1580	1580	1470	1410	1560	1540	1490	1470	1410
10	1670	1770	1580	1580	1560	1440	1400	1510	1550	1470	1450	1500
11	1700	1740	1580	1600	1530	1440	1430	1550	1520	1500	1440	1390
12	1690	1730	1590	1640	1560	1460	1390	1530	1510	1440	1450	1420
13	1670	1730	1570	1650	1590	1480	1390	1540	1540	1450	1460	1520
14	1640	1690	1600	1640	1600	1530	1420	1500	1540	1470	1470	1620
15	1630	1700	1590	1670	1680	1500	1300	1520	1510	1490	1480	1680
16	1630	1730	1600	1690	1710	1460	1310	1510	1480	1500	1480	1730
17	1640	1720	1570	1700	1740	1470	1380	1520	1490	1510	1480	1800
18	1670	1690	1530	1740	1720	1430	1440	1560	1500	1530	1460	1730
19	1670	1600	1550	1720	1770	1430	1500	1610	1510	1480	1470	1720
20	1640	1600	1530	1670	1820	1410	1540	1600	1530	1480	1460	1730
21	1640	1590	1530	1650	1780	1430	1510	1580	1520	1480	1460	1680
22	1590	1560	1530	1660	1770	1410	1490	1650	1520	1500	1450	1640
23	1580	1560	1520	1630	1720	1410	1490	1600	1510	1510	1440	1590
24	1600	1600	1530	1600	1590	1400	1460	1560	1500	1510	1430	1460
25	1560	1570	---	1620	1560	1430	1450	1490	1500	1500	1430	1270
26	1670	1570	1610	1630	1480	1420	1450	1540	1540	1460	1430	1240
27	1620	1610	1650	1590	1440	1410	1470	1530	1550	1460	1450	1020
28	1620	1630	1540	1570	1450	1410	1470	1540	1550	1470	1480	1260
29	1600	1700	1530	1570	1430	1400	1450	1580	1540	1460	1490	1450
30	1600	1640	1510	1590	---	1390	1470	1550	1490	1500	1460	1550
31	1610	---	1520	1560	---	1400	---	1550	---	1540	1470	---
MEAN	1640	1680	1580	1630	1610	1440	1430	1540	1520	1490	1470	1520
YEAR	MAX	1820	MIN	1020	MEAN	1550						

09522000. COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY,
ABOVE MORELOS DAM, NEAR ANDRADE, CALIF.--CONTINUED

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

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll	Chlorophyll	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight	^a (mg/m ²)	^b (mg/m ²)		
Nov. 11	35	4.90	2.80	29.0	5.80	72	Polyethylene strip
Feb. 10	28	8.30	3.50	16.0	.800	300	Polyethylene strip
May 11	28	55.8	45.7	1.34	.359	7500	Polyethylene strip
Sept. 14	35	19.5	15.6	40.6	4.48	96	Polyethylene strip

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

OCT. 9, 1974
0830 HOURS

IDENTIFICATION OF PHYTOPLANKTON

8.300 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
•CHLOROPHYCEAE				
••CHLOROCOCCALES				
•••COELASTRACEAE				
D ••••COELASTRUM		1,200	15	
•••SCENEDESMACEAE				
••••SCENEDESMUS				
TOTALS		<u>390</u> 1,600	<u>5</u> 20	0.792=DIVERSITY
CHRYSOPHYTA				
•BACILLARIOPHYCEAE	DIATOMS			
••CENTRALES	CENTRIC			
•••COSCINODISCACEAE				
••••CYCLOTELLA		580	7	
••PENNALES	PENNATE			
•••GOMPHONEMACEAE				
L ••••GOMPHONEMA			0	
•••NITZSCHIAEAE				
••••NITZSCHIA				
TOTALS		<u>230</u> 850	<u>3</u> 10	1.091=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
•MYXOPHYCEAE				
••OSCILLATORIALES	FILAMENTOUS			
•••OSCILLATORIAEAE				
D ••••LYNGBYA		5,600	67	
TOTALS		<u>5,600</u> 5,600	<u>67</u> 67	0.000=DIVERSITY
EUGLENOPHYTA	EUGLENOIDS			
•CRYPTOPHYCEAE	CRYPTOMONADS			
••CRYPTOMONIDALES				
•••CRYPTOMONODACEAE				
••••CRYPTOMONAS				
TOTALS		<u>230</u> 230	<u>3</u> 3	0.000=DIVERSITY

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

COLORADO RIVER MAIN STEM

09522000. COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY,
ABOVE MORELOS DAM, NEAR ANDRADE, CALIF.--CONTINUED

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

NOV. 5, 1974
0815 HOURS

IDENTIFICATION OF PHYTOPLANKTON

11,000 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT	
CHLOROPHYTA	GREEN ALGAE			
•CHLOROPHYCEAE				
••CHLOROCCOCALEF				
•••SCENEDESMACEAF				
••••SCENEDESMUS				
	TOTALS	<u>510</u> 510	<u>5</u> 5	0.000=DIVERSITY
CHRYSOPHYTA	DIATOMS			
•BACILLARIOPHYCEAE	CENTRIC			
••CENTRALES				
•••COSCONODISCACEAE				
D ••••CYCLOTELLA		5,400	49	
D ••••MELOSIRA		2,500	22	
••PENNALES	PENNATE			
•••NAVICULACEAE	NAVICULOID			
••••NAVICULA		170	2	
••••NITZSCHIAEAE				
••••NITZSCHIA				
	TOTALS	<u>340</u> 8,400	<u>3</u> 76	1.233=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
•MYXOPHYCEAE	FILAMENTOUS			
••OSCILLATORIALES				
•••OSCILLATORIAEAE				
D ••••LYNGBYA		<u>2,100</u> 2,100	<u>19</u> 19	0.000=DIVERSITY

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

09522000. COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY,
ABOVE MORELOS DAM, NEAR ANDRADE, CALIF.--CONTINUED

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DEC. 3, 1974
0830 HOURS

IDENTIFICATION OF PHYTOPLANKTON

6,600 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
.CHLOROPHYCEAE				
..VOLVOCALES				
...CHLAMYDOMONADACEAE				
....CHLAMYDOMONAS				
	TOTALS	<u>46</u> 46	<u>1</u> 1	0.000=DIVERSITY
CHRYSOPHYTA				
.BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CENTRIC			
...COSCINODISCACEAE				
D ....COSCINODISCUS		1,900	28	
D ....MELOSIRA		2,200	34	
..PENNALES	PENNATE			
...FRAGILARIACEAE				
....SYNEDRA		140	2	
...NAVICULACEAE	NAVICULOID			
....NAVICULA		180	3	
....PINNULARIA		46	1	
...NITZSCHIAEAE				
....NITZSCHIA				
	TOTALS	<u>91</u> 4,600	<u>1</u> 69	1.549=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
.MYXOPHYCEAE				
..OSCILLATORIALES	FILAMENTOUS			
...OSCILLATORIAEAE				
D ....LYNGBYA		1,800	28	
....OSCILLATORIA		<u>91</u>	<u>1</u>	
	TOTALS	1,900	29	0.276=DIVERSITY
EUGLENOPHYTA	EUGLENOIDS			
.EUGLENOPHYCEAE				
..EUGLENALES				
...EUGLENACEAE				
....EUGLENA				
	TOTALS	<u>46</u> 46	<u>1</u> 1	0.000=DIVERSITY

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

JAN. 7, 1975
0855 HOURS

IDENTIFICATION OF PHYTOPLANKTON

500 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER_CENT	
CHRYSOPHYTA				
.BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CENTRIC			
...COSCINODISCACEAE				
D ....CYCLOTELLA		110	22	
..PENNALES	PENNATE			
...ACHNANTHACEAE				
....COCCONEIS		22	4	
...CYMBELLACEAE				
....AMPHORA		22	4	
..GOMPHONEMATAEAE				
...GOMPHONEMA		22	4	
...NAVICULACEAE	NAVICULOID			
D ....NAVICULA		150	30	
...NITZSCHIAEAE				
D ....NITZSCHIA				
	TOTALS	<u>170</u> 500	<u>35</u> 99	2.121=DIVERSITY

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

COLORADO RIVER MAIN STEM

09522000. COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY,
 ABOVE MORELOS DAM, NEAR ANDRADE, CALIF.--CONTINUED

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

FEB. 11, 1975
 0900 HOURS

IDENTIFICATION OF PHYTOPLANKTON

2,600 CELLS/ML

ORGANISM__NAME_____	COMMON__NAME_____	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
•CHLOROPHYCEAE				
••CHLOROCOCCALES				
•••OOCYSTACEAE				
••••TETRAEDRON		20	1	
•••SCENEDESMACEAE				
••••SCENEDESMUS		120	5	
••VOLVOCALES				
•••CHLAMYDOMONADACEAE				
••••CHLAMYDOMONAS		20	1	
TOTALS		160	7	1.061=DIVERSITY
CHRYSTOPHYTA				
•BACILLARIOPHYCEAE	DIATOMS			
••PENNALES	PENNATE			
•••FRAGILARIACEAE				
••••H.ARCUS		20	1	
••CENTRALES	CENTRIC			
•••COSCINODISCAEAE				
••••CYCLOTELLA		200	8	
••••MELOSIRA		61	2	
••PENNALES	PENNATE			
•••ACHNANTHACEAE				
••••COCCONEIS		41	2	
•••CYMBELLACEAE				
••••AMPHORA		20	1	
••DIATOMACEAE				
••••DIATOMA		20	1	
••FRAGILARIACEAE				
••••SYNEDRA		100	4	
••NAVICULACEAE	NAVICULOID			
••••NAVICULA		160	6	
••NITZSCHIAEAE				
••••HANTZSCHIA		20	1	
••••NITZSCHIA		310	12	
TOTALS		960	38	2.700=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
•MYXOPHYCEAE				
••OSCILLATORIALES	FILAMENTOUS			
•••OSCILLATORIAEAE				
D ••••LYNGRYA		610	24	
D ••••OSCILLATORIA		820	32	
TOTALS		1,400	56	0.985=DIVERSITY

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

09522000. COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY,
ABOVE MORELOS DAM, NEAR ANDRADE, CALIF.--CONTINUED

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

MAR. 11, 1975
0000 HOURS

IDENTIFICATION OF PHYTOPLANKTON

5,800 CELLS/ML

_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
..CHLOROCOCCALES				
...OOCYSTACEAE				
....ANKISTRODESMUS				
	TOTALS	<u>43</u> 43	<u>1</u> 1	0.000=DIVERSITY
CHRYSOPHYTA	DIATOMS			
..BACILLARIOPHYCEAF	PENNATE			
..PENNALES				
...FUNOTIACEAE				
....FUNOTIA		86	1	
...NAVICULACEAE	NAVICULOID			
....NAVICULA		130	2	
....NEIDIUM		43	1	
...NITZSCHIACEAE				
....NITZSCHIA				
	TOTALS	<u>86</u> 340	<u>1</u> 5	1.906=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
..MYXOPHYCEAE				
..CHROOCOCCALES	COCCOID			
...CHROOCOCCACEAE				
....ANACYSTIS		43	1	
..OSCILLATORIALES	FILAMENTOUS			
...OSCILLATORIA				
D	TOTALS	<u>5,400</u> 5,400	<u>93</u> 94	0.067=DIVERSITY

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

APR. 8, 1975
0945 HOURS

IDENTIFICATION OF PHYTOPLANKTON

880 CELLS/ML

_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT	
CHRYSOPHYTA	DIATOMS			
..BACILLARIOPHYCEAE	CENTRIC			
..CENTRALES				
...COSGINODISCEAEF				
D ...CYCLOTELLA		160	19	
D ...MELOSIRA		290	33	
..PENNALES	PENNATE			
...ACHNANTHACEAE				
....COCCONEIS		37	4	
...FRAGILARIACEAE				
....ASTERIONELLA		110	12	
...GOMPHONEMATACEAE				
....GOMPHONEMA		73	8	
...NAVICULACEAE	NAVICULOID			
....AMPHIPRORA		18	2	
....DIPLOEIS		18	2	
D ...NAVICULA		150	17	
...NITZSCHIACEAE				
....NITZSCHIA				
	TOTALS	<u>18</u> 880	<u>2</u> 99	2.626=DIVERSITY

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

COLORADO RIVER MAIN STEM

09522000. COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY,
ABOVE MORELOS DAM, NEAR ANDRADE, CALIF.--CONTINUED

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

MAY 6, 1975
0805 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,600 CELLS/ML

_ORGANISM_NAME_____	_COMMON_NAME_____	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
..CHLOROCOCCALES				
...OOCYSTACEAE				
....ANKISTRODESMUS		42	3	
...SCENEDESMACEAE				
....SCENEDESMUS		42	3	
..TETRASPORALES				
...PALMELLACEAE				
....GLOEOCYSTIS				
	TOTALS	<u>21</u> 100	<u>1</u> 7	1.522=DIVERSITY
CHRYSOPHYTA				
..BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CENTRIC			
...COSCIDINODISCACEAE				
....COSCIDINODISCUS		21	1	
D ...CYCLOTELLA		710	46	
D ...MELOSIRA		270	18	
..PENNALES	PENNATE			
...ACHNANTHACEAE				
....ACHNANTHES		21	1	
...CYMBELLACEAE				
....CYMBELLA		21	1	
...DIATOMACEAE				
....DIATOMA		42	3	
...NAVICULACEAE	NAVICULOID			
....CALONEIS		21	1	
...NAVICULA		170	11	
...NITZSCHIACEAE				
....NITZSCHIA				
	TOTALS	<u>84</u> 1,400	<u>5</u> 87	2.098=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
..MYXOPHYCEAE				
...OSCILLATORIALES	FILAMENTOUS			
....OSCILLATORIAEAE				
...PHORMIDIUM				
	TOTALS	<u>84</u> 84	<u>5</u> 5	0.000=DIVERSITY

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

09522000. COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY,
 ABOVE MORELOS DAM, NEAR ANDRADE, CALIF.--CONTINUED

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

JUNE 10, 1975
 0830 HOURS

IDENTIFICATION OF PHYTOPLANKTON

4,200 CELLS/ML

_ORGANISM_NAME_____	_COMMON_NAME_____	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
..CHLOROCOCCALES				
...OOCYSTACEAE				
....ANKISTRODESMUS		210	5	
....SCENEDESMACEAE				
....SCENEDESMUS				
	TOTALS	<u>420</u> 620	<u>10</u> 15	0.918=DIVERSITY
CHRYSTOPHYTA				
..BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CENTRIC			
...COSCINODISCACEAE				
D...CYCLOTELLA		1,700	40	
...MELOSIRA		520	13	
..PENNALES	PENNATE			
...ACHNANTHACEAE				
....ACHNANTHES		100	3	
....RHOICOSPHEA		100	3	
...FRAGILARIACEAE				
...FRAGILARIA		210	5	
...NAVICULACEAE	NAVICULOID			
....DIPLONEIS		100	3	
....NAVICULA		310	8	
...NITZSCHIACEAE				
....NITZSCHIA				
	TOTALS	<u>420</u> 3,400	<u>10</u> 85	2.306=DIVERSITY
EUGLENOPHYTA	EUGLENOIDS			
..EUGLENOPHYCEAE				
..EUGLENALES				
...EUGLENACEAE				
....EUGLENA				
	TOTALS	<u>100</u> 100	<u>3</u> 3	0.000=DIVERSITY

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

09522000. COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY,
ABOVE MORELOS DAM, NEAR ANDRADE, CALIF.--CONTINUED

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

OCT. 7, 1975
0850 HOURS

IDENTIFICATION OF PHYTOPLANKTON

13,000 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
...CHLOROCCOCALES				
...CHARACIACEAE				
...SCHROEDERIA		100	1	
...OOCYSTACEAE				
...DICTYOSPHAERIUM		1,200	10	
...SELENASTRUM		100	1	
...TETRAEDRON		100	1	
...SCENEDESMACEAE				
...CRUCIGENIA		420	3	
...SCENEDESMUS		210	2	
..VOLVOCALES				
...CHLAMYDOMONADACEAE				
...CHLAMYDOMONAS				
	TOTALS	<u>520</u> 2,700	<u>4</u> 22	2.215=DIVERSITY
CHRYSOPHYTA				
..BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CENTRIC			
...COSCINODISCACEAE				
...CYCLOTELLA		1,100	9	
D ...MELOSIRA		2,000	15	
..PENNALES	PENNATE			
...ACHNANTHACEAE				
...COCCONEIS		210	2	
...CYMBELLACEAE				
...AMPHORA		210	2	
...CYMBELLA		620	5	
...FRAGILARIACEAE				
...FRAGILARIA		210	2	
...GOMPHONEMATAACEAE				
...GOMPHONEMA		100	1	
..NAVICULACEAE	NAVICULOID			
L ...GYROSIGMA			0	
...NAVICULA		620	5	
...NITZSCHIACEAE				
...NITZSCHIA				
	TOTALS	<u>1,100</u> 6,200	<u>9</u> 50	2.676=DIVERSITY
..CHRYSOPHYCEAE	YELLOW-BROWN ALGAE			
..CHRYSONADALES				
...OCHROMONADACEAE				
...OCHROMONAS				
	TOTALS	<u>100</u> 100	<u>1</u> 1	0.000=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
..MYXOPHYCEAE				
...CHROOCOCCALES	COCCOID			
...CHROOCOCCACEAE				
...AGMENELLUM		1,700	13	
...OSCILLATORIALES	FILAMENTOUS			
...OSCILLARIACEAE				
D ...OSCILLATORIA				
	TOTALS	<u>2,300</u> 3,900	<u>18</u> 31	0.982=DIVERSITY

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

09522000. COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY,
ABOVE MORELOS DAM, NEAR ANDRADE, CALIF.--CONTINUED

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

NOV. 11, 1975
0830 HOURS

IDENTIFICATION OF PHYTOPLANKTON

3,600 CELLS/ML

_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
.CHLOROPHYCEAE				
..CHLOROCOCCALES				
...OOCYSTACEAE				
....TETRAEDRON				
	TOTALS	39	1	0.000=DIVERSITY
CHRYSOPHYTA				
.BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CENTRIC			
...COSCINODISCACEAE				
D ...CYCLOTELLA		1,300	35	
D ...MELOSIRA		1,600	44	
..PENNALES	PENNATE			
...ACHNANTHACEAE				
....ACHNANTHES		77	2	
...CYMBELLACEAE				
....CYMBELLA		39	1	
...NAVICULACEAE	NAVICULOID			
....NAVICULA		230	6	
...NITZSCHIACEAE				
....NITZSCHIA		77	2	
	TOTALS	3,300	90	1.637=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
.MYXOPHYCEAE				
..OSCILLATORIALES	FILAMENTOUS			
...OSCILLATORIAEAE				
....LYNGBYA				
	TOTALS	310	9	0.000=DIVERSITY

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

DEC. 9, 1975
0830 HOURS

IDENTIFICATION OF PHYTOPLANKTON

860 CELLS/ML

_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
.CHLOROPHYCEAE				
..VOLVOCALES				
...CHLAMYDOMONADACEAE				
....CHLAMYDOMONAS				
	TOTALS	15	2	0.000=DIVERSITY
CHRYSOPHYTA				
.BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CENTRIC			
...COSCINODISCACEAE				
....CYCLOTELLA		89	10	
D ...MELOSIRA		390	45	
..PENNALES	PENNATE			
...ACHNANTHACEAE				
....COCCONEIS		15	2	
...CYMBELLACEAE				
....AMPHORA		15	2	
...FRAGILARIACEAE				
L ...FRAGILARIA			0	
...NAVICULACEAE	NAVICULOID			
....AMPHIPRORA		15	2	
D ...NAVICULA		150	17	
...STAURONEIS		15	2	
...NITZSCHIACEAE				
D ...NITZSCHIA		150	17	
...SURIRELLACEAE				
....SURIRELLA		15	2	
	TOTALS	850	99	2.251=DIVERSITY

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

COLORADO RIVER MAIN STEM

09522000. COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY,
ABOVE MORELOS DAM, NEAR ANDRADE, CALIF.--CONTINUED

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

JAN. 13, 1976
0830 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1.200 CELLS/ML

ORGANISM_NAME	COMMON_NAME	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
..VOLVOCALES				
...CHLAMYDOMONADACEAE				
...CHLAMYDOMONAS				
	TOTALS	13	1	0.000=DIVERSITY
		13	1	
CHRYSOPHYTA				
..BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CENTRIC			
...COSCINODISCEAE				
...CYCLOTELLA		170	14	
...MELOSIRA		170	14	
..PENNALES	PENNATE			
...ACHNANTHACEAE				
...ACHNANTHES		13	1	
...COCCONEIS		13	1	
...CYMBELLACEAE				
...AMPHORA		13	1	
L ...CYMBELLA			0	
...FRAGILARIACEAE				
D ...FRAGILARIA		260	21	
...NAVICULACEAE	NAVICULOID			
...AMPHIPRORA		13	1	
...NAVICULA		64	5	
...NEIDIUM		13	1	
...NITZSCHIACEAE				
D ...NITZSCHIA		180	15	
...SURIRELLACEAE				
...SURIRELLA				
	TOTALS	910	75	2.663=DIVERSITY
		13	1	
CYANOPHYTA	BLUE-GREEN ALGAE			
..MYXOPHYCEAE				
..OSCILLATORIALES	FILAMENTOUS			
...OSCILLATORIACEAE				
D ...LYNGBYA		260	21	
L ...OSCILLATORIA			0	
	TOTALS	260	21	0.000=DIVERSITY
		260	21	
EUGLENOPHYTA	EUGLENOIDS			
..EUGLENOPHYCEAE				
..EUGLENALES				
...EUGLENACEAE				
...TRACHELONAS				
	TOTALS	26	2	0.000=DIVERSITY
		26	2	

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

09522000. COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY,
ABOVE MORELOS DAM, NEAR ANDRADE, CALIF.--CONTINUED

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

FEB. 10, 1976
0835 HOURS

IDENTIFICATION OF PHYTOPLANKTON

560 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
...CHLOROCOCCALES				
...DOCYSTACEAE				
...ANKISTRODES MUS		27	5	
...SCENEDESMACEAE				
L ...SCENEDESMUS				
	TOTALS	27	5	0.000=DIVERSITY
CHRYSOPHYTA				
..BACILLARIOPHYCEAF	DIATOMS			
..CENTRALES	CENTRIC			
...COSCIDINODISCACEAF				
D ...CYCLOTELLA		240	43	
L ...MELOSI?A			0	
..PENNALES	PENNATE			
...ACHNANTHACEAE				
D ...ACHNANTHES		130	24	
L ...COCCONEIS			0	
..CYMBELLACEAE				
L ...AMPHORA			0	
..DIATOMACEAE				
L ...DIATOMA			0	
..FRAGILARIACEAE				
L ...FRAGILARIA			0	
..NAVICULACEAE	NAVICULOID			
...AMPHIPRORA		27	5	
...CALONEIS		27	5	
...NAVICULA		53	10	
...NITZSCHIA				
...NITZSCHIA		53	10	
...SURIPELLACEAE				
L ...SURIPELLA			0	
	TOTALS	530	97	2.115=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
..MYXOPHYCEAE				
..OSCILLATORIALES	FILAMENTOUS			
...OSCILLATORIA				
L ...OSCILLATORIA			0	

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

MAR. 9, 1976
0835 HOURS

IDENTIFICATION OF PHYTOPLANKTON

610 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT	
CHRYSOPHYTA				
..BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CENTRIC			
...COSCIDINODISCACEAF				
...CYCLOTELLA		53	9	
..PENNALES	PENNATE			
...ACHNANTHACEAE				
...ACHNANTHES		27	4	
...COCCONEIS		53	9	
...RHOICOSPHEA		27	4	
..CYMBELLACEAE				
L ...AMPHORA			0	
...CYMBELLA		27	4	
..GOMPHONEMACEAE				
...GOMPHONEMA		27	4	
..NAVICULACEAE	NAVICULOID			
L ...CALONEIS			0	
D ...NAVICULA		320	52	
...NITZSCHIA				
...NITZSCHIA		80	13	
...SURIPELLACEAE				
L ...CYMATOPLEURA			0	
	TOTALS	610	99	2.272=DIVERSITY

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

COLORADO RIVER MAIN STEM

09522000. COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY,
ABOVE MORELOS DAM, NEAR ANDRADE, CALIF.--CONTINUED

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

APR. 13, 1976
0830 HOURS

IDENTIFICATION OF PHYTOPLANKTON

2,700 CELLS/ML

_ORGANISM_NAME_____	_COMMON_NAME_____	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
...CHLOROCOCCALES				
...OOCYSTACEAE				
....ANKISTRODESMUS		67	2	
D ....DICTYOSPHAERIUM		<u>1,100</u>	<u>40</u>	
	TOTALS	1,100	42	0.323=DIVERSITY
CHRYSTOPHYTA				
..BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CENTRIC			
...COSCINODISCACEAE				
D ....CYCLOTELLA		1,300	47	
..PENNALES	PENNATE			
...ACHNANTHACEAE				
...ACHNANTHES		200	7	
L ....COCCONEIS			0	
...CYMBELLACEAE				
L ....AMPHORA			0	
...NAVICULACEAE	NAVICULOID			
...NAVICULA		67	2	
...NITZSCHIAEAE				
L ....NITZSCHIA			<u>0</u>	
	TOTALS	1,500	56	0.808=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
..MYXOPHYCEAE				
..OSCILLATORIALES	FILAMENTOUS			
...NOSTOCACEAE				
L ....ANABAENA			0	

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

MAY 11, 1976
0830 HOURS

IDENTIFICATION OF PHYTOPLANKTON

7,900 CELLS/ML

_ORGANISM_NAME_____	_COMMON_NAME_____	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
...CHLOROCOCCALES				
...OOCYSTACEAE				
....ANKISTRODESMUS		190	2	
....SELENASTRUM		190	2	
...SCENEDESMACEAE				
...SCENEDESMUS		750	10	
..ZYGNEMATALES				
...DESMIDIACEAE	PLACODERM DESMIDS			
L ....COSMARIUM			<u>0</u>	
	TOTALS	1,100	14	1.252=DIVERSITY
CHRYSTOPHYTA				
..BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CENTRIC			
...COSCINODISCACEAE				
D ....CYCLOTELLA		3,600	45	
D ....MELOSIRA		1,900	24	
..PENNALES	PENNATE			
...FRAGILARIACEAE				
L ....SYNEDRA			0	
...NAVICULACEAE	NAVICULOID			
...NAVICULA		750	10	
...NITZSCHIAEAE				
....NITZSCHIA			<u>7</u>	
	TOTALS	6,800	86	1.651=DIVERSITY

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

09522000. COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY,
 ABOVE MORELOS DAM, NEAR ANDRADE, CALIF.--CONTINUED

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

JUNE 8, 1976
 0830 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,800 CELLS/ML

ORGANISM_NAME	COMMON_NAME	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
...CHLOROCCOCCALS				
...MICRACTINIACEAE				
....MICRACTINIUM		160	9	
...OOCYSTACEAE				
....ANKISTRODESMUS		78	4	
...SCENEDESMACEAE				
....SCENEDESMUS				
TOTALS		310	18	
		550	31	1.379=DIVERSITY
CHRYSTOPHYTA				
..BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CENTRIC			
...COSCINODISCACEAE				
....CYCLOTELLA		120	7	
....MELOSIRA		78	4	
..PENNALES	PENNATE			
...ACHNANTHACEAE				
...COCCONEIS		78	4	
...CYMBELLACEAE				
....CYMBELLA		39	2	
...FRAGILARIACEAE				
....SYNEDRA		39	2	
...GOMPHONEMACEAE				
....GOMPHONEMA		78	4	
...NAVICULACEAE	NAVICULOID			
....NAVICULA		270	16	
...NITZSCHIACEAE				
....NITZSCHIA				
TOTALS		390	22	
		1,100	61	2.535=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
..MYXOPHYCEAE				
..CHROOCOCCALES	COCCOID			
...CHROOCOCCACEAE				
....ANACYSTIS		120	7	
TOTALS		120	7	0.000=DIVERSITY

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

COLORADO RIVER MAIN STEM

09522000. COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY,
ABOVE MORELOS DAM, NEAR ANDRADE, CALIF.--CONTINUED

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

JULY 13, 1976
0955 HOURS

IDENTIFICATION OF PHYTOPLANKTON

3,000 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
.CHLOROPHYCEAE				
..CHLOROCOCCALES				
...OOCYSTACEAE				
....ANKISTRODESMUS		94	3	
....TETRAEDRON		47	2	
....SCENEDESMACEAE				
D ....SCENEDESMUS				
	TOTALS	<u>1,600</u> 1,700	<u>54</u> 59	0.480=DIVERSITY
CHRYSTOPHYTA				
.BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CFNTRIC			
...COSCINODISCAEAE				
....CYCLOTELLA		230	8	
....MELOSIRA		140	5	
..PENNALES	PENNATE			
...CYMBELLACEAE				
....CYMBELLA		47	2	
...FRAGILARIACEAE				
....FRAGILARIA		94	3	
....SYNEDRA		47	2	
...NAVICULACEAE	NAVICULOID			
L ....AMPHIPRORA				
....NAVICULA		47	2	
...NITZSCHIAEAE				
D ....NITZSCHIA				
	TOTALS	<u>610</u> 1,200	<u>21</u> 43	2.144=DIVERSITY

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

09522000. COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY,
ABOVE MORELOS DAM, NEAR ANDRADE, CALIF.--CONTINUED

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

AUG. 10, 1976
0835 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,500 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PER_CENT	
CHLOROPHYTA	GREEN ALGAE			
.CHLOROPHYCEAE				
..CHLOROCOCCALES				
...OOCYSTACEAE				
....ANKISTRODESMUS		74	5	
...SCENEDESMACEAE				
....SCENEDESMUS		160	10	
..VOLVOCALES				
...CHLAMYDOMONADACEAE				
....CHLAMYDOMONAS				
	TOTALS	<u>21</u> 250	<u>1</u> 16	1.241=DIVERSITY
CHRYSOPHYTA				
.BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CENTRIC			
...COSCINODISCAEAE				
....CYCLOTELLA		95	6	
....MELOSIRA		32	2	
..PENNALES	PENNATE			
...ACHNANTHACEAE				
...COCCONEIS		42	3	
...FRAGILARIACEAE				
....FRAGILARIA		63	4	
...NAVICULACEAE	NAVICULOID			
....AMPHIPRORA		11	1	
....NAVICULA		160	10	
...NITZSCHIACEAE				
D ....NITZSCHIA		<u>260</u> 660	<u>17</u> 43	2.303=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
.MYXOPHYCEAE				
..CHROOCOCCALES	COCCOID			
...CHROOCOCCACEAE				
....ANACYSTIS		21	1	
..OSCILLATORIALES	FILAMENTOUS			
...OSCILLATORIAEAE				
....LYNGBYA		150	10	
D ....OSCILLATORIA		400	27	
....SPIRULINA		<u>11</u> 580	<u>1</u> 39	1.150=DIVERSITY
EUGLENOPHYTA	EUGLENOIDS			
.CRYPTOPHYCEAE	CRYPTOMONADS			
...CRYPTOMONIDALES				
...CRYPTOCHRYSIDACEAE				
....CHROOMONAS		<u>11</u> 11	<u>1</u> 1	0.000=DIVERSITY

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

COLORADO RIVER MAIN STEM

09522000. COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY,
ABOVE MORELOS DAM, NEAR ANDRADE, CALIF. --CONTINUED

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

SEP. 14, 1976.
0845 HOURS

IDENTIFICATION OF PHYTOPLANKTON

15.000 CELLS/ML

ORGANISM NAME	COMMON NAME	CELLS/ML	PERCENT	
CHLOROPHYTA	GREEN ALGAE			
..CHLOROPHYCEAE				
..CHLOROCCOCALES				
..COELASTRACEAE				
L. ....COELASTRUM			0	
..MICRACTINIACEAF				
..MICRACTINIUM		190	1	
..OOCYSTACEAE				
L. ....ANKISTRODESMUS			0	
..DICTYOSPHAERIUM		420	3	
..OOCYSTIS		240	2	
L. ....TETRAEDRON			0	
..SCENEDESMACEAE				
D. ....SCENEDESMUS		2,600	17	
L. ....TETRASTRUM			0	
..VOLVOCALES				
..CHLAMYDOMONADACEAE				
..CHLAMYDOMONAS		140	1	
..ZYGEMATALES				
..DESMIDIACEAE	PLACODERM DESMIDS			
I. ....STAURASTRUM			0	
	TOTALS	3,700	24	1.518=DIVERSITY
CHRYSTOPHYTA				
..BACILLARIOPHYCEAE	DIATOMS			
..CENTRALES	CENTRIC			
..COSCINODISCACEAF				
..CYCLOTELLA		2,000	13	
..MELOSIRA		240	2	
..PENNALES	PENNATE			
..ACHNANTHACEAE				
L. ....ACHNANTHES			0	
..CYMBELLACEAE				
I. ....AMPHORA			0	
..DIATOMACEAE				
L. ....DIATOMA			0	
..GOMPHONEMACEAE				
I. ....GOMPHONEMA			0	
..NAVICULACEAE	NAVICULOID			
I. ....CALONEIS			0	
I. ....GYROSIGMA			0	
..NAVICULA		420	3	
I. ....TROPIDONEIS			0	
..NITZSCHIA		470	3	
..NITZSCHIA				
..SIRIRELLACEAF				
L. ....SIRIRELLA			0	
	TOTALS	3,400	21	1.910=DIVERSITY
CYANOPHYTA	BLUE-GREEN ALGAE			
..MYXOPHYCEAE				
..CHROOCOCCOCALES	COCCOID			
..CHROOCOCCACEAE				
D. ....AGMENELLUM		3,400	22	
..ANACYSTIS		1,600	10	
..OSCILLATORIALES	FILAMENTOUS			
..NOSTOCACEAE				
..ANABAENA		850	6	
..CYLINDROSPERMUM		470	3	
..OSCILLATORIA				
..LYNGBYA		470	3	
..OSCILLATORIA		850	6	
..SPIRULINA		420	3	
	TOTALS	8,100	53	2.375=DIVERSITY
EUGLENOPHYTA	EUGLENOIDS			
..CRYPTOPHYCEAE	CRYPTOMONADS			
..CRYPTOMONIDALES				
..CRYPTOMONODACEAE				
..CRYPTOMONAS		190	1	
	TOTALS	190	1	0.000=DIVERSITY

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

DIVERSIONS AND RETURN FLOWS AT AND BELOW IMPERIAL DAM

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

LOCATION.--Lat 32°52'34", long 114°27'18", in SE¼SW¼ sec.30, T.6 S., R.21 W., Gila and Salt River meridian, Yuma County, on right bank 3,200 ft (975 m) downstream from intake at east end of Imperial Dam.

PERIOD OF RECORD.--August 1943 to current year.

GAGE.--Water-stage recorder. Datum of gage is 160.00 ft (48.768 m) above mean sea level.

AVERAGE DISCHARGE.--17 years (1959-76), 1,216 ft³/s (34.44 m³/s), 881,000 acre-ft/yr (1,090 hm³/yr).

EXTREMES.--Period of record: Maximum daily discharge, 2,240 ft³/s (63.4 m³/s) May 25, 1965; no flow at canal intake at times in several years when intake gates were closed.

REMARKS.--Records excellent except those below 100 ft³/s (2.8 m³/s), which are fair. Gila Gravity Main Canal diverts water from Colorado River at left end of Imperial Dam for irrigation of lands in the Gila Project area in Arizona. Diversions to this canal began Aug. 17, 1943. Diversions to North Gila Valley from this canal began Dec. 16, 1954. During the 1975 calendar year, water was used for irrigation of 103,354 acres (418 km²) divided as follows: North and South Gila Valleys, 16,217 acres (65.6 km²); Yuma Mesa Division, 18,412 acres (74.5 km²); Wellton-Mohawk Division, 65,529 acres (265 km²); Yuma Mesa Auxiliary Division, 3,196 acres (12.9 km²). Records of chemical analyses and water temperatures for the current water year are published on following pages.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1700	742	3.0	738	667	1490	1860	1600	1500	2040	1220	1980
2	1730	447	2.8	914	1090	1730	1530	1290	1610	1950	1810	1930
3	1440	860	2.7	954	1230	1860	1540	1730	1560	1580	1920	1820
4	1200	909	2.7	653	1380	1560	1130	1710	1520	1030	2010	1630
5	925	958	177	696	1060	1450	1730	1830	1260	1680	2100	1330
6	1560	1070	883	692	1050	996	1870	1810	992	1900	1980	1690
7	1780	927	677	606	924	886	1770	1470	1370	1990	1860	1560
8	1690	858	1270	578	705	1310	1650	1370	1660	1870	1650	1780
9	1600	609	1250	504	735	1390	1430	881	1680	1850	1960	1490
10	1200	925	1050	441	917	1460	1280	1550	1560	1730	2120	640
11	1020	1120	1040	413	775	1450	1010	1580	1660	1400	2150	807
12	962	1320	785	723	637	1120	1380	1560	1470	1900	2130	768
13	1070	1110	603	915	442	871	1540	1450	1030	2040	2020	1490
14	1210	853	608	896	277	718	1340	1390	1620	2020	1930	1450
15	1350	749	953	814	287	952	790	1110	1570	1920	1650	1510
16	1380	728	1200	807	287	1420	706	858	1730	1980	1910	1560
17	999	1130	1220	653	476	1480	357	1550	1710	1480	2040	1180
18	799	1320	1190	410	541	1570	462	1630	1770	1210	1910	1160
19	546	1400	1220	832	544	1250	1350	1620	1410	1810	1910	1080
20	954	1270	893	923	648	1130	1640	1420	1090	1790	1940	1520
21	1000	1240	458	943	619	1070	1720	1550	1490	1870	1530	1630
22	1050	1070	637	717	619	1540	1740	1030	1570	1930	1360	1490
23	1010	1310	370	634	1000	1470	1580	890	1780	1820	1960	1500
24	884	1510	52	365	924	1660	1420	1220	1950	1520	1940	980
25	537	1330	23	190	885	1580	1230	1420	1630	1140	1900	519
26	547	679	312	570	1120	1530	1750	1530	1580	1710	1940	318
27	1080	16	289	807	1270	1270	1950	1530	1320	1400	1920	594
28	883	7.3	387	834	992	1200	1970	1450	1570	1420	1820	715
29	899	4.1	499	790	764	1580	1970	1250	1870	1500	1490	603
30	1010	3.4	768	988	---	1830	1630	858	1940	1560	1880	674
31	770	---	511	765	---	1870	---	1420	---	1470	1980	---
TOTAL	34785	26474.8	19336.2	21765	22865	42693	43325	43557	46672	52510	57940	37398
MEAN	1122	882	624	702	788	1377	1444	1405	1556	1694	1869	1247
MAX	1780	1510	1270	988	1380	1870	1970	1830	1950	2040	2150	1980
MIN	537	3.4	2.7	190	277	718	357	858	992	1030	1220	318
AC-FT	69000	52510	38350	43170	45350	84680	85940	86400	92570	104200	114900	74180

CAL YR 1975 TOTAL 466665.0 MEAN 1279 MAX 2060 MIN 2.7 AC-FT 925600
WTR YR 1976 TOTAL 449321.0 MEAN 1228 MAX 2150 MIN 2.7 AC-FT 891200

DIVERSIONS AND RETURN FLOWS AT AND BELOW IMPERIAL DAM

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

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

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

EXTREMES.--Current year:

Water temperatures: Maximum, 30.0°C July 9, 26-28, 30, 31; minimum, 8.5°C on several days during January.

Period of record:

Water temperatures: Maximum, 33.0°C Aug. 29-31, 1970; minimum, 7.0°C Jan. 13-17, 1964, Jan. 4-7, 1971.

REMARKS.--Temperature probe above water surface Nov. 27 to Dec. 4. Unpublished chemical analyses (partial record) for water years 1965-67 available from district office in Tucson, Ariz.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORPTION RATIO	DIS-SOLVED POTASSIUM (K) (MG/L)
OCT 15...	1310	1310	1290	8.2	20.0	350	210	89	32	140	3.2	5.2
JAN 28...	1345	844	1310	8.2	12.0	360	220	93	32	130	3.0	5.4
APR 30...	1115	1700	1250	8.1	21.5	360	210	90	33	130	3.0	5.2
JUL 28...	1250	1330	1250	8.1	29.5	360	220	90	33	130	3.0	5.4

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SI02) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
OCT 15...	175	0	340	120	.5	9.0	869	823	1.18	.13	180	0
JAN 28...	176	0	330	120	.4	8.5	860	808	1.17	.35	170	0
APR 30...	183	0	330	110	.4	5.4	825	795	1.12	.15	160	10
JUL 28...	173	0	320	120	.5	9.9	799	795	1.09	.11	160	20

DIVERSIONS AND RETURN FLOWS AT AND BELOW IMPERIAL DAM

09523000. ALL-AMERICAN CANAL NEAR IMPERIAL DAM, ARIZ.-CALIF.

LOCATION.--Lat 32°52'17", long 114°28'47", in SE¼NW¼ sec.17, T.15 S., R.24 E., San Bernardino meridian, in California, Imperial County, on left bank 6,000 ft (1,829 m) downstream from intake at west end of Imperial Dam and 13.7 mi (22.0 km) upstream from turnout to Yuma Main Canal.

PERIOD OF RECORD.--October 1938 to current year. Prior to October 1939 monthly discharge only, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 150.00 ft (45.720 m) above mean sea level (subject to undetermined changes caused by earthquake of May 18, 1940). Since Aug. 21, 1952, auxiliary water-stage recorder 18.5 mi (29.8 km) downstream from base gage.

AVERAGE DISCHARGE.--35 years (1941-76), 6,937 ft³/s (196.5 m³/s), 5,026,000 acre-ft/yr (6,200 hm³/yr).

EXTREMES.--Period of record: Maximum daily discharge, 13,500 ft³/s (382 m³/s), Apr. 16, 1938; no flow at times.

REMARKS.--Records excellent. All-American Canal diverts water from Colorado River at Imperial Dam. Water is used for power development and for irrigation in Yuma, Coachella, and Imperial Valleys. Water can be released back to the river through Pilot Knob powerplant and wasteway for power, regulatory purposes, or for downstream use in Mexico. First diversion to All-American Canal began October 1938, but prior to October 1940 was used only for priming canal.

COOPERATION.--Gage-height record furnished by Imperial Irrigation District.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7010	4950	4190	4640	4980	8150	10500	9790	6800	8310	7150	8200
2	6680	4520	3980	4740	5070	8580	10300	9370	6780	8420	7600	8030
3	6440	4480	4180	4160	5460	8640	10300	9650	6930	8150	7680	7960
4	6370	4350	4430	3840	6010	9070	9980	9510	6910	7600	7960	7410
5	6180	4650	4440	3980	6310	8950	10000	9630	7000	7550	8400	6730
6	6620	4940	4550	4680	5600	8280	10100	9260	6270	8050	8790	6330
7	6820	4610	4330	4930	4480	7640	10300	8760	6410	8430	8950	6750
8	6750	4300	4450	5400	3970	7850	10500	7610	6530	9020	8980	6250
9	6720	3920	4560	5250	3250	7760	10500	6150	6720	8520	8900	5660
10	6510	4070	4850	4730	3160	7850	10500	5960	6830	8750	9010	4610
11	6200	4340	4960	3940	3760	7830	10300	6250	6600	8650	9110	4650
12	5870	4470	4880	4060	2890	7700	10400	6330	6800	8790	9180	3590
13	5750	4420	4850	4080	2800	7930	10100	6650	6560	9040	9150	2300
14	5670	4330	4510	4200	2830	7740	8680	6770	6890	9210	8870	2590
15	5670	4320	4790	3970	2710	8360	9280	6930	6950	9250	8460	2660
16	5490	4260	4900	3960	2500	8580	7520	7040	7150	8730	8900	3070
17	5400	4510	5370	4010	2420	9030	5750	7320	7380	8730	9050	3210
18	5350	4670	5690	4030	2270	9010	5340	7880	7190	8470	8920	3230
19	5150	4730	5390	4530	2900	9170	6700	8120	7520	8510	8840	3800
20	5170	4590	5310	4840	3190	9360	7460	8260	6880	8850	8820	4170
21	5250	4590	5230	4910	3330	9220	8420	7970	7060	8850	8760	4650
22	5360	4650	5630	5170	3540	9390	9380	7440	7440	8610	8610	5020
23	5040	4350	5430	4940	5050	9810	9480	6840	7510	8140	8940	5260
24	5100	4240	3890	4860	6290	10000	9840	6910	7550	8180	9160	5250
25	5050	4270	3140	4780	7320	10200	10000	7150	7330	7960	9190	7550
26	4880	4270	3950	4920	7980	10100	10400	6820	7490	8290	8740	7160
27	5090	4210	4670	4940	8370	10100	10600	6560	7420	8370	8570	8650
28	5190	4270	5250	5080	8480	10100	10500	6340	7560	8480	8550	4330
29	5500	4030	5770	5190	8240	10200	10300	6430	7690	8100	8130	4000
30	5740	4190	6270	5240	---	10300	10100	6780	8350	7590	8240	4110
31	5570	---	5570	5230	---	10400	---	6630	---	7420	8580	---
TOTAL	179590	132600	149410	143230	135160	277300	283530	233110	212500	261020	268190	157180
MEAN	5793	4420	4820	4620	4661	8945	9451	7520	7083	8420	8651	5239
MAX	7010	4950	6270	5400	8480	10400	10600	9790	8350	9250	9190	8650
MIN	4880	3920	3140	3840	2270	7640	5340	5960	6270	7420	7150	2300
AC-FT	356200	263000	296400	284100	268100	550000	562400	462400	421500	517700	532000	311800
CAL YR 1975	TOTAL	2467090	MEAN	6759	MAX	10200	MIN	2790	AC-FT	4893000		
WTR YR 1976	TOTAL	2432820	MEAN	6647	MAX	10600	MIN	2270	AC-FT	4825000		

09527000. PILOT KNOB POWERPLANT AND WASTEWAY NEAR PILOT KNOB, CALIF.

LOCATION.--Lat 32°44'15", long 114°42'56", in NW¼SW¼ sec.25, T.16 S., R.21 E., San Bernardino meridian, Imperial County, 2 mi (3 km) east of summit of Pilot Knob, 6 mi (10 km) west of Yuma Ariz., and 20.8 mi (33.5 km) downstream from intake of All-American Canal at Imperial Dam.

PERIOD OF RECORD.--February 1939 to current year. Prior to October 1943 monthly discharge only, published in WSP 1313. Prior to October 1956, published as Pilot Knob wasteway near Pilot Knob.

GAGE.--Totalizing flowmeter on each turbine. In addition, water-stage recorder in forebay on right bank of All-American Canal (also used as auxiliary gage for sta 09527500); tailrace gage with remote recorder logged hourly in control house; calibrated wicket gates for turbine flow and calibrated bypass gates for wasteway flow which are logged for each change. Datum of forebay staff gage is 150.00 ft (45.720 m); that of tailrace staff gage is 0.00 ft (0.000 m); elevation of sill of bypass gates is 147.88 ft (45.074 m) above mean sea level.

EXTREMES.--Period of record: Maximum daily discharge, 8,350 ft³/s (236 m³/s) Jan. 26, 1958; no flow for long periods.

REMARKS.--Records excellent above 1,200 ft³/s (34.0 m³/s) and good below. Daily discharge computed from flowmeter equipment or from head and gate openings on wicket gates. Records show water released through Pilot Knob powerplant and wasteway from All-American Canal and returned to Colorado River through Rockwood gates. Pilot Knob wasteway completed in summer of 1938 and first flow occurred Feb. 5, 1939. Pilot Knob powerplant was completed in January 1957 and first flow occurred Jan. 14, 1957. See table below for monthly return flow by Pilot Knob wasteway only.

COOPERATION.--Midnight readings of flowmeter, recorder graph of forebay, and record of tailrace elevation and gate openings furnished by Imperial Irrigation District.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	1050	0	2090	2770	1600	0	1260	1310	0
2		0	0	954	0	1760	2830	1460	0	1250	1370	0
3		0	0	0	0	1520	2830	1450	0	1090	1500	0
4		0	0	0	0	1480	2760	1150	0	1240	1520	0
5		0	565	42	0	1500	2760	1200	0	1290	1500	0
6		0	1010	1030	43	1540	2760	1160	0	1320	1480	0
7		0	1010	1020	1010	1640	2860	1170	0	1330	1500	0
8		0	1010	1040	1060	2020	2940	1140	0	1350	1520	0
9		0	1010	999	1120	1940	3000	0	0	1110	1480	0
10		0	1010	978	1500	1870	3080	0	0	1150	1540	1490
11		0	1020	0	1970	1880	3010	0	0	1300	1550	3080
12		0	1070	0	1180	1820	3010	0	0	1520	1490	1560
13		0	1070	0	1240	1900	2970	0	0	1550	1470	0
14		0	1060	0	1300	1980	4000	0	0	1590	1430	0
15		0	1250	0	1220	2070	5920	0	0	1540	1440	0
16		0	1220	0	1140	2110	4520	0	0	1570	1440	0
17		0	1330	0	715	2170	2490	0	0	1590	1460	0
18		0	1370	0	0	2160	1750	0	0	1540	1440	0
19		0	1380	0	0	2130	2140	0	0	1380	1200	0
20		0	1410	0	0	2200	2030	0	0	1460	1200	0
21		0	1380	0	0	2230	2120	0	0	1590	1220	0
22		0	1530	0	41	2280	2150	0	0	1680	1210	0
23		0	1520	0	1100	2340	2210	0	0	1580	1400	0
24		0	1500	0	1460	2370	2290	0	0	1600	1450	915
25		0	1520	0	1750	2170	2200	0	0	1580	1430	3300
26		0	1240	0	2080	2230	2220	0	0	1600	1400	3140
27		0	1610	0	2330	2330	2000	0	0	1650	1390	4640
28		0	1640	0	2440	2300	1870	0	0	1700	1330	555
29		39	1780	0	2390	2370	1910	0	0	1700	1150	0
30		940	1780	0	---	2330	1890	0	1160	1620	1100	0
31		---	1370	0	---	2420	---	0	---	1360	1120	---
TOTAL	0	979	34665	7113	27089	63150	81290	10330	1160	45090	43040	18680
MEAN	0	32.6	1118	229	934	2037	2710	333	38.7	1455	1388	623
MAX	0	940	1780	1050	2440	2420	5920	1600	1160	1700	1550	4640
MIN	0	0	0	0	0	1480	1750	0	0	1090	1100	0
AC-FT	0	1940	68760	14110	53730	125300	161200	20490	2300	89440	85370	37050
CAL YR 1975	TOTAL	335431		MEAN 919	MAX 3720	MIN 0	AC-FT 665300					
WTR YR 1976	TOTAL	332586		MEAN 909	MAX 5920	MIN 0	AC-FT 659700					

DIVERSIONS AND RETURN FLOWS AT AND BELOW IMPERIAL DAM

09527500. ALL-AMERICAN CANAL BELOW PILOT KNOB WASTEWAY, CALIF.

LOCATION.--Lat 32°44'07", long 114°43'23", in NW¼SE¼ sec.26, T.16 S., R.21 E., San Bernardino meridian, Imperial County, on left bank 0.4 mi (0.6 km) downstream from Pilot Knob wasteway, 6 mi (10 km) west of Yuma, Ariz., 15 mi (24 km) upstream from turnout to Coachella Canal, and 21.2 mi (34.1 km) downstream from intake at Imperial Dam.

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

GAGE.--Water-stage recorder. Datum of gage is 150.00 ft (45.720 m) above mean sea level. Auxiliary water-stage recorder on right bank 0.4 mi (0.6 km) upstream used to determine head on Pilot Knob check gates (also used as forebay gage for sta 09527000, Pilot Knob powerplant and wasteway). Datum of auxiliary gage is 150.00 ft (45.720 m) above mean sea level.

AVERAGE DISCHARGE.--15 years, 4,729 ft³/s (133.9 m³/s), 3,426,000 acre-ft/yr (4,220 hm³/yr).

EXTREMES.--Period of record: Maximum daily discharge, 7,610 ft³/s (216 m³/s) April 27, 28, 1976; no flow Jan. 4, 1967.

REMARKS.--Records excellent. Water is used for power development at three sites below station, and for irrigation in Coachella and Imperial Valleys.

COOPERATION.--Gage-height record and log of gate operation furnished by Imperial Irrigation District.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6000	4240	3050	3300	3940	5420	6760	7400	5720	6000	5420	6710
2	5850	4280	2870	3330	3900	6090	6640	7340	5600	6120	5640	6790
3	5710	4230	2980	3070	4310	6320	6660	7540	5670	6090	5520	6800
4	5730	4080	3050	2970	4740	6540	6700	7540	5730	5730	5660	6510
5	5620	4160	2980	2880	4800	6420	6740	7530	5840	5580	5760	5980
6	5820	4100	2900	3100	4190	5880	6650	7360	5590	5810	6080	5480
7	5830	3850	2800	3260	2780	5340	6610	7010	5570	5900	6280	5540
8	5750	3670	2850	3730	2380	5150	6440	6120	5570	6250	6420	5190
9	5850	3340	2870	3640	1720	5150	6500	5310	5600	6250	6360	4700
10	5680	3340	3150	3020	1210	5210	6510	5190	5380	6510	6350	2230
11	5410	3410	3270	2600	1200	5180	6290	5320	5220	6400	6460	657
12	5160	3500	3210	2760	1130	6320	6130	5420	5500	6350	6470	1110
13	5110	3470	3190	2720	1080	5230	6000	5750	5370	6450	6430	1420
14	4850	3480	3030	2820	1200	5260	3980	5950	5520	6550	6390	1540
15	4820	3510	3040	2880	1030	5610	2770	6190	5530	6590	6380	1400
16	4700	3500	3110	3160	1010	5860	2510	6270	5600	6180	6640	1820
17	4600	3620	3500	3250	982	6170	2820	6640	5750	6210	6720	1970
18	4580	3590	3690	3270	1220	5980	3280	6720	5650	6080	6600	2000
19	4470	3580	3440	3550	1600	6150	4110	6610	5980	6180	6560	2470
20	4450	3590	3430	3680	2010	6270	4820	6760	5710	6370	6560	2930
21	4450	3530	3480	3870	2420	6230	5530	6560	5870	6230	6560	3400
22	4550	3460	3660	4100	2590	6180	6160	6210	6110	5970	6560	3780
23	4310	3240	3460	3840	3240	6380	6300	5890	6100	5720	6600	4120
24	4270	3050	2090	3700	3840	6610	6600	5920	5980	5840	6610	3260
25	4010	3000	1340	3750	4510	6900	6920	6090	5820	5860	6590	3390
26	3930	3020	2370	3790	4850	6730	7270	5830	5870	5920	6260	2960
27	3870	3050	2680	3720	5070	6650	7610	5640	5800	5820	6210	3280
28	3900	2920	3230	3770	5220	6760	7610	5530	5810	5830	6280	3180
29	4090	2940	3490	3890	5260	6870	7480	5570	6030	5520	6230	3350
30	4220	2840	3940	3930	---	6950	7300	5830	6080	5150	6270	3380
31	4280	---	3800	4070	---	6930	---	5670	---	5300	6330	---
TOTAL	151870	105590	95950	105420	83432	187550	177890	194710	171570	186760	195200	107347
MEAN	4899	3520	3095	3401	2877	6050	5930	6281	5719	6025	6297	3578
MAX	6000	4280	3940	4100	5260	6950	7610	7540	6110	6590	6720	6800
MIN	3870	2840	1340	2600	982	5130	2510	5190	5220	5150	5420	657
AC-FT	301200	209400	190300	209100	165500	372000	352800	386200	340300	370400	387200	212900
CAL YR 1975 TOTAL	1818890		MEAN 4983		MAX 7380	MIN 1340	AC-FT 3608000					
WTR YR 1976 TOTAL	1763289		MEAN 4818		MAX 7610	MIN 657	AC-FT 3497000					

Return surface flows below Imperial Dam, Ariz.-Calif.

Between Imperial Dam and the international boundary return surface flows from irrigated areas enter the Colorado River through many drains and wasteways in Arizona and California. Other return flows enter the Gila River below the gaging station near Dome (09520500). In addition, return flows collected by the Main Drain and East Main Canal are delivered across the international boundary for use in Mexico.

Diversions for irrigation in the Gila Project in Arizona are made at Imperial Dam by the Gila Gravity Main Canal. (See sta 09522500.) Diversions for the Yuma Project in Arizona and California are made at Imperial Dam by the All-American Canal (see sta 09523000) and by the Yuma Main Canal. (See stas 09524000 and 09525000.) See p. for records of diversions.

See figure 4 on p. 161 for a schematic diagram showing location of diversions and return flows.

09525000. YUMA MAIN CANAL WASTEWAY.--See daily table elsewhere in this report.

09527000. PILOT KNOB POWERPLANT AND WASTEWAY.--See daily table elsewhere in this report.

09527900. MITTRY LAKE OUTLET CHANNEL.

LOCATION.--Water-stage recorder and sharp-crested weir, in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.14, T.7 S., R.22 W., 1,000 ft (300 m) upstream from outlet to Colorado River and Laguna Dam.

PERIOD OF RECORD.--Monthly discharge October 1974 to current year.

REMARKS.--Record shows return flow to Colorado River from Mittry Lake. Prior to Nov. 6, 1974, records furnished by Bureau of Reclamation.

09528600. LAGUNA CANAL WASTEWAY.

LOCATION.--Water-stage recorder and sharp-crested weir, in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.14, T.7 S., R.22 W., 1,000 ft (300 m) downstream from Laguna Dam and 0.7 mi (1.1 km) upstream from outlet to Colorado River.

PERIOD OF RECORD.--Monthly discharge October 1960 to current year.

REMARKS.--Record shows waste water from North Gila Valley Irrigation District returned to Colorado River. Flow record computed from standard weir rating.

09528800. LEVEE CANAL WASTEWAY.

LOCATION.--Water-stage recorder and sharp-crested weir, in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.4, T.8 S., R.22 W., 1,000 ft (300 m) upstream from outlet to Colorado River.

PERIOD OF RECORD.--Monthly discharge October 1960 to current year.

REMARKS.--Record shows waste water from North Gila Valley Irrigation District returned to Colorado River.

09529000. NORTH GILA DRAIN NO. 1.

LOCATION.--Water-stage recorder, in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.4, T.8 S., R.22 W., 0.25 mi (0.40 km) upstream from outlet to Colorado River and 5.5 mi (8.8 km) downstream from Laguna Dam. No gage prior to Oct. 16, 1974.

PERIOD OF RECORD.--Monthly discharge October 1960 to current year.

REMARKS.--Record shows waste water from North Gila Valley Irrigation District returned to Colorado River. Prior to Oct. 16, 1974, flow records were computed by interpolation between discharge measurements made monthly.

09529050. NORTH GILA DRAIN NO. 3.

LOCATION.--Drain enters wasteway to Gila River in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.18, T.8 S., R.21 W., 1,000 ft (300 m) upstream from Gila River.

PERIOD OF RECORD.--Monthly discharge April 1962 to current year.

REMARKS.--Record shows seepage from Gila Gravity Main Canal. There is no gage; records are computed by interpolation between discharge measurements made monthly.

09529100. FORTUNA WASTEWAY.

LOCATION.--Water-stage recorder and sharp-crested weir, in NE $\frac{1}{4}$ sec.30, T.8 S., R.21 W., 1.3 mi (2.1 km) upstream from Gila River.

PERIOD OF RECORD.--Monthly discharge October 1960 to September 1963, October 1964 to current year.

REMARKS.--Record shows waste water spilled from Gila Gravity Main Canal; flow rarely reaches Gila River.

09529150. NORTH GILA MAIN CANAL WASTEWAY.

LOCATION.--Water-stage recorder in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.22, T.8 S., R.22 W., 1,000 ft (300 m) upstream from outlet to Gila River. Prior to July 1966 water-stage recorder and sharp-crested weir, 1 mi (1.6 km) upstream from outlet to Gila River.

PERIOD OF RECORD.--Monthly discharge October 1960 to current year.

REMARKS.--Record shows waste water from North Gila Valley Irrigation District. Prior to July 1966 record shows waste water less flow diverted for irrigation between gage and Gila River.

09529160. SOUTH GILA PUMP OUTLET CHANNEL NO. 3.

LOCATION.--Water-stage recorder in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.22, T.8 S., R.22 W., 0.5 mi (0.8 km) upstream from outlet to Gila River. Prior to Aug. 1, 1965, record obtained by Badger total-flow meter about 500 ft (150 m) downstream.

PERIOD OF RECORD.--Monthly discharge January 1965 to current year.

REMARKS.--Record shows water pumped from wells in South Gila Valley Unit.

Return surface flows below Imperial Dam, Ariz.-Calif.--Continued

09529200. BRUCE CHURCH DRAIN.

LOCATION.--At culvert in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.21, T.8 S., R.22 W., 0.2 mi (0.3 km) upstream from outlet to Gila River.

PERIOD OF RECORD.--Monthly discharge April 1962 to current year.

REMARKS.--Record shows seepage water from parts of secs.15, 16, and 21 (Bruce Church Ranch). Flow computed by interpolation between discharge measurements; prior to Nov. 30, 1970, flow determined from pump rating.

09529240. SOUTH GILA PUMP OUTLET CHANNEL NO. 2.

LOCATION.--Water-stage recorder in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.28, T.8 S., R.22 W., 0.6 mi (1.0 km) upstream from outlet to Gila River; prior to Oct. 18, 1965, outlet was to Wellton-Mohawk Main Outlet Drain. Prior to Aug. 1, 1965, Sparling meter at outlet to Wellton-Mohawk Main Outlet Drain.

PERIOD OF RECORD.--Monthly discharge January 1962 to current year.

REMARKS.--Record shows water pumped from wells in South Gila Valley Unit and conveyed by concrete channel to the Gila River.

09529250. BRUCE CHURCH WASTEWAY.

LOCATION.--Water-stage recorder and sharp-crested weir, in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.20, T.8 S., R.22 E., 500 ft (150 m) upstream from outlet to Gila River

PERIOD OF RECORD.--Monthly discharge October 1960 to current year.

REMARKS.--Record shows waste water from North Gila Valley Irrigation District returned to Gila River.

09529300. WELLTON-MOHAWK MAIN OUTLET DRAIN (CONVEYANCE CHANNEL).

LOCATION.--Water-stage recorder and Parshall flume in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.17, T.8 S., R.21 W., 7.8 mi (12.6 km) upstream from outlet to Gila River (M.O.D.E. 1), which is 0.6 mi (1.0 km) upstream from mouth of Gila River. Prior to Feb. 20, 1962, gage heights measured from reference point on measuring bridge. Prior to Oct. 1, 1974, gage located 1,000 ft (300 m) upstream without Parshall flume.

PERIOD OF RECORD.--Monthly discharge October 1960 to current year.

REMARKS.--Record shows water pumped from numerous wells in Wellton-Mohawk Irrigation and Drainage District to lower the water table. Flow can be discharged to the Gila River or Colorado River by any one of or combination of three outlets. These outlets are known as: M.O.D.E. 1 (release to Gila River about 8.0 mi (13 km) below station); M.O.D.E. 2 (see sta 09531800), release to Colorado River above Morelos Dam; and M.O.D.E. 3 (see sta 09531900), release to Colorado River below Morelos Dam. For water year 1976, 61 acre-ft (75,200 m³) was released to Gila River through M.O.D.E. 1.

09529360. SOUTH GILA PUMP OUTLET CHANNEL NO. 1.

LOCATION.--Water-stage recorder in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.30, T.8 S., R.22 W., 0.2 mi (0.3 km) upstream from outlet to Gila River, which is 0.6 mi (1.0 km) upstream from mouth of Gila River. Prior to Aug. 1, 1965, Sparling flowmeter 300 feet (90 m) upstream.

PERIOD OF RECORD.--Monthly discharge August 1961 to current year.

REMARKS.--Record shows water pumped from wells in South Gila Valley Unit and conveyed by concrete channel to Gila River.

09529400. SOUTH GILA DRAIN NO. 2.

LOCATION.--Near center of sec.24, T.8 S., R.23 W., at outlet to Colorado River. Prior to Oct. 1, 1969, Sparling flowmeter at same site.

PERIOD OF RECORD.--Monthly discharge October 1960 to current year.

REMARKS.--Record shows ground-water drainage and occasional waste water from South Gila Valley Unit returned to Colorado River. There is no gage; flow record computed by interpolation between discharge measurements made monthly.

09529420. SOUTH GILA TERMINAL WASTEWAY.

LOCATION.--Water-stage recorder and Parshall flume in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.36, T.8 S., R.23 W., 2.0 mi (3.2 km) upstream from outlet to Colorado River. Prior to Aug. 1, 1965, total-flow meter at same site.

PERIOD OF RECORD.--Monthly discharge March 1965 to current year.

REMARKS.--Record shows waste water from South Gila Canal of South Gila Valley Unit returned to Colorado River.

09529440. SOUTH GILA PUMP OUTLET CHANNEL NO. 4.

LOCATION.--Water-stage recorder and broad-crested weir, in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.26, T.8 S., R.23 W., 1.5 mi (2.4 km) upstream from outlet to Colorado River.

PERIOD OF RECORD.--Monthly discharge July 1965 to current year.

REMARKS.--Record shows water pumped from wells in South Gila Valley Unit and conveyed by concrete-lined channel to Colorado River.

09529600. RESERVATION DRAIN NO. 7.

LOCATION.--At downstream end of culvert on State Road 24 (formerly Avenue C), in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.33, T.15 S., R.23 E., San Bernardino meridian, 0.5 mi (0.8 km) upstream from outlet to Reservation Main Drain. Prior to Oct. 1, 1969, nonrecording gage at same site.

PERIOD OF RECORD.--Monthly discharge March 1966 to current year.

REMARKS.--Record shows drainage water from sec.34, T.15 S., R.23 E., and is used with sta 09529700 to determine seepage from All-American Canal. There is no gage; flow record computed by interpolation between discharge measurements made monthly. Beginning June 20, 1967, Imperial Irrigation District makes discharge measurements weekly.

Return surface flows below Imperial Dam, Ariz.-Calif.--Continued

09529700. RESERVATION MAIN DRAIN NO. 6.

LOCATION.--Nonrecording gage on upstream right piling of Stallnacker Road Bridge (formerly 9th Street Bridge), in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.32, T.15 S., R.23 E., San Bernardino meridian.

PERIOD OF RECORD.--Monthly discharge March 1966 to current year.

REMARKS.--Record shows waste and drainage water from the Reservation Division, and is used with sta 09529600 to determine seepage from All-American Canal, which parallels drain for 4 mi (6.4 km). Flow record computed by interpolation between discharge measurements made monthly. The Imperial Irrigation District makes discharge measurements weekly.

09529800. RESERVATION DRAIN NO. 2.

LOCATION.--At upstream side of bridge on White Road (formerly 8th Street), in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.6, T.16 S., R.23 E., San Bernardino meridian, 0.9 mi (1.4 km) upstream from outlet to Reservation Main Drain.

PERIOD OF RECORD.--Monthly discharge March 1966 to current year.

REMARKS.--Record used to compute seepage from All-American Canal in sec.31, T.15 S., R.22 E. There is no gage; flow record computed by interpolation between discharge measurements made monthly. The Imperial Irrigation District makes discharge measurements weekly.

09529900. RESERVATION DRAIN NO. 3.

LOCATION.--At Jackson Road Bridge (formerly 5th Street Bridge), in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.10, T.16 S., R.22 E., San Bernardino meridian, 1.0 mi (1.6 km) upstream from outlet to Reservation Main Drain.

PERIOD OF RECORD.--Monthly discharge March 1966 to current year.

REMARKS.--Record used to compute seepage from All-American Canal upstream from Yuma Main Canal. There is no gage; flow record computed by interpolation between discharge measurements made monthly. Imperial Irrigation District makes discharge measurements weekly.

09530000. RESERVATION MAIN DRAIN NO. 4.

LOCATION (REVISED).--Water-stage recorder in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.26, T.16 S., R.22 E., San Bernardino meridian, 500 ft (150 m) upstream from railroad culvert. Prior to January 1937, no gage. January 1937 to Apr. 16, 1941, nonrecording gages at culvert 500 ft (150 m) downstream at different datums. Apr. 16, 1941, to Dec. 16, 1971, water-stage recorder at culvert 500 ft (150 m) downstream. May 29, 1974, to Feb. 2, 1976, water-stage recorder with vane meter at present site. Flow enters Yuma Main Canal wasteway channel 200 ft (60 m) downstream from spillway structure. Prior to May 1955 it entered 500 ft (150 m) upstream from outlet of Yuma Main Canal wasteway in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.26, T.16 S., R.22 E., San Bernardino meridian.

PERIOD OF RECORD.--Monthly discharge January 1913 to April 1920, October 1921 to March 1925, January 1934 to current year (calendar year discharge only 1934-36). Prior to October 1955, Published as California drainage canal.

REMARKS.--Record shows waste and drainage water from area east of Yuma Main Canal on Reservation Division. Since 1939, seepage from All-American Canal has caused large increase. Flow is not included in the record of Yuma Main Canal wasteway.

09530200. YUMA MESA OUTLET DRAIN.

LOCATION.--Venturi meter with recorder in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.28, T.16 S., R.22 E., San Bernardino meridian, in Arizona, Yuma County, 0.3 mi (0.5 km) from outlet to Colorado River.

PERIOD OF RECORD.--Monthly discharge July 1970 to current year.

REMARKS.--Record shows water pumped from wells on the Yuma Mesa and conveyed by underground conduit to Colorado River.

COOPERATION.--Records furnished by Bureau of Reclamation prior to July 21, 1972.

09530400. RESERVATION DRAIN NO. 11.

LOCATION.--At outlet to Drain 8-B (Araz drain), in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.19, T.16 S., R.22 E., San Bernardino meridian.

PERIOD OF RECORD.--Monthly discharge March 1966 to current year.

REMARKS.--Record shows drainage from sec.20, T.16 S., R.22 E. Flow at this station, with that at sta 09530500, is used to determine seepage from All-American Canal. There is no gage; flow record computed by interpolation between discharge measurements made monthly. Beginning June 20, 1967, Imperial Irrigation District makes discharge measurements weekly.

09530500. DRAIN 8-B.

LOCATION.--Enters Colorado River in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.30, T.16 S., R.22 E., San Bernardino meridian, 4 mi (6.4 km) downstream from outlet of Yuma Main Canal wasteway.

PERIOD OF RECORD.--Monthly discharge March 1948 to current year. Prior to October 1955, published as Araz drain.

REMARKS.--Record shows seepage from All-American Canal, and waste and drainage water west of Yuma Main Canal on the Reservation Division. Flow at this station, with that at sta 09530400, is used to determine seepage from All-American Canal. There is no gage, but due to fairly constant drainage, flow record is computed by interpolation between discharge measurements made monthly. Imperial Irrigation District makes discharge measurements weekly at site 1,000 ft (300 m) upstream.

09531800. MAIN OUTLET DRAIN EXTENSION ABOVE MORELOS DAM (M.O.D.E. 2).

LOCATION.--Water-stage recorder and Parshall flume in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.36, T.16 S., R.21 E., San Bernardino meridian, at outlet to Colorado River, 1.7 mi (2.7 km) upstream from Morelos Dam.

PERIOD OF RECORD.--Monthly discharge November 1965 to current year.

REMARKS.--Record shows water conveyed to Colorado River 1.7 mi (2.7 km) above Morelos Dam, from numerous drainage wells in Wellton-Mohawk Irrigation and Drainage District. (See also stas 09529300 and 09531900.)

Return surface flows below Imperial Dam, Ariz.-Calif.--Continued

09531850. COOPER WASTEWAY.

LOCATION.--Water-stage recorder and weir, in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.28, T.8 S., R.24 W., 0.6 mi (1.0 km) upstream from Morelos Dam. Prior to July 14, 1971, at site 1 mi (1.6 km) downstream.

PERIOD OF RECORD.--Monthly discharge January 1934 to current year.

REMARKS.--Record shows waste water from Valley Division returned to Colorado River.

COOPERATION.--Record furnished by International Boundary and Water Commission (U.S. Section).

09531900. MAIN OUTLET DRAIN EXTENSION BELOW MORELOS DAM (M.O.D.E 3).

LOCATION.--Water-stage recorder and Parshall flume in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.28, T.8 S., R.24 W., at outlet to Colorado River just downstream from Morelos Dam.

PERIOD OF RECORD.--Monthly discharge November 1965 to current year.

REMARKS.--Record shows water conveyed to Colorado River below Morelos Dam, from numerous drainage wells in Wellton-Mohawk Irrigation and Drainage District. (See also stas 09529300, 09531800.)

COOPERATION.--Record furnished by International Boundary and Water Commission (U.S. Section).

09532500. ELEVEN MILE WASTEWAY.

LOCATION.--Water-stage recorder and regulating gate in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.8, T.9 S., R.24 W., 3.2 mi (5.1 km) downstream from Morelos Dam.

PERIOD OF RECORD.--Monthly discharge January 1924 to current year.

REMARKS.--Record shows waste water from Valley Division returned to Colorado River.

COOPERATION.--Record furnished by International Boundary and Water Commission (U.S. Section).

09533000. TWENTY-ONE MILE WASTEWAY.

LOCATION.--Water-stage recorder and weir in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.35, T.10 S., R.25 W., 0.6 mi (1.0 km) upstream from outlet to Colorado River, which is 2.4 mi (3.9 km) upstream from southerly international boundary and 2.6 mi (4.2 km) northwest of San Luis, Ariz. Prior to May 1, 1971, water-stage recorder and Parshall flume at site 200 ft (60 m) upstream.

PERIOD OF RECORD.--Monthly discharge March 1939 to current year.

REMARKS.--Record shows waste water from Valley Division returned to Colorado River.

COOPERATION.--Record furnished by International Boundary and Water Commission (U.S. Section).

09534000. MAIN DRAIN.

LOCATION.--Flowmeters in discharge pipes at pumping plant in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.11, T.11 S., R.25 W., 0.4 mi (0.6 km) west of San Luis, Ariz. Prior to Apr. 1, 1969, rated pumps with forebay and afterbay gages to measure head.

PERIOD OF RECORD.--Monthly discharge January 1919 to current year.

REMARKS.--Record shows flow which consists mostly of drainage water from the Valley Division which is pumped across the Arizona-Sonora boundary for use in Mexico. Flowmeters checked by discharge measurements made by International Boundary and Water Commission (U.S. Section).

COOPERATION.--Record furnished by International Boundary and Water Commission (U.S. Section).

09534300. WEST MAIN CANAL WASTEWAY.

LOCATION.--Water-stage recorder and weir, in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.11, T.11 S., R.25 W., 0.3 mi (0.5 km) upstream from outlet to Main drain, and 0.4 mi (0.6 km) west of San Luis, Ariz. Prior to Aug. 1, 1975, at site 150 ft (46 m) upstream from outlet to Main drain.

PERIOD OF RECORD.--Monthly discharge February 1971 to current year.

REMARKS.--Record shows waste water from Valley Division which is discharged across the Arizona-Sonora boundary for use in Mexico.

COOPERATION.--Record furnished by International Boundary and Water Commission (U.S. Section).

09534500. EAST MAIN CANAL WASTEWAY.

LOCATION.--Water-stage recorder and weir, in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.12, T.11 S., R.25 W., 0.3 mi (0.5 km) upstream from outlet to Main drain, and 0.2 mi (0.3 km) west of San Luis, Ariz.

PERIOD OF RECORD.--Monthly discharge January 1924 to June 1928, January 1932 to December 1933, April 1935 to current year. Calendar year estimates 1934 and 1935, published in WSP 1313.

REMARKS.--Record shows amount of unused water at the extreme end of the Valley Division which is discharged across the Arizona-Sonora boundary for use in Mexico.

COOPERATION.--Record furnished by International Boundary and Water Commission (U.S. Section).

Return surface flows below Imperial Dam, Ariz.--Calif.--Continued

MONTHLY RETURN FLOWS, IN ACRE-FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Month	Mittry Lake Outlet Channel 09527900	Laguna Canal wasteway 09528600	Levee Canal wasteway 09528800	North Gila Drain No. 1 09529000	North Gila Drain No. 3 09529050	Fortuna wasteway 09529100
October	633	0	106	504	0	30
November	541	.02	161	540	0	34
December	839	.4	131	308	0	35
CAL YR 1975	9,560	7.0	1,560	4,800	13	397
January	626	6.5	137	256	0	39
February	742	.7	139	424	0	32
March	720	1.2	148	364	0	34
April	766	.4	158	461	0	28
May	724	1.8	272	478	0	30
June	530	.4	178	425	0	45
July	788	0	128	560	.3	45
August	1,630	0	157	720	.3	46
September	1,360	3.6	172	710	0	40
WTR YR 1976	9,900	15	1,890	5,750	0.6	438

Month	North Gila Main Canal wasteway 09529150	South Gila Pump Outlet Channel No. 3 09529160	Bruce Church Drain 09529200	South Gila Pump Outlet Channel No. 2 09529240	Bruce Church wasteway 09529250
October	82	0	91	408	2.0
November	104	0	43	386	12
December	49	0	31	2,000	2.7
CAL YR 1975	745	7,140	784	18,150	82
January	21	266	41	1,150	1.8
February	43	389	33	1,520	21
March	56	1,240	39	2,220	1.4
April	71	2,070	30	1,870	15
May	38	298	38	1,280	0
June	45	18	52	1,740	22
July	34	1,500	66	2,100	0
August	56	779	60	1,780	5.4
September	88	7.8	54	1,170	.4
WTR YR 1976	685	6,560	578	17,610	84

Month	Wellton-Mohawk Main Outlet Drain 09529300	South Gila Pump Outlet Channel No. 1 09529360	South Gila Drain No. 2 09529400	South Gila Terminal wasteway 09529420	South Gila Pump Outlet Channel No. 4 09529440
October	18,500	2,200	0	32	4.3
November	18,220	1,960	18	35	.2
December	18,740	2,460	18	19	0
CAL YR 1975	210,200	28,260	192	331	1,080
January	18,170	2,060	18	51	.2
February	7,820	2,540	25	28	0
March	18,180	2,760	11	38	195
April	10,960	2,550	0	56	0
May	18,950	2,660	0	83	153
June	18,130	2,700	0	22	116
July	18,660	2,650	0	42	493
August	19,070	2,530	18	11	327
September	17,670	2,360	30	57	.3
WTR YR 1976	203,100	29,430	138	474	1,290

NOTE.--Yearly totals given above have been computed from total cfs-days and may differ slightly from the summation of monthly total acre-feet on occasion.

DIVERSIONS AND RETURN FLOWS AT AND BELOW IMPERIAL DAM

Return surface flows below Imperial Dam, Ariz.-Calif.--Continued

MONTHLY RETURN FLOWS, IN ACRE-FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Month	Reservation Drain No. 7 09529600	Reservation Main Drain No. 6 09529700	Reservation Drain No. 2 09529800	Reservation Drain No. 3 09529900	Reservation Main Drain No. 4 09530000	Yuma Mesa Outlet Drain 09530200
October	98	1,200	29	273	3,850	4,540
November	77	1,090	41	222	3,550	4,430
December	60	968	18	189	3,460	4,480
CAL YR 1975	1,130	12,140	184	2,720	40,710	56,280
January	63	922	6.1	212	3,270	4,370
February	55	813	5.8	238	3,020	3,290
March	85	912	16	252	3,820	4,230
April	101	966	23	258	3,860	2,640
May	109	1,130	26	300	4,050	4,500
June	113	1,130	12	273	3,760	4,430
July	112	1,200	12	264	3,540	4,410
August	130	1,250	16	285	3,690	4,490
September	129	1,200	18	307	3,900	2,250
WTR YR 1976	1,130	12,780	223	3,070	43,790	48,080

Month	Reservation Drain No. 11 09530400	Drain 8-B 09530500	M.O.D.E. 2 (above Morelos Dam) 09531800	Cooper wasteway 09531850	M.O.D.E. 3 (below Morelos Dam) 09531900
October	43	218	0	79	19,110
November	52	256	0	72	18,420
December	49	247	0	80	19,120
CAL YR 1975	369	2,080	0	766	214,700
January	35	221	0	112	18,720
February	29	155	0	64	7,840
March	45	189	0	58	18,470
April	59	186	0	95	10,870
May	58	204	0	126	19,090
June	55	220	0	60	18,060
July	61	234	0	107	18,830
August	58	240	0	45	19,190
September	60	244	0	25	17,860
WTR YR 1976	604	2,610	0	923	205,600

Month	Eleven Mile wasteway 09532500	Twenty-one Mile wasteway 09533000	Main Drain 09534000	West Main Canal wasteway 09534300	East Main Canal wasteway 09534500
October	45	0.6	8,580	424	705
November	243	0.2	7,550	506	658
December	62	0	7,290	550	591
CAL YR 1975	1,140	9.8	93,160	5,970	7,650
January	27	0	6,810	565	690
February	185	27	6,500	537	388
March	59	1.0	7,620	453	549
April	133	0	8,260	466	549
May	8	0	8,280	434	628
June	163	0	7,820	464	462
July	29	0	8,390	461	436
August	161	0	8,560	436	421
September	22	0	8,350	768	799
WTR YR 1976	1,140	29	94,000	6,060	6,880

NOTE.--Yearly totals given above have been computed from total cfs-days and may differ slightly from the summation of monthly total acre-feet on occasion.

PANAMINT VALLEY

10250800 DARWIN CREEK NEAR DARWIN, CA

LOCATION.--Lat 36°19'14", long 117°31'23", in NW¼SE¼SW¼ sec.34, T.18 S., R.41 E., Inyo County, on left bank 510 ft (155 m) downstream from Darwin Falls, 1.6 mi (2.6 km) upstream from unnamed tributary, and 5.2 mi (8.4 km) northeast of Darwin.

DRAINAGE AREA.--173 mi² (448 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 2,640 ft (805 m), from topographic map. Prior to Aug. 6, 1970, at site 190 ft (58 m) downstream at same datum.

REMARKS.--Records poor. No regulation above station. Town of Darwin pumps water above station for municipal supply.

AVERAGE DISCHARGE.--14 years, 0.44 ft³/s (0.012 m³/s), 319 acre-ft/yr (393,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,400 ft³/s (125 m³/s) Jan. 25, 1969, gage height, 8.40 ft (2.560 m), at site then in use, from floodmarks, on basis of slope-conveyance measurement of maximum flow; minimum daily, 0.05 ft³/s (0.001 m³/s) Aug. 30 to Sept. 4, 1969.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height, 20.42 ft (6.224 m), present site, from floodmarks, date and discharge unknown.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 10 ft³/s (0.28 m³/s) and maximum (*), from rating curve extended above 0.6 ft³/s (0.017 m³/s) on basis of velocity-area study at gage height 5.49 ft (1.673 m):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
May 6	1630	*107	3.03	4.78	1.457
July 17	0530	23.4	0.66	3.76	1.146

Minimum daily discharge, 0.18 ft³/s (0.005 m³/s) several days in March and April.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.24	.27	.27	.24	.21	.21	.18	.19	.24	.27	.27	.25
2	.24	.27	.27	.24	.21	.21	.18	.19	.24	.24	.24	.25
3	.24	.27	.24	.24	.21	.21	.18	.19	.21	.24	.27	.25
4	.24	.27	.24	.24	.21	.21	.21	.21	.21	.24	.27	.25
5	.24	.24	.24	.24	.21	.21	.21	.24	.21	.21	.24	.24
6	.24	.24	.24	.24	.32	.21	.21	5.9	.24	.21	.27	.24
7	.27	.24	.24	.24	.31	.21	.21	.79	.24	.21	.27	.24
8	.27	.24	.24	.24	.34	.21	.21	.48	.27	.21	.30	.24
9	.27	.24	.24	.24	.37	.21	.21	.40	.27	.21	.30	.24
10	.27	.24	.24	.24	.27	.21	.21	.36	.30	.21	.30	.50
11	.27	.24	.24	.24	.27	.21	.21	.30	.33	.21	.30	.30
12	.27	.24	.25	.24	.26	.21	.18	.27	.30	.24	.27	.27
13	.27	.24	.27	.24	.24	.18	.23	.27	.30	.24	.27	.24
14	.27	.24	.27	.24	.21	.19	.23	.27	.24	.21	.33	.24
15	.32	.24	.27	.24	.21	.21	.20	.27	.24	.21	.30	.24
16	.30	.24	.26	.24	.21	.21	.21	.24	.24	.27	.27	.24
17	.30	.24	.27	.24	.21	.21	.21	.24	.21	1.6	.27	.24
18	.30	.24	.27	.24	.21	.20	.23	.24	.21	.44	.27	.24
19	.27	.24	.27	.24	.21	.18	.20	.27	.21	.52	.27	.24
20	.27	.24	.27	.24	.21	.18	.20	.30	.21	.52	.27	.24
21	.30	.24	.27	.21	.21	.18	.20	.30	.21	.52	.27	.27
22	.30	.24	.27	.21	.21	.18	.20	.30	.21	.36	.27	.27
23	.24	.24	.27	.21	.21	.18	.20	.30	.24	.33	.26	.27
24	.24	.24	.27	.21	.21	.18	.20	.30	.24	.30	.26	.33
25	.26	.24	.27	.21	.21	.18	.18	.33	.24	.24	.26	.33
26	.27	.24	.27	.21	.21	.18	.21	.30	.24	.27	.26	.36
27	.27	.25	.27	.21	.21	.18	.21	.27	.24	.33	.26	.36
28	.27	.27	.24	.21	.21	.19	.21	.24	.24	.30	.26	.40
29	.27	.27	.24	.21	.21	.23	.21	.27	.21	.27	.26	.44
30	.27	.27	.24	.21	---	.21	.21	.24	.24	.27	.25	.40
31	.27	---	.24	.21	---	.20	---	.24	---	.40	.25	---
TOTAL	8.32	7.42	7.95	7.11	6.79	6.17	6.14	14.71	7.23	10.30	8.41	8.62
MEAN	.27	.25	.26	.23	.23	.20	.20	.47	.24	.33	.27	.29
MAX	.32	.27	.27	.24	.37	.23	.23	5.9	.33	1.6	.33	.50
MIN	.24	.24	.24	.21	.21	.18	.18	.19	.21	.21	.24	.24
AC-FT	17	15	16	14	13	12	12	29	14	20	17	17
CAL YR 1975	TOTAL	88.44	MEAN .24	MAX .37	MIN .13	AC-FT 175						
WTR YR 1976	TOTAL	99.17	MEAN .27	MAX 5.9	MIN .18	AC-FT 197						

10251100 SALT CREEK NEAR STOVEPIPE WELLS, CA

LOCATION.--Lat 36°35'58", long 117°00'46", in NE¼ sec.6, T.16 S., R.46 E., Inyo County, Death Valley National Monument, on left bank 3.0 mi (4.8 km) southeast of intersection of State Highway 190 and Stovepipe Wells Road, and 7.4 mi (11.9 km) east of Stovepipe Wells Hotel.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1974 to current year.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is -180 ft (-55 m), from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 363 ft³/s (10.3 m³/s) Feb. 9, 1976, gage height, 4.81 ft (1.466 m) based on slope-conveyance measurement of peak flow, minimum daily, 0.06 ft³/s (0.002 m³/s) June 16, 24, 25, 1974, Sept. 15, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5.0 ft³/s (0.14 m³/s) and maximum (*), based on slope-conveyance 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)	
Feb. 7	1315	255	7.22	4.61	1.405	Sept. 10	1930	269	7.62	4.64	1.414
Feb. 9	1245	*363	10.3	4.81	1.466						

Minimum daily discharge, 0.06 ft³/s (0.002 m³/s) Sept. 15.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	.15	.19	.34	.47	.31	.23	.33	.16	.10	.11	.13
2	.13	.15	.19	.35	.47	.28	.25	.29	.15	.10	.11	.12
3	.13	.16	.20	.37	.47	.36	.25	.29	.13	.10	.11	.12
4	.13	.16	.21	.38	.47	.33	.23	.28	.13	.10	.12	.13
5	.15	.16	.21	.39	.45	.31	.26	.28	.13	.11	.12	.16
6	.13	.16	.22	.39	1.4	.31	.28	.34	.13	.10	.11	.16
7	.13	.16	.23	.39	25	.33	.28	.48	.12	.09	.13	.16
8	.15	.16	.23	.40	2.6	.34	.26	.39	.12	.09	.13	.16
9	.15	.16	.24	.41	42	.34	.25	.36	.12	.09	.13	.16
10	.13	.16	.25	.40	3.4	.34	.26	.33	.16	.09	.13	11
11	.13	.16	.26	.41	1.4	.34	.23	.31	.16	.08	.13	1.7
12	.13	.16	.27	.42	.87	.29	.25	.26	.16	.09	.13	.16
13	.15	.17	.29	.42	.73	.33	.31	.26	.15	.09	.12	.09
14	.15	.17	.26	.43	.67	.34	.33	.26	.13	.09	.12	.08
15	.15	.17	.27	.43	.60	.33	.33	.23	.15	.09	.12	.06
16	.15	.17	.28	.43	.56	.29	.28	.23	.13	.08	.13	.08
17	.15	.17	.29	.44	.54	.29	.28	.22	.13	.10	.12	.20
18	.15	.17	.28	.45	.52	.28	.31	.22	.12	.10	.15	.20
19	.13	.17	.29	.43	.50	.23	.31	.20	.12	.10	.15	.19
20	.13	.18	.29	.43	.41	.22	.31	.22	.11	.10	.13	.22
21	.15	.18	.30	.43	.41	.26	.31	.22	.11	.10	.12	.19
22	.14	.18	.30	.44	.43	.28	.26	.22	.11	.10	.11	.17
23	.13	.18	.31	.45	.44	.29	.25	.20	.11	.11	.13	.17
24	.14	.18	.31	.45	.43	.28	.28	.20	.10	.10	.15	.17
25	.15	.18	.32	.44	.41	.25	.26	.20	.11	.10	.13	.16
26	.15	.18	.33	.44	.40	.22	.23	.19	.10	.10	.13	.16
27	.14	.18	.33	.45	.37	.28	.26	.17	.10	.10	.13	.16
28	.15	.18	.34	.46	.37	.25	.29	.16	.10	.11	.15	.15
29	.15	.18	.35	.46	.37	.23	.33	.16	.09	.11	.15	.16
30	.16	.19	.36	.47	---	.23	.34	.16	.09	.11	.15	.13
31	.14	---	.34	.46	---	.26	---	.16	---	.13	.15	---
TOTAL	4.38	5.08	8.54	13.06	87.16	9.02	8.30	7.82	3.73	3.06	4.00	16.90
MEAN	.14	.17	.28	.42	3.01	.29	.28	.25	.12	.099	.13	.56
MAX	.16	.19	.36	.47	.42	.36	.34	.48	.16	.13	.15	.11
MIN	.13	.15	.19	.34	.37	.22	.23	.16	.09	.08	.11	.06
AC-FT	8.7	10	17	26	173	18	16	16	7.4	6.1	7.9	34
CAL YR 1975	TOTAL	113.66	MEAN	.31	MAX	3.2	MIN	.07	AC-FT	225		
WTR YR 1976	TOTAL	171.05	MEAN	.47	MAX	42	MIN	.06	AC-FT	339		

DEATH VALLEY

10251300 AMARGOSA RIVER AT TECOPA, CA

LOCATION.--Lat 35°50'53", long 116°13'43", in NW¼NW¼SE¼ sec.9, T.20 N., R.7 E., Inyo County, on right bank 20 ft (6 m) upstream from county road, and 0.2 mi (0.3 km) west of Tecopa.

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

GAGE.--Water-stage recorder and culvert control. Altitude of gage is 1,310 ft (399 m), from topographic map.

REMARKS.--Records poor. No regulation. City of Tecopa pumps water for municipal use upstream. No gage height record July 1 to September 16.

AVERAGE DISCHARGE.--15 years, 2.75 ft³/s (0.078 m³/s), 1,990 acre-ft/yr (2.45 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,000 ft³/s (142 m³/s), estimated, Feb. 26, 1969, gage height, 18.34 ft (5.590 m), from floodmark; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 15 ft³/s (0.42 m³/s) and maximum (*), from rating curve extended above 32 ft³/s (0.91 m³/s) on basis of slope-area measurement at gage height 13.9 ft (4.24 m);

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)	
Feb. 9	0700	221	6.26	6.20	1.890	Sept. 11	Unknown	725	20.5	11.73	3.575
Feb. 11	0215	303	8.58	6.97	2.124	Sept. 24	0145	32	0.91	4.28	1.305
May 7	1800	22	0.62	4.12	1.256	Sept. 26	1745	*1060	30.0	13.19	4.020

Minimum daily discharge, no flow Oct. 1-4.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.05	1.5	1.3	2.4	1.0	.58	.19	.06	.02	.01	.01
2	0	.06	1.8	1.2	2.5	.66	.66	.15	.05	.02	.01	.01
3	0	.11	1.9	.81	2.6	1.4	.58	.12	.05	.02	.01	.01
4	0	.15	2.1	1.2	2.5	1.6	.52	.11	.05	.02	.01	.01
5	.01	.12	2.5	1.7	2.2	1.8	.58	.11	.05	.02	.01	.01
6	.01	.09	2.5	1.7	3.9	1.6	.58	.11	.05	.01	.01	.01
7	.01	.09	2.1	2.0	19	1.2	.75	4.7	.05	.01	.01	.01
8	.01	.12	1.9	1.9	18	1.1	.75	2.6	.05	.01	.01	.01
9	.01	.17	1.5	2.1	109	1.4	.58	.75	.05	.01	.01	.01
10	.01	.27	1.6	3.3	133	1.4	.58	.35	.05	.01	.01	206
11	.02	.40	1.7	3.4	205	1.2	.52	.20	.06	.01	.01	665
12	.02	.30	1.6	3.8	65	1.6	.40	.11	.06	.01	.01	527
13	.02	.20	1.7	3.4	30	.93	.45	.09	.06	.01	.01	317
14	.02	.35	2.0	3.1	15	.93	.66	.11	.04	.01	.01	125
15	.02	.40	1.1	2.5	8.2	1.0	.75	.07	.05	.01	.01	33
16	.02	.23	.90	2.8	5.2	.93	.93	.07	.04	.01	.01	.60
17	.02	.35	.99	2.9	3.6	1.1	.93	.06	.04	.01	.01	.46
18	.02	.23	.98	2.8	2.9	.93	.66	.05	.05	.01	.01	.38
19	.02	.23	1.1	3.3	2.3	.66	.66	.04	.04	.01	.01	.30
20	.02	.35	1.1	2.3	1.7	.75	.58	.06	.03	.01	.01	.20
21	.02	.45	1.3	1.8	1.3	.66	.58	.07	.02	.01	.01	.23
22	.03	.58	1.3	1.9	1.5	.66	.40	.09	.02	.01	.01	.17
23	.03	.66	1.9	2.2	1.5	.66	.35	.07	.02	.01	.01	.13
24	.03	.93	1.7	2.6	1.4	.66	.35	.06	.02	.01	.01	7.2
25	.03	.45	1.4	2.3	1.5	.58	.35	.06	.02	.01	.01	52
26	.03	.45	1.4	1.9	1.7	.45	.15	.06	.03	1.0	.01	581
27	.03	1.1	1.5	1.9	2.0	.58	.12	.06	.05	.03	.01	196
28	.02	1.2	1.8	2.0	1.9	.58	.15	.05	.04	.02	.01	40
29	.04	1.1	1.9	2.2	1.6	.75	.20	.05	.03	.01	.01	28
30	.07	1.2	1.6	2.3	---	.58	.23	.06	.02	.01	.01	12
31	.07	---	1.8	2.6	---	.66	---	.05	---	.01	.01	---
TOTAL	.66	12.39	50.17	71.21	648.4	30.01	15.58	10.73	1.25	1.38	.31	2791.76
MEAN	.021	.41	1.62	2.30	22.4	.97	.52	.35	.042	.045	.010	93.1
MAX	.07	1.2	2.5	3.8	205	1.8	.93	4.7	.06	1.0	.01	665
MIN	0	.05	.90	.81	1.3	.45	.12	.04	.02	.01	.01	.01
AC-FT	1.3	25	100	141	1290	60	31	21	2.5	2.7	.6	5540
CAL YR 1975	TOTAL	256.11	MEAN	.70	MAX	13	MIN	0	AC-FT	508		
WTR YR 1976	TOTAL	3633.85	MEAN	9.93	MAX	665	MIN	0	AC-FT	7210		

BRISTOL LAKE BASIN

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10252550 CARUTHERS CREEK NEAR IVANPAH, CA

LOCATION.--Lat 35°14'33", long 115°17'58", in NW¼NW¼NE¼ sec.6, T.13 N., R.16 E., San Bernardino County, on left bank 6.6 mi (10.6 km) south of Ivanpah.

DRAINAGE AREA.--1.13 mi² (2.93 km²).

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,640 ft (1,719 m), from topographic map.

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

AVERAGE DISCHARGE.--13 years, 0.068 ft³/s (0.002 m³/s), 49 acre-ft/yr (60,400 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 518 ft³/s (14.7 m³/s) Aug. 25, 1969, gage height, 4.77 ft (1.454 m), on basis of slope-conveyance measurement of maximum flow; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 10 ft³/s (0.283 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)
Feb. 6	2200	26	0.736	2.57	0.783	Sept. 10	2200	65	1.84	3.10	0.945
Feb. 9	0300	*92	2.61	3.34	1.018	Sept. 23	1400	15	0.425	2.28	0.695
Sept. 6	0330	17	0.481	2.36	0.719						

Minimum daily discharge, no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	.17	0			0		0
2					0	.02	0			0		0
3					0	.03	0			0		0
4					0	.02	0			0		0
5					0	0	0			0		0
6					3.2	0	0			0		.85
7					.78	0	0			0		.01
8					1.9	0	0			0		0
9					9.7	0	0			0		0
10					.34	0	0			0		3.3
11					1.4	0	0			0		1.4
12					1.1	0	0			0		.25
13					.19	0	0			0		.05
14					.12	0	0			0		.03
15					.10	0	.10			0		.02
16					.08	0	.08			0		.01
17					.04	0	.06			0		0
18					.03	0	.06			0		0
19					.02	0	.04			0		0
20					.01	0	.03			0		0
21					0	0	.01			0		0
22					0	0	0			0		0
23					0	0	0			0		2.1
24					0	0	0			0		.71
25					0	0	0			0		.40
26					0	0	0			.18		.32
27					0	0	0			0		.25
28					0	0	0			0		.20
29					0	0	0			0		.10
30					---	0	0			0		.06
31		---			---	0	---			0		---
TOTAL	0	0	0	0	19.01	.24	.38	0	0	.18	0	10.06
MEAN	0	0	0	0	.66	.008	.013	0	0	.006	0	.34
MAX	0	0	0	0	9.7	.17	.10	0	0	.18	0	3.3
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	38	.5	.8	0	0	.4	0	20
CAL YR 1975	TOTAL	2.21	MEAN .0060	MAX .27	MIN 0	AC-FT 4.4						
WTR YR 1976	TOTAL	29.87	MEAN .082	MAX 9.7	MIN 0	AC-FT 59						

SALTON SEA BASIN

10254005 SALTON SEA NEAR WESTMORLAND, CA

LOCATION.--Lat 33°11'37", long 115°49'54", in NE¼SE¼SW¼ sec.21, T.11 S., R.11 E., Imperial County, at outer end of third mooring pier from western shore at Sandy Beach, and 15.5 mi (24.9 km) northwest of Westmorland.

DRAINAGE AREA.--8,360 mi² (21,650 km²), approximately.

PERIOD OF RECORD.--November 1904 to current year. Records prior to 1932 are published in WSP 735.

GAGE.--Water-stage recorder. Datum of gage is 250.00 ft (76.2 m) below mean sea level; gage readings have been converted to elevations below mean sea level. See WSP 1734 for history of changes prior to Mar. 2, 1956.

REMARKS.--Bottom of sea is 277.7 ft (84.64 m) below mean sea level. See WSP 300, 735, and 918 for condensed history of Salton Sea.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 195.9 ft (59.71 m) below mean sea level in February and March 1907; minimum since 1906, 251.6 ft (76.69 m) below mean sea level in November 1924.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 229.5 ft (69.95 m) below mean sea level, Sept. 29-30; minimum, 231.1 ft (70.44 m) below mean sea level, Oct. 31, Nov. 1-2, 27-29.

MEAN DAILY MONTHEND ELEVATIONS, IN FEET, BELOW MEAN SEA LEVEL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Date	Elevation (feet)
Sept. 30.....	230.9	Apr. 30.....	229.6
Oct. 31.....	231.1	May 31.....	229.6
Nov. 30.....	231.1	June 30.....	229.7
Dec. 31.....	230.9	July 31.....	229.9
Jan. 31.....	230.6	Aug. 31.....	230.2
Feb. 29.....	230.1	Sept. 30.....	229.5
Mar. 31.....	229.8		

INFLOW TO SALTON SEA

Salton Sea, located near the northeast corner of Imperial County, is a closed basin consisting of 8,360 mi² (21,650 km²).

The following table shows monthly and annual inflow, in acre-feet, for the water year October 1975 to September 1976 and the calendar year January to December 1975. Inflow from Imperial Valley is the sum of flows in Alamo River (station 10254730), New River (station 10255550), 33 drains and wasteways, and since October 1967 San Felipe Creek (station 10255885). Since October 1967 inflow from Coachella Valley is the sum of flows in Whitewater River (station 10259540), Salt Creek (station 10254050), and 21 drains. Flow in Whitewater River and Salt Creek was measured at gaging stations. Discharge from the drains was furnished by Coachella County Water District (see Salton Sea basin for other flows to the sea). Table also shows amount of flow in Alamo and New Rivers contributed by Mexico as furnished by Imperial Irrigation District. Ungaged drains and natural runoff also contribute inflow to the sea.

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Inflow from												
Imperial Valley	111700	88490	86540	90670	85880	126200	124200	125200	90540	92850	94220	151900
Coachella Valley	15880	14560	13000	14770	17030	17110	16120	17280	13830	14900	15730	23540
Total cal yr 1975		1,404,600 ac-ft										
Total wtr yr 1976		1,462,100 ac-ft										

FLOW FROM MEXICO AT INTERNATIONAL BOUNDARY

Alamo River	108	94	107	106	108	127	118	103	80	60	67	94
New River	6790	6500	7710	9100	10280	9380	10630	10280	6230	6380	6670	9900
Cal yr 1975: Alamo River			1,570 ac-ft		Wtr yr 1976:		1,170 ac-ft					
Cal yr 1975: New River			99,770 ac-ft		Wtr yr 1976:		99,850 ac-ft					

10254050 SALT CREEK NEAR MECCA, CA

LOCATION.--Lat 33°26'49", long 115°50'33", in NE&SE&SW& sec.28, T.8 S., R.11 E., Riverside County, on pier of Southern Pacific Railroad bridge, 0.3 mi (0.5 km) upstream from mouth, and 16 mi (26 km) southeast of Mecca.

DRAINAGE AREA.--269 mi² (697 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 230 ft (70.1 m) below mean sea level (from topographic map).

REMARKS.--Records fair. No regulation or diversion above station. Flow sustained by irrigation seepage.

AVERAGE DISCHARGE.--15 years, 6.49 ft³/s (0.184 m³/s), 4,700 acre-ft/yr (5.80 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,900 ft³/s (280 m³/s) Sept. 24, 1976, gage height, 14.3 ft (4.359 m), from rating curve extended above 20 ft³/s (0.57 m³/s) on basis of contracted-opening measurement at gage height 14.3 ft (4.359 m); minimum daily, 0.40 ft³/s (0.01 m³/s) Aug. 10, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,900 ft³/s (280 m³/s) Sept. 24, gage height, 14.3 ft (4.359 m), from rating curve extended above 20 ft³/s (0.57 m³/s) on basis of contracted-opening measurement of peak flow; minimum daily, 1.3 ft³/s (0.037 m³/s) June 24, 25 and 28.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	7.5	10	9.4	11	11	7.8	5.1	3.7	1.5	3.9	2.8
2	5.6	7.2	10	44	12	11	7.8	4.5	3.7	1.5	3.1	2.8
3	5.6	7.2	10	48	12	10	7.8	4.3	8.1	1.6	9.9	3.0
4	5.4	7.5	10	27	12	10	7.8	4.5	9.4	1.8	12	3.3
5	5.4	7.5	10	30	13	10	7.2	4.7	7.7	1.7	4.5	3.5
6	5.6	16	10	22	16	11	8.4	4.9	4.1	1.7	3.5	50
7	9.0	9.7	10	11	32	11	8.4	5.6	4.4	5.7	3.1	14
8	6.6	10	10	10	29	10	8.4	11	13	11	3.0	12
9	6.4	18	10	10	310	28	7.8	21	4.3	3.1	2.6	7.8
10	6.4	26	10	16	40	44	7.2	2.8	3.7	2.5	2.6	135
11	6.4	40	10	19	19	26	7.2	30	3.3	2.5	2.5	93
12	6.4	13	11	13	17	34	7.2	24	3.3	2.2	2.3	34
13	6.6	8.7	11	12	22	17	7.2	21	3.3	2.1	2.2	15
14	6.9	8.7	10	10	15	19	10	5.9	3.3	1.9	2.1	10
15	6.4	8.7	9.4	10	15	24	12	4.7	3.0	1.8	2.1	7.0
16	6.4	9.0	9.7	10	14	32	12	4.1	2.6	1.8	2.1	5.0
17	6.4	9.0	10	9.7	14	14	9.7	3.9	3.7	1.8	2.2	4.5
18	6.6	9.0	10	10	13	13	8.1	3.9	2.8	1.8	2.3	4.0
19	7.2	8.1	10	18	14	14	7.8	4.3	2.5	2.1	2.3	3.5
20	7.5	7.5	9.7	18	14	15	12	4.1	2.2	6.2	2.5	3.0
21	12	7.8	9.0	9.4	12	9.0	10	4.1	2.1	2.5	2.5	3.0
22	15	7.8	8.7	8.4	12	8.4	8.1	3.9	1.8	2.3	2.5	3.0
23	17	7.8	8.4	8.1	12	8.4	6.9	3.9	1.5	2.5	2.2	800
24	19	7.8	8.7	8.4	13	8.4	6.6	3.9	1.3	2.5	3.0	1000
25	12	9.4	8.1	7.8	12	8.7	6.4	8.8	1.3	2.5	4.1	15
26	10	9.4	10	7.2	12	8.4	6.1	4.7	1.4	3.7	2.8	14
27	18	7.8	12	12	12	7.5	5.4	4.3	1.4	17	2.8	13
28	13	8.1	9.7	26	12	8.4	5.1	3.9	1.3	9.3	2.8	12
29	9.4	10	9.0	17	11	8.1	5.1	3.5	1.4	18	3.0	11
30	8.4	10	9.0	21	---	7.5	5.4	3.7	1.6	16	2.8	10
31	8.1	---	10	13	---	8.1	---	3.7	---	5.6	2.6	---
TOTAL	270.3	324.2	303.4	495.4	752	454.9	236.9	222.7	107.2	138.2	101.9	2294.2
MEAN	8.72	10.8	9.79	16.0	25.9	14.7	7.90	7.18	3.57	4.46	3.29	76.5
MAX	19	40	12	48	310	44	12	30	13	18	12	1000
MIN	5.4	7.2	8.1	7.2	11	7.5	5.1	2.8	1.3	1.5	2.1	2.8
AC-FT	536	643	602	983	1490	902	470	442	213	274	202	4550
CAL YR 1975	TOTAL	3448.5	MEAN	9.45	MAX	78	MIN	1.8	AC-FT	6840		
WTR YR 1976	TOTAL	5701.3	MEAN	15.6	MAX	1000	MIN	1.3	AC-FT	11310		

SALTON SEA BASIN

10254730 ALAMO RIVER NEAR NILAND, CA

LOCATION.--Lat 33°12'03", long 115°36'07", in NE¼SW¼NE¼ sec.22, T.11 S., R.13 E., Imperial County, on left bank 0.6 mi (1.0 km) upstream from mouth, and 5.8 mi (9.3 km) southwest of Niland.

PERIOD OF RECORD.--January 1943 to current year. Monthly discharge only for January 1943 to September 1960, published in WSP 1734.

GAGE.--Water-stage recorder. Altitude of gage is 235 ft (72 m) below mean sea level (from topographic map).

REMARKS.--Records good. Discharge represents seepage and return flow from irrigated areas.

COOPERATION.--Records furnished by Imperial Irrigation District and reviewed by the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,080 ft³/s (58.9 m³/s) Nov. 27, 1967; minimum daily, 288 ft³/s (8.16 m³/s) Jan. 2, 1966.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1060	917	800	752	852	989	1220	1160	932	757	781	880
2	1120	908	786	677	875	994	1280	1190	885	762	790	880
3	1180	936	762	724	894	1030	1290	1180	847	776	809	875
4	1210	965	766	752	880	1060	1280	1310	875	805	776	927
5	1290	885	805	823	941	1090	1260	1470	903	809	766	922
6	1220	871	766	847	1010	1120	1250	1640	899	786	766	941
7	1190	946	771	880	1040	1170	1220	1570	894	743	771	989
8	1170	955	771	908	1010	1120	1210	1600	871	724	786	984
9	1190	899	771	984	1430	1080	1180	1530	833	762	795	941
10	1220	809	733	960	1060	1040	1190	1270	805	747	762	1240
11	1260	814	729	838	729	1010	1240	1170	823	762	752	1540
12	1150	762	766	635	563	1010	1200	1100	833	786	781	1340
13	1090	776	852	530	539	1000	1300	1090	866	800	805	941
14	1120	795	823	516	539	994	1530	1080	866	781	776	800
15	1070	856	757	502	507	1010	1710	1080	842	805	795	747
16	1080	880	762	521	459	1080	1180	1060	814	819	800	663
17	1060	894	776	620	459	1110	975	1060	800	829	823	672
18	1050	842	800	786	445	1210	842	1060	800	819	814	663
19	1030	819	823	852	488	1220	700	1070	838	790	809	653
20	1060	781	856	866	493	1200	752	1100	847	790	795	663
21	965	823	814	861	544	1250	856	1080	847	795	819	724
22	913	833	833	889	611	1300	946	1070	833	800	866	752
23	861	819	871	908	653	1250	1010	1070	829	800	866	917
24	856	776	842	917	733	1240	1070	1040	833	800	875	1230
25	908	805	681	856	762	1280	1080	1010	790	814	871	1150
26	975	719	530	805	829	1260	1130	1010	790	866	908	941
27	975	743	587	786	894	1280	1150	994	776	889	899	866
28	908	752	686	786	955	1250	1180	984	743	889	927	838
29	880	724	696	809	970	1230	1180	960	747	889	927	833
30	927	757	776	861	---	1280	1120	941	757	847	946	829
31	885	---	809	875	---	1240	---	941	---	800	922	---
TOTAL	32873	25061	23800	24326	22164	35397	34531	35890	25018	24841	25578	27341
MEAN	1060	835	768	785	764	1142	1151	1158	834	801	825	911
MAX	1290	965	871	984	1430	1300	1710	1640	932	889	946	1540
MIN	856	719	530	502	445	989	700	941	743	724	752	653
AC-FT	65200	49710	47210	48250	43960	70210	68490	71190	49620	49270	50730	54230
CAL YR 1975 TOTAL	343948		MEAN 942	MAX 1690	MIN 530	AC-FT 682200						
WTR YR 1976 TOTAL	336820		MEAN 920	MAX 1710	MIN 445	AC-FT 668100						

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

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

PERIOD OF RECORD.--Water years 1969 to 1971, 1973 to current year.
CHEMICAL ANALYSES: August 1969 to July 1971, February 1973 to current year.
WATER TEMPERATURES: Water year 1974 to current year.
SEDIMENT RECORDS: Water year 1975 to current year (partial-record station).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1973 to current year.
WATER TEMPERATURES: October 1973 to current year.

INSTRUMENTATION.--Specific-conductance recorder since October 1973. Temperature recorder since October 1973.

REMARKS.--Periods of missing conductivity and temperature data due to equipment malfunction or fouled probe.
Discrepancy between total and dissolved concentrations due to analytical techniques.

COOPERATION.--Discharge records were furnished by Imperial Irrigation District.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 9,830 micromhos Aug. 8, 1976; minimum recorded, 3,400 micromhos June 2, 1975.
WATER TEMPERATURES: Maximum recorded, 36.5°C Sept. 13, 14, 1976; minimum recorded, 11.0°C Feb. 22, 1975.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 9,830 micromhos Aug. 8; minimum recorded, 4,130 micromhos Feb. 18.
WATER TEMPERATURES: Maximum recorded, 36.5°C Sept. 13, 14; minimum recorded, 13.0°C Nov. 29 to Dec. 3.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)
OCT									
06...	1500	120	6600	7.8	28.0	4260	4040	5.79	1380
NOV									
18...	1500	113	6400	7.6	16.5	4730	4710	6.43	1440
DEC									
08...	1500	128	5200	7.8	16.0	4580	4480	6.23	1580
JAN									
27...	1430	148	7400	7.8	16.0	4380	4110	5.96	1750
FEB									
17...	1400	213	6300	7.3	18.0	4400	4180	5.98	2530
MAR									
03...	1100	162	7310	7.9	15.0	4750	4520	6.46	2080
16...	1400	147	9200	8.0	20.0	4420	4800	6.01	1750
APR									
07...	1130	154	8200	7.9	20.5	5500	5060	7.48	2290
13...	1500	195	8200	8.0	18.0	4850	4540	6.60	2550
MAY									
05...	1120	158	7860	7.7	25.0	5330	4810	7.25	2270
11...	1400	249	5998	7.4	27.5	3790	3910	5.15	2550
JUN									
01...	1400	128	6569	7.5	27.5	4900	4800	6.66	1690
02...	1110	130	6950	7.7	25.5	4530	4280	6.16	1590
29...	1400	97	8293	7.6	32.0	5850	5730	7.96	1530
JUL									
07...	1140	91	8850	--	31.0	--	--	--	--
21...	0815	121	8800	7.8	7.8	5650	5340	7.68	1850
27...	0730	122	7955	7.4	29.0	5190	5190	7.06	1710
AUG									
04...	1130	117	8570	7.8	26.5	5470	5210	7.44	1730
31...	0700	110	6800	7.7	29.5	4740	4620	6.45	1410
SEP									
01...	1120	112	7650	7.9	26.5	4990	4670	6.79	1510
21...	1710	123	7400	7.9	29.0	4710	4550	6.41	1560

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CA--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TUR- BID- ITY (JTU)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOC (COL- ONIES PER 100 ML)	HARD- NESS (CA, MG/ L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
OCT												
06...	1500	120	15	6700000	390000	1100	830	230	120	1000	66	13
NOV												
18...	1500	113	16	2300000	300000	1100	850	260	120	1200	68	15
DEC												
08...	1500	128	15	1100000	--	1100	870	250	120	1200	68	16
JAN												
27...	1430	148	15	2500000	3600000	1200	880	250	130	1000	64	13
FEB												
17...	1400	213	15	700000	150000	1200	940	260	130	1000	64	13
MAR												
03...	1100	162	--	813000	100000	1360	1100	296	151	1110	63	13
16...	1400	147	11	537000	134000	1300	1000	280	150	1200	65	14
APR												
07...	1130	154	--	8200000	420000	1420	1150	310	157	1280	65	15
13...	1500	195	27	--	80000	1400	1000	280	160	1100	62	13
MAY												
05...	1120	158	--	2000000	1100000	1380	1110	284	163	1210	65	14
11...	1400	249	20	74000	40000	1000	780	220	110	930	64	13
JUN												
01...	1400	128	3	700000	400000	1300	1000	260	150	1200	66	15
02...	1110	130	--	4200000	2000000	1210	959	254	140	1070	65	13
29...	1400	97	10	--	80000	1400	1100	280	160	1500	69	18
JUL												
21...	0815	121	--	--	--	1260	1060	270	143	1420	69	17
27...	0730	122	30	420000	240000	1200	960	250	130	1400	70	18
AUG												
04...	1130	117	--	5100000	--	1190	975	260	132	1390	69	18
31...	0700	110	3	20000	60000	1200	1000	260	140	1200	67	15
SEP												
01...	1120	112	--	1400000	--	1200	977	254	138	1200	67	15
21...	1710	123	10	248000	220000	1200	960	260	140	1200	67	15

DATE	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)
OCT												
06...	47	286	0	235	7.3	780	1700	.6	18	.02	.02	4.8
NOV												
18...	84	362	0	297	15	820	2000	.7	19	6.0	6.0	4.3
DEC												
08...	77	307	0	252	7.8	730	1900	.6	19	5.5	5.5	4.5
JAN												
27...	33	340	0	279	8.6	800	1700	.6	15	.83	.57	4.0
FEB												
17...	42	300	0	246	24	780	1800	.6	12	.72	1.3	3.5
MAR												
03...	34	316	0	259	6.4	900	1860	1.0	13	--	--	--
16...	67	330	0	271	5.3	890	2000	.6	16	4.3	6.0	2.6
APR												
07...	64	330	0	271	6.6	930	2140	1.0	17	--	--	--
13...	64	381	0	313	6.1	820	1900	.6	17	.00	1.9	4.9
MAY												
05...	37	330	0	271	11	915	2020	.8	17	--	--	--
11...	100	274	0	225	17	790	1600	.7	17	.80	.80	3.2
JUN												
01...	50	296	0	243	15	940	2000	.0	22	5.7	5.6	4.4
02...	42	306	0	251	9.8	840	1760	.8	17	--	--	--
29...	110	275	0	226	11	920	2600	1.0	26	.51	--	--
JUL												
21...	108	248	0	203	6.3	840	2410	1.0	26	--	--	--
27...	110	241	0	198	15	830	2300	.7	28	.71	3.7	.92
AUG												
04...	120	262	0	215	6.6	790	2360	.7	28	--	--	--
31...	71	232	0	190	6.6	790	2000	.7	27	.48	3.1	2.9
SEP												
01...	68	272	0	223	5.5	845	2000	1.0	26	--	--	--
21...	49	322	0	264	6.5	800	1900	.6	20	.08	4.2	4.8

B Results based on non-ideal colony count.

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CA--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOSPHATE (P04) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL PHYTO-PLANKTON (CELLS PER ML)
OCT 06...	.00	4.3	4.3	19	2.2	1.3	4.0	1500	--	90	--	81000
NOV 18...	11	15	21	93	2.1	1.1	3.4	1900	590	50	32	23000
DEC 08...	.20	4.7	10	45	1.7	.90	2.8	1800	--	110	--	12000
JAN 27...	5.7	9.7	11	47	2.1	1.5	4.6	1300	1200	70	35	19000
FEB 17...	5.5	9.0	9.7	43	1.6	1.1	3.4	1200	--	190	--	13000
MAR 03...	--	--	--	--	--	--	--	--	--	--	--	--
16...	6.1	8.7	13	58	1.2	.54	1.7	1200	--	250	--	130000
APR 07...	--	--	--	--	--	--	--	--	--	--	--	--
13...	8.1	13	13	58	2.1	.81	2.5	1600	3700	140	--	16000
MAY 05...	--	--	--	--	--	--	--	--	--	--	--	--
11...	1.9	5.1	5.9	26	1.3	.92	2.8	850	--	190	--	17000
JUN 01...	3.8	8.2	14	62	1.8	1.2	3.7	1200	--	50	--	69000
02...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	6.8	7.3	32	1.1	--	--	--	2400	100	--	110000
JUL 21...	--	--	--	--	--	--	--	--	--	--	--	--
27...	3.9	4.8	5.5	24	.81	.40	1.2	2100	--	60	--	19000
AUG 04...	--	--	--	--	--	--	--	--	--	--	--	--
31...	.80	3.7	4.2	19	.62	.47	1.4	1700	--	90	--	55000
SEP 01...	--	--	--	--	--	--	--	--	--	--	--	--
21...	.00	.32	.40	1.8	1.9	.90	2.8	1500	--	110	--	74000

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY....GENUS.....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
OCT 6	0000	CHLOROPHYTA .CHLOROPHYCEAE ..CHLOROCCOCCALES ...OOCYSTACEAE * ...ANKISTRODESMUS * ...DICTYOSPHAERIUM ...SCENEDESMACEAE....SCENEDESMUS	GREEN ALGAE	1,100	1
		CHRYCOPHYTA .BACILLARIOPHYCEAE ..CENTRALES ...COSCINODISCAEAE * ...CYCLOTELLA ..PENNALES ...ACHNANTHACEAE * ...COCCONEIS ...FRAGILARIACEAE * ...SYNEDRA ...NAVICULACEAE * ...NAVICULA ...NITZSCHIACEAE....NITZSCHIA	DIATOMS CENTRIC PENNATE NAVICULOID	800	1
		CYANOPHYTA .MYXOPHYCEAE ..CHROOCOCCALES ...CHROOCOCCACEAE # ...AGMENELLUM ...OSCILLATORIALES ...OSCILLATORIAEAE # ...OSCILLATORIA	BLUE-GREEN ALGAE COCCOID FILAMENTOUS	34,000 43,000	43 54
		EUGLENOPHYTA .EUGLENOPHYCEAE ..EUGLENALES ...EUGLENACEAE....EUGLENA	EUGLENOIDS	530	1
		TOTAL PHYTOPLANKTON		80,000	

See footnotes at end of table.

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY....GENUS.....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
NOV 18	0000	CHLOROPHYTA .CHLOROPHYCEAE ..VOLVOCALES ...CHLAMYDOMONADACEAE *CHLAMYDOMONAS	GREEN ALGAE		0
		CHRYSOPHYTA .BACILLARIOPHYCEAE ..CENTRALES ...COSCINODISCACEAE....CYCLOTELLA ..PENNALES ...ACHNANTHACEAE * ...COCCONEIS ...CYMBELLACEAE * ...AMPHORA ...CYMBELLA ...GOMPHONEMATACEAE * ...GOMPHONEMA ...NAVICULACEAE ...NAVICULA ...NITZSCHIA * ...NITZSCHIA	DIATOMS CENTRIC PENNATE NAVICULOID	190 190 290	1 1 1 0
		CYANOPHYTA .MYXOPHYCEAE ..CHROOCOCCALES ...CHROOCOCCACEAE * ...AGMENELLUM ...OSCILLATORIALES ...OSCILLATORIA # ...OSCILLATORIA	BLUE-GREEN ALGAE COCCOID FILAMENTOUS	22,000	96
		EUGLENOPHYTA .EUGLENOPHYCEAE ..EUGLENALES ...EUGLENACEAE * ...EUGLENA	EUGLENOIDS		0
		TOTAL PHYTOPLANKTON		23,000	

See footnotes at end of table.

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM ..CLASS ...ORDER ...FAMILY....GENUS.....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
DEC 8	1500	CHLOROPHYTA ..CHLOROPHYCEAE ..CHLOROCOCCALES ...OOCYSTACEAE....ANKISTRODESMUS....DICTYOSPHAERIUM ..VOLVOCALES ...CHLAMYDOMONADACEAE....CHLAMYDOMONAS	GREEN ALGAE	74 1,200 660	1 10 6
		CHRYSOPHYTA ..BACILLARIOPHYCEAE ..CENTRALES ...COSCINODISCACEAE....CYCLOTELLA ..PENNALES ...GOMPHONEMACEAE....GOMPHONEMA ...NAVICULACEAE....AMPHIPRORA....NAVICULA ...NITZSCHIA #NITZSCHIA	DIATOMS CENTRIC PENNATE NAVICULOID	440 74 150 150 2,100	4 1 1 1 18
		CYANOPHYTA ..MYXOPHYCEAE ..CHROCOCCALES ...CHROCOCCACEAE....AGMENELLUM....ANACYSTIS ...OSCILLATORIALES ...OSCILLATORIA #LYNGBYA	BLUE-GREEN ALGAE COCCOID FILAMENTOUS	590 1,500 4,900	5 13 41
		TOTAL PHYTOPLANKTON		12,000	
JAN 27	1430	CHLOROPHYTA ..CHLOROPHYCEAE ..CHLOROCOCCALES ...SCENEDESMACEAE....ACTINASTRUM * ...SCENEDESMUS ..VOLVOCALES ...CHLAMYDOMONADACEAE....CHLAMYDOMONAS	GREEN ALGAE	1,100 270	6 0 1
		CHRYSOPHYTA ..BACILLARIOPHYCEAE ..CENTRALES ...COSCINODISCACEAE....CYCLOTELLA....MELOSIRA ..PENNALES ...NAVICULACEAE....AMPHIPRORA ...NITZSCHIA....NITZSCHIA	DIATOMS CENTRIC PENNATE NAVICULOID	2,200 550 270 270	12 3 1 1
		CYANOPHYTA ..MYXOPHYCEAE ...OSCILLATORIALES ...OSCILLATORIA #PHORMIDIUM	BLUE-GREEN ALGAE FILAMENTOUS	14,000	75
		TOTAL PHYTOPLANKTON		19,000	

See footnotes at end of table.

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY....GENUS.....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
FEB 17	1400	CHLOROPHYTA ..CHLOROPHYCEAE ..CHLOROCOCCALES ..COELASTRACEAE ...COELASTRUM ...MICRACTINIACEAE ...MICRACTINIUM ...OOCYSTACEAE ...ANKISTRODESMUS ...WESTELLA ...SCENEDESMACEAE * ...ACTINASTRUM * ...SCENEDESMUS ..VOLVOCALES ..CHLAMYDOMONADACEAE # ...CHLAMYDOMONAS	GREEN ALGAE	660 660 250 580 2,200	5 5 2 4 17
		CHRYCOPHYTA ..BACILLARIOPHYCEAE ..CENTRALES ..COSCINODISCAEAE # ...CYCLOTTELLA ...MELOSIRA ..PENNALES * ...ACHNANTHACEAE * ...RHOICOSPHEINIA ...CYMBELLACEAE ...AMPHORA ...CYMBELLA ...DIATOMACEAE * ...DIATOMA ...NAVICULACEAE ...AMPHIPRORA ...NAVICULA ...NITZSCHIAEAE ...NITZSCHIA	DIATOMS CENTRIC PENNATE NAVICULOID	3,700 82 82 82 160 490	28 1 1 1 1 4
		CYANOPHYTA ..MYXOPHYCEAE ..CHROOCOCCALES ..CHROOCOCCACEAE * ...ANACYSTIS ..OSCILLATORIALES ..OSCILLATORIAEAE ...LYNGBYA # ...OSCILLATORIA	BLUE-GREEN ALGAE COCCOID FILAMENTOUS	 410 3,700	0 3 28
		EUGLENOPHYTA ..EUGLENOPHYCEAE ..EUGLENALES ..EUGLENACEAE ...EUGLENA	EUGLENOIDS	82	1
		TOTAL PHYTOPLANKTON		13,000	

See footnotes at end of table.

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY....GENUS.....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
MAR 16	1400	CHLOROPHYTA •CHLOROPHYCEAE ..CHLOROCCOCCALES ...COELASTRACEAE *...COELASTRUM ...OOCYSTACEAE *...ANKISTRODESMUS *...OOCYSTIS ...SCENEDESMACEAE ...SCENEDESMUS ...VOLVOCALES ...CHLAMYDOMONADACEAE *...CHLAMYDOMONAS	GREEN ALGAE	730	1
		CHRYSTOPHYTA •BACILLARIOPHYCEAE ..CENTRALES ...COSCINODISCACEAE ...CYCLOTELLA ..PENNALES ...ACHNANTHACEAE *...COCCONEIS *...RHOICOSPHENIA ...GOMPHONEMACEAE *...GOMPHONEMA ...NAVICULACEAE *...AMPHIPRORA *...NAVICULA ...NITZSCHIACEAE *...NITZSCHIA ...SURIRELLACEAE *...SURIRELLA	DIATOMS CENTRIC PENNATE NAVICULOID	3,300	2
		CYANOPHYTA •MYXOPHYCEAE ..CHROOCOCCALES ...CHROOCOCCACEAE ...ANACYSTIS ...OSCILLATORIALES ...OSCILLATORIA #...OSCILLATORIA	BLUE-GREEN ALGAE COCCOID FILAMENTOUS	1,800 120,000	1 94
		EUGLENOPHYTA •EUGLENOPHYCEAE ...EUGLENALES ...EUGLENACEAE *...PHACUS	EUGLENOIDS		0
		TOTAL PHYTOPLANKTON		130,000	

See footnotes at end of table.

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY....GENUS.....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
APR 13	1500	CHLOROPHYTA .CHLOROPHYCEAE ..CHLOROCOCCALES ...OOCYSTACEAE....ANKISTRODESMUS....KIRCHNERIELLA....OOCYSTIS	GREEN ALGAE	580 150 580	4 1 4
		CHRYSTOPHYTA .BACILLARIOPHYCEAE ..CENTRALES ...COSCIDINODISCACEAE....CYCLOTELLA ..PENNALES ...CYMBELLACEAE....AMPHORA ...NAVICULACEAE....AMPHIPRORA....CALONEIS....DIPLONEIS....NAVICULA ...NITZSCHIACEAE....NITZSCHIA	DIATOMS CENTRIC PENNATE NAVICULOID	730 290 150 150 150 870 1,700	5 2 1 1 6 11
		CYANOPHYTA .MYXOPHYCEAE ..OSCILLATORIALES ...OSCILLATORIA # ...OSCILLATORIA	BLUE-GREEN ALGAE FILAMENTOUS	10,000	65
		TOTAL PHYTOPLANKTON		16,000	

See footnotes at end of table.

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY....GENUS.....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
MAY 11	1400	CHLOROPHYTA .CHLOROPHYCEAE ..CHLOROCCOCCALES ...OOCYSTACEAE # ...ANKISTRODESMUS ...KIRCHNERIELLA ...OOCYSTIS ...SCENEDESMACEAE ...ACTINASTRUM ...SCENEDESMUS ...VOLVOCALES ...CHLAMYDOMONADACEAE ...CHLAMYDOMONAS	GREEN ALGAE		
				4,300	25
				710	4
				610	4
				300	2
				1,300	8
				1,600	10
		CHRYSTOPHYTA .BACILLARIOPHYCEAE ..CENTRALES ...COSCINODISCAEAE ...CYCLOTELLA ...MELOSIRA ..PENNALES ...CYMBELLACEAE ...AMPHORA ...NAVICULACEAE ...NAVICULA ...NITZSCHIACEAE ...NITZSCHIA	DIATOMS CENTRIC PENNATE NAVICULOID		
				300	2
				200	1
				100	1
				100	1
				710	4
		CYANOPHYTA .MYXOPHYCEAE ..CHROOCOCCALES ...CHROOCCACEAE ...AGMENELLUM ...ANACYSTIS ...OSCILLATORIALES ...OSCILLATORIAEAE # ...OSCILLATORIA	BLUE-GREEN ALGAE COCCOID FILAMENTOUS		
				1,600	10
				410	2
				4,100	24
		EUGLENOPHYTA .EUGLENOPHYCEAE ..EUGLENALES ...EUGLENACEAE ...TRACHELOMONAS	EUGLENOIDS		
				410	2
		TOTAL PHYTOPLANKTON		17,000	

See footnotes at end of table.

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
		.CLASS ..ORDER ...FAMILY....GENUS.....SPECIES			
JUNE 1	1400	CHLOROPHYTA	GREEN ALGAE		
		.CHLOROPHYCEAE			
		..CHLOROCCOCALES			
		...COELASTRACEAE			
		# ...COELASTRUM		12,000	18
		...OOCYSTACEAE			
		...ANKISTRODESMUS		660	1
		...KIRCHNERIELLA		1,500	2
		...SCENEDESMACEAE			
		...SCENEDESMUS		3,700	5
		CHRYSTOPHYTA			
		.BACILLARIOPHYCEAE	DIATOMS		
		..CENTRALES	CENTRIC		
		...COSINODISCAEAE			
		...CYCLOTELLA		550	1
		...MELOSIRA		440	1
		..PENNALES	PENNATE		
		...CYMBELLACEAE			
		* ...CYMBELLA			0
		...NAVICULACEAE	NAVICULOID		
		* ...NAVICULA			0
		...NITZSCHIAEAE			
		...NITZSCHIA		770	1
		CYANOPHYTA	BLUE-GREEN ALGAE		
		.MYXOPHYCEAE			
		..CHROOCOCCALES	COCCOID		
		...CHROOCOCCACEAE			
		...ANACYSTIS		4,400	6
		...OSCILLATORIALES	FILAMENTOUS		
		...OSCILLATORIAEAE			
# ...OSCILLATORIA		44,000	64		
TOTAL PHYTOPLANKTON		69,000			

See footnotes at end of table.

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY....GENUS.....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
JUNE 29	1400	CHLOROPHYTA	GREEN ALGAE		
		.CHLOROPHYCEAE			
		..CHLOROCCOCALES			
		...CHARACIACEAE			
		....CHARACIUM		1,100	1
		....COELASTRACEAE			
		#COELASTRUM		23,000	22
		...OOCYSTACEAE			
		....ANKISTRODESMUS		1,100	1
		...SCENEDESMACEAE			
		....ACTINASTRUM		2,200	2
		....SCENEDESMUS		3,300	3
		CHRYSOPHYTA			
		.BACILLARIOPHYCEAE	DIATOMS CENTRIC		
		..CENTRALES			
		...COSCINODISCACEAE		550	1
		....CYCLOTELLA			
		..PENNALES	PENNATE		
		...CYMBELLACEAE			
		*AMPHORA			0
		*CYMBELLA			0
		...NITZSCHIACEAE			
		....NITZSCHIA		2,700	3
		...SURIRELLACEAE			
		*SURIRELLA			0
		CYANOPHYTA	BLUE-GREEN ALGAE		
		.MYXOPHYCEAE			
		..CHROOCOCCALES	COCCOID		
		...CHROOCOCCACEAE			
		#AGMENELLUM		35,000	33
		...OSCILLATORIALES	FILAMENTOUS		
		....OSCILLATORIA		37,000	35
		#OSCILLATORIA			
		TOTAL PHYTOPLANKTON		110,000	

See footnotes at end of table.

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY....GENUS.....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
JULY 27	0730	CHLOROPHYTA	GREEN ALGAE		
		.CHLOROPHYCEAE			
		..CHLOROCOCCALES			
		...CHARACIACEAE			
		....CHARACIUM		170	1
		...COELASTRACEAE			
		#COELASTRUM		5,400	28
		...OOCYSTACEAE			
		*ANKISTRODESMUS			0
		...SCENEDESMACEAE			
		#ACTINASTRUM		5,500	29
		...SCENEDESMUS		120	1
		..VOLVOCALES			
		...CHLAMYDOMONADACEAE			
		....CHLAMYDOMONAS		690	4
		CHRYSTOPHYTA			
		.BACILLARIOPHYCEAE	DIATOMS		
		..CENTRALES	CENTRIC		
		...COSCINODISCACEAE			
		*CYCLOTELLA			0
		..PENNALES	PENNATE		
		...CYMBELLACEAE			
		*CYMBELLA			0
		...NITZSCHIACEAE			
		....NITZSCHIA		120	1
		CYANOPHYTA	BLUE-GREEN ALGAE		
		.MYXOPHYCEAE			
		..CHROOCOCCALES	COCCOID		
		...CHROOCOCCACEAE			
		....AGMENELLUM		1,200	6
		..OSCILLATORIALES	FILAMENTOUS		
		...OSCILLATORIAEAE			
		#LYNGBYA		3,500	18
		...OSCILLATORIA		2,500	13
		TOTAL PHYTOPLANKTON		19,000	

See footnotes at end of table.

SALTON SEA BASIN

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY....GENUS.....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
AUG 31	0700	CHLOROPHYTA .CHLOROPHYCEAE ..CHLOROCOCCALES ...OOCYSTACEAE #ANKISTRODESMUS ...SCENEDESMACEAE....ACTINASTRUM	GREEN ALGAE	11,000 1,000	20 2
		CHRYSOPHYTA .BACILLARIOPHYCEAE ..CENTRALES ...COSCIDINODISCACEAE....CYCLOTELLA ..PENNALES ...NAVICULACEAE....NAVICULA ...NITZSCHIACEAE....NITZSCHIA	DIATOMS CENTRIC PENNATE NAVICULOID	2,500 130 130	5 0 0
		CYANOPHYTA .MYXOPHYCEAE ..CHROOCOCCALES ...CHROOCOCCACEAE....AGMENELLUM....ANACYSTIS ...OSCILLATORIALES ...OSCILLATORIA....LYNGBYA #OSCILLATORIA TOTAL PHYTOPLANKTON	BLUE-GREEN ALGAE COCCOID FILAMENTOUS	3,000 510 1,000 36,000 55,000	5 1 2 65
SEP 21	1330	CHLOROPHYTA .CHLOROPHYCEAE ..CHLOROCOCCALES ...COELASTRACEAE....COELASTRUM ...OOCYSTACEAE #ANKISTRODESMUS ...SCENEDESMACEAE....SCENEDESMUS	GREEN ALGAE	1,400 17,000 340	2 23 0
		CHRYSOPHYTA .BACILLARIOPHYCEAE ..CENTRALES ...COSCIDINODISCACEAE....CYCLOTELLA ..PENNALES ...NAVICULACEAE....NAVICULA ...NITZSCHIACEAE....NITZSCHIA	DIATOMS CENTRIC PENNATE NAVICULOID	170 170 9,500	0 0 13
		CYANOPHYTA .MYXOPHYCEAE ..CHROOCOCCALES ...CHROOCOCCACEAE #AGMENELLUM....ANACYSTIS ...OSCILLATORIALES ...OSCILLATORIA TOTAL PHYTOPLANKTON	BLUE-GREEN ALGAE COCCOID FILAMENTOUS	33,000 2,400 11,000 74,000	44 3 14

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

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CA--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDEDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDEDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDEDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)
NOV 18...	1500	9	2	7	<10	<10	0	20	10	10	330
JAN 27...	1430	14	3	11	30	0	95	60	60	0	80
APR 13...	1500	22	5	17	10	2	8	10	0	20	<50
JUN 29...	1400	--	--	23	2	0	2	30	30	0	0

DATE	SUS-PENDEDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDEDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDEDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDEDED MAN-GANESE (MN) (UG/L)
NOV 18...	330	0	40	37	3	<100	<97	3	170	10
JAN 27...	79	1	20	11	9	140	140	3	200	40
APR 13...	<48	2	60	44	16	200	140	58	280	130
JUN 29...	0	0	78	72	6	51	49	2	300	110

DATE	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDEDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDEDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDEDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV 18...	160	.1	.1	.0	0	0	1	100	70	30
JAN 27...	160	.0	.0	.0	3	1	2	250	60	190
APR 13...	150	.0	.0	.1	0	0	3	250	0	340
JUN 29...	190	.4	.0	.4	1	1	0	200	50	150

SALTON SEA BASIN

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CA--Continued

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6820	6220	6500	7550	6740	7090	7790	7660	7730	6300	6180	6240
2	7050	6160	6530	7390	6840	638	7730	7540	7640	---	---	---
3	7450	6780	7110	7520	6850	7210	7670	7080	7410	---	---	---
4	7570	6640	7080	7270	6710	6940	7500	6800	7170	6210	5720	5960
5	7480	6870	7130	7540	6620	7010	7460	6840	7210	6290	6140	6220
6	7570	6650	7040	7300	6670	6960	7530	7320	7430	6280	6080	6200
7	7080	6340	6760	7610	6950	7250	---	---	---	6330	6020	6170
8	6900	5650	6400	7540	6700	7130	---	---	---	6600	5900	6250
9	7050	6110	6570	7270	4960	6230	---	---	---	6050	4960	5900
10	7090	6430	6740	6580	5140	6120	---	---	---	6030	5870	5930
11	6780	6160	6490	6850	6620	6730	---	---	---	6130	5880	6000
12	6760	6420	6610	7110	6780	6900	---	---	---	6200	6030	6110
13	7440	5960	6690	7140	6870	6990	---	---	---	6180	6020	6100
14	7560	6610	7000	7330	6670	6940	---	---	---	6220	6030	6120
15	7210	6110	6620	7130	6320	6650	---	---	---	6180	6010	6090
16	6410	5860	6180	7010	6550	6760	6650	6450	6530	6220	5770	5960
17	6430	5810	6120	7450	6790	7060	6480	6220	6340	---	---	---
18	6250	5870	6050	7390	6980	7220	7060	6020	6550	---	---	---
19	6280	5960	6100	8070	7330	7650	7130	6980	7060	---	---	---
20	6240	5990	6140	8090	6970	7780	7080	6900	6990	---	---	---
21	6100	5940	6030	7610	7490	7550	6910	6210	6390	7740	6350	7450
22	6580	5750	6110	7690	6570	7330	6470	6330	6390	7640	6810	7330
23	6720	6610	6660	7740	7340	7560	6580	5900	6420	7220	6840	7040
24	6740	6380	6550	7990	7260	7540	6490	5800	6180	7060	6290	6690
25	6590	6270	6440	7760	7620	7680	6010	5640	5820	6820	6220	6560
26	6560	6000	6300	7840	7750	7800	---	---	---	7060	5880	6330
27	6840	6170	6590	7860	7760	7810	---	---	---	5930	5820	5880
28	7210	6670	6900	7850	7790	7820	---	---	---	6090	5940	6000
29	7240	6640	6950	7740	7600	7660	---	---	---	---	---	---
30	7270	6600	6980	7770	6760	7590	---	---	---	---	---	---
31	7680	6890	7260	---	---	---	6280	6220	6240	---	---	---
MONTH	7680	5650	6600	8090	4960	6990	7790	5640	6790	7740	4960	6300
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	8590	7330	8020	---	---	---	8460	7480	7920
2	---	---	---	7900	6970	7440	---	---	---	8450	7460	8040
3	---	---	---	8150	7150	7700	---	---	---	8300	6290	7650
4	---	---	---	8190	6550	7510	---	---	---	8030	7250	7690
5	---	---	---	6690	6510	6620	---	---	---	8360	7130	7710
6	---	---	---	6730	6280	6550	---	---	---	---	---	---
7	---	---	---	6730	5990	6350	---	---	---	---	---	---
8	---	---	---	6460	6280	6390	---	---	---	---	---	---
9	---	---	---	6570	6400	6470	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	7500	6060	6630
11	---	---	---	---	---	---	---	---	---	7040	6090	6480
12	---	---	---	8010	7790	7890	---	---	---	7440	6780	7060
13	---	---	---	8590	7630	8070	---	---	---	7180	6630	6970
14	---	---	---	8560	7610	8120	---	---	---	7420	6600	6810
15	---	---	---	7780	6120	7530	---	---	---	8210	7500	7880
16	---	---	---	---	---	---	---	---	---	8250	7040	7690
17	---	---	---	---	---	---	---	---	---	6820	6070	6440
18	4550	4130	4310	---	---	---	---	---	---	6540	5740	6250
19	7460	4180	6410	---	---	---	---	---	---	6630	6010	6210
20	7500	6480	7020	---	---	---	---	---	---	7280	6030	6810
21	7120	4520	5930	---	---	---	8010	7530	7780	6070	5670	5850
22	7940	6820	7420	---	---	---	7920	7330	7660	5990	5650	5870
23	8420	7350	7970	---	---	---	7990	7650	7760	6070	5080	5590
24	8460	6810	7410	---	---	---	8030	7640	7800	---	---	---
25	8430	7500	7900	---	---	---	8250	7780	8020	---	---	---
26	8360	7890	8080	---	---	---	8410	7680	8110	---	---	---
27	8500	7920	8230	---	---	---	8380	8120	8260	---	---	---
28	8520	7990	8270	---	---	---	8630	7800	8240	---	---	---
29	8410	7940	8190	---	---	---	8620	7740	8170	---	---	---
30	---	---	---	---	---	---	8270	7320	7920	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	8520	4130	7260	8590	5990	7280	8630	7320	7970	8460	5080	6920

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CA--Continued

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

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7410	5130	6220	---	9230	---	9290	6240	7770	---	---	---
2	7120	6560	6800	---	9350	---	8400	6460	7600	---	---	---
3	7960	6530	7220	9800	8260	9350	7780	7110	7410	---	---	---
4	8010	7260	7660	9650	8350	8810	7470	7070	7210	---	---	---
5	8450	7610	7930	8690	8320	8510	9580	6770	7570	---	---	---
6	8580	7790	8230	8690	8150	8370	9110	7360	8290	---	---	---
7	8950	8400	8690	9600	7800	8170	9190	7400	8260	---	---	---
8	8660	7350	8410	8620	7940	8380	9830	6730	8350	---	---	---
9	8450	7780	8160	8420	7890	8200	8890	7370	8380	---	---	---
10	9230	8220	8600	8560	7780	8160	7570	6360	7000	---	---	---
11	9150	8390	8730	8610	7840	8100	9250	6770	8210	---	---	---
12	9070	8150	8580	8170	7680	7880	8540	6040	7820	---	---	---
13	9290	8090	8700	7770	7080	7400	8650	6020	6940	---	---	---
14	9430	8140	8890	6960	5850	6350	6640	5340	5850	---	---	---
15	8600	7650	8170	---	---	---	5490	5170	5320	---	---	---
16	8800	8410	8590	---	---	---	9280	5280	7540	---	---	---
17	9540	8300	8680	---	---	---	8580	7880	8220	---	---	---
18	9700	8740	9350	---	---	---	8750	7310	7830	---	---	---
19	---	8910	---	---	---	---	9090	7540	8350	---	---	---
20	---	8820	---	---	---	---	9030	7630	8290	---	---	---
21	---	9320	---	---	---	---	8250	7390	7900	---	---	---
22	---	9990	---	---	---	---	8160	7030	7450	8260	7130	7710
23	---	9990	---	---	---	---	7370	7110	7260	7530	7060	7290
24	---	9990	---	---	---	---	7500	6980	7190	7130	6670	6890
25	---	9680	---	---	---	---	7590	7310	7440	6860	6410	6600
26	---	9840	---	8620	5620	7590	7340	6890	7110	7090	6740	6920
27	---	8860	---	7590	6240	6810	7300	6140	6700	7050	6080	6610
28	---	8780	---	8740	6470	7760	7880	6770	7270	6160	5810	6020
29	---	9510	---	9060	7090	8510	---	---	---	5790	5400	5550
30	---	9100	---	8690	7700	8120	---	---	---	6030	5430	5680
31	---	---	---	9020	5940	7900	---	---	---	---	---	---
MONTH	9700	5130	8200	9800	5620	8020	9830	5170	7520	8260	5400	6590
YEAR	9830	4130	7150									

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	29.5	26.0	27.5	22.0	18.0	20.0	16.0	13.0	14.5			
2	29.5	26.5	28.0	22.0	18.0	20.0	16.5	13.0	14.5			
3	30.0	26.5	28.0	23.0	18.5	20.5	16.5	13.0	15.0			
4	30.0	26.5	28.0	23.0	19.0	20.5	16.5	13.5	15.0			
5	29.5	25.5	27.5	22.5	19.0	20.5	17.5	14.5	16.0			
6	28.5	25.5	26.5	24.0	19.5	22.0	17.5	14.0	16.0			
7	26.0	23.5	25.0	23.5	19.5	22.0	17.5	14.5	16.0			
8	27.5	22.5	24.5	23.5	19.0	21.5	17.5	14.0	16.0			
9	27.5	24.0	25.5	23.0	19.5	21.5	18.0	14.5	16.0			
10	28.5	24.5	26.5	21.5	18.5	20.0	18.0	14.5	16.0			
11	28.0	23.5	26.0	21.5	19.0	20.0	18.0	15.0	16.5			
12	25.0	21.5	23.0	21.0	17.5	19.0	---	---	---			
13	25.5	21.5	23.0	20.0	17.0	18.5	---	---	---			
14	25.0	21.5	23.0	19.5	16.5	18.0	---	---	---			
15	25.5	21.0	23.0	19.5	16.5	18.0	---	---	---			
16	25.5	20.5	23.0	19.5	16.5	18.0	---	---	---			
17	25.5	20.5	23.5	20.5	17.0	18.0	---	---	---			
18	25.5	21.5	23.5	18.0	16.0	17.0	---	---	---			
19	26.5	22.0	23.5	17.5	14.5	16.0	---	---	---			
20	24.5	21.5	23.0	18.0	14.0	16.0	---	---	---			
21	24.5	20.5	23.0	18.0	14.5	16.5	---	---	---			
22	25.0	22.0	23.5	18.0	14.0	16.0	---	---	---			
23	23.0	20.5	21.5	17.5	14.0	16.0	---	---	---			
24	21.5	18.5	20.5	18.0	14.0	16.0	---	---	---			
25	21.5	18.0	20.0	18.0	14.5	16.5	---	---	---			
26	21.5	18.0	19.5	17.5	14.5	16.5	---	---	---			
27	22.5	18.5	20.5	17.5	14.5	16.0	---	---	---			
28	22.5	19.0	21.0	16.5	14.5	15.5	---	---	---			
29	22.5	19.0	21.0	16.0	13.0	14.5	---	---	---			
30	22.5	19.0	21.0	16.5	13.0	15.0	---	---	---			
31	21.5	18.5	20.0	---	---	---	---	---	---			
MONTH	30.0	18.0	23.5	24.0	13.0	18.0	18.0	13.0	15.5			

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CA--Continued

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

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT						
06...	1500	120	28.0	74	24	--
NOV						
18...	1500	113	16.5	45	14	--
DEC						
08...	1500	128	16.0	78	27	--
JAN						
27...	1430	148	16.0	71	28	--
FEB						
17...	1400	213	18.0	121	70	54
MAR						
16...	1400	147	20.0	114	45	--
APR						
13...	1500	195	18.0	183	96	75
MAY						
11...	1400	249	27.5	429	288	--
JUN						
01...	1400	128	27.5	170	59	--
29...	1400	97	32.0	207	54	--
JUL						
27...	0730	122	29.0	259	85	--
AUG						
31...	0700	110	29.5	52	15	37
SEP						
21...	1710	123	29.0	144	48	21

SALTON SEA BASIN

10255550 NEW RIVER NEAR WESTMORLAND, CA

LOCATION.--Lat 33°06'17", long 115°39'49", in SW¼SW¼SW¼ sec.19, T.12 S., R.13 E., Imperial County, on right bank 3.5 mi (5.6 km) upstream from mouth, and 5.2 mi (8.4 km) northwest of Westmorland.

PERIOD OF RECORD.--January 1943 to current year. Monthly discharge only for January 1943 to September 1960, published in WSP 1734.

GAGE.--Water-stage recorder. Altitude of gage is 220 ft (67 m) below mean sea level (from topographic map).

REMARKS.--Records good below 1500 ft³/s (42.5 m³/s), fair above. Discharge represents seepage and return flow from irrigated areas.

COOPERATION.--Records furnished by Imperial Irrigation District and reviewed by the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, (estimated) 2,500 ft³/s (70.8 m³/s) Sept. 13, 1976 (from Tropical Storm Kathleen); minimum daily, 293 ft³/s (8.30 m³/s) Jan. 6, 1967.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	636	538	528	534	592	666	730	740	578	521	530	536
2	613	549	521	513	584	681	730	772	601	534	507	568
3	603	613	492	553	564	676	750	724	611	532	517	574
4	603	596	534	659	543	730	776	716	598	542	519	590
5	584	584	532	559	609	695	758	736	574	511	530	576
6	636	568	519	504	626	704	738	785	598	513	521	574
7	641	584	555	449	664	685	726	826	561	534	487	685
8	645	574	521	388	580	651	732	800	555	494	494	787
9	666	578	481	442	797	659	750	754	540	502	547	641
10	697	547	479	507	785	634	746	738	532	523	543	1500
11	677	511	498	545	613	601	772	718	545	542	523	1800
12	645	505	542	592	574	624	750	732	586	555	557	2200
13	636	494	526	640	525	638	766	732	600	540	563	2500
14	621	485	509	615	483	687	859	679	582	545	566	1880
15	563	464	509	643	481	643	914	674	559	521	540	691
16	607	477	526	611	534	640	720	702	500	534	590	557
17	613	528	525	570	515	677	615	687	490	517	570	505
18	643	532	519	596	504	698	647	666	475	502	519	496
19	662	528	517	549	488	664	668	681	500	498	528	483
20	607	551	515	536	446	672	681	683	534	540	532	494
21	600	526	559	549	459	728	611	681	530	517	543	481
22	603	507	555	551	504	744	553	676	519	557	568	466
23	617	515	566	561	530	728	592	649	536	570	566	473
24	617	523	598	568	564	728	647	683	509	536	543	561
25	607	540	528	580	572	740	704	693	483	559	534	772
26	596	509	463	532	582	760	722	677	515	574	532	578
27	538	542	509	545	613	766	698	645	528	594	545	534
28	563	515	525	504	643	768	706	636	507	607	557	511
29	540	485	504	534	649	772	714	626	505	603	564	534
30	566	487	538	561	---	772	716	611	507	580	561	530
31	576	---	545	580	---	742	---	596	---	586	557	---
TOTAL	19021	15955	16238	17070	16623	21573	21491	21718	16258	16783	16753	24077
MEAN	614	532	524	551	573	696	716	701	542	541	540	803
MAX	697	613	598	659	797	772	914	826	611	607	590	2500
MIN	538	464	463	388	446	601	553	596	475	494	487	466
AC-FT	37730	31650	32210	33860	32970	42790	42630	43080	32250	33290	33230	47760
CAL YR 1975	TOTAL	219061	MEAN 600	MAX 998	MIN 463	AC-FT 434500						
WTR YR 1976	TOTAL	223560	MEAN 611	MAX 2500	MIN 388	AC-FT 443400						

SALTON SEA BASIN

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10255700 SAN FELIPE CREEK NEAR JULIAN, CA

LOCATION.--Lat 33°07'07", long 116°26'04", San Diego County, in Anza-Borrego Desert State Park, on left bank under bridge on State Highway 78 in Sentenac Canyon, 1.0 mi (1.6 km) upstream from Grapevine Canyon, and 10 mi (16 km) northeast of Julian.

DRAINAGE AREA.--89.2 mi² (231.0 km²).

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

GAGE.--Water-stage recorder and concrete low-water control. Datum of gage is 1,872.69 ft (570.796 m) above mean sea level.

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

AVERAGE DISCHARGE.--18 years, 0.23 ft³/s (0.007 m³/s), 167 acre-ft/yr (205,900 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,050 ft³/s (29.7 m³/s) Aug. 22, 1967, gage height, 4.08 ft (1.244 m), from rating curve extended above 12 ft³/s (0.34 m³/s) on basis of slope-area measurement at gage height 3.50 ft (1.067 m); no flow for many days in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 50 ft³/s (1.42 m³/s) and maximum, 143 ft³/s (4.05 m³/s) Sept. 10, gage height, 2.61 ft (0.796 m); no flow many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	.30	.21	.30	.30	.26				0
2			0	.18	.21	.51	.28	.18				0
3			0	.18	.22	.80	.27	.10				0
4			0	.18	.24	.56	.30	.12				0
5			0	.18	.40	.42	.30	.16				0
6			0	.18	1.2	.39	.34	.17				0
7			0	.18	1.8	.38	.30	.29				0
8			.04	.18	1.0	.35	.34	.27				0
9			.11	.19	3.9	.34	.34	.19				0
10			.14	.20	.61	.34	.30	.15				17
11			.15	.19	.41	.34	.30	.12				.50
12			.17	.21	.35	.33	.34	.09				0
13			.18	.21	.32	.31	.34	.08				0
14			.18	.21	.30	.34	.38	.05				0
15			.18	.21	.30	.31	.42	.03				0
16			.17	.21	.27	.31	.56	.02				0
17			.18	.22	.24	.34	.38	.01				0
18			.18	.24	.27	.32	.34	.01				0
19			.18	.24	.27	.30	.34	.01				0
20			.18	.23	.24	.30	.34	0				0
21			.19	.21	.24	.31	.30	0				0
22			.21	.21	.24	.34	.30	0				0
23			.21	.22	.27	.34	.27	0				0
24			.18	.21	.30	.34	.27	0				0
25			.18	.21	.34	.34	.29	0				0
26			.18	.20	.34	.34	.31	0				0
27			.18	.21	.34	.38	.35	0				0
28			.18	.21	.30	.34	.38	0				0
29			.18	.21	.30	.34	.35	0				0
30			.20	.21	---	.34	.32	0				0
31		---	.34	.21	---	.34	---	0	---			---
TOTAL	0	0	4.27	6.43	15.43	11.34	9.95	2.31	0	0	0	17.50
MEAN	0	0	.14	.21	.53	.37	.33	.075	0	0	0	.58
MAX	0	0	.34	.30	3.9	.80	.56	.29	0	0	0	17
MIN	0	0	0	.18	.21	.30	.27	0	0	0	0	0
AC-FT	0	0	8.5	13	31	22	20	4.6	0	0	0	35
CAL YR 1975	TOTAL	44.10	MEAN	.12	MAX	.95	MIN	0	AC-FT	87		
WTR YR 1976	TOTAL	67.23	MEAN	.18	MAX	17	MIN	0	AC-FT	133		

SALTON SEA BASIN

10255800 COYOTE CREEK NEAR BORREGO SPRINGS, CA

LOCATION.--Lat 33°22'06", long 116°25'14", in NE¼NE¼NE¼ sec.26, T.9 S., R.5 E., San Diego County, on left bank 0.5 mi (0.8 km) downstream from Box Canyon, 1.8 mi (2.9 km) northwest of Rancho De Anza, and 8.2 mi (13.2 km) northwest of Borrego Springs.

DRAINAGE AREA.--144 mi² (373 km²).

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for October and November 1950, published in WSP 1734.

REVISED RECORDS.--WDR CA-72-1: 1969, 1971.

GAGE.--Water-stage recorder. Altitude of gage is 1,250 ft (381 m), from topographic map. Prior to Mar. 24, 1967, at site 0.6 mi (1.0 km) upstream at different datum.

REMARKS.--Records poor. No regulation above station. Diversion about 0.5 mi (0.8 km) upstream for irrigation below station since January 1973.

AVERAGE DISCHARGE.--26 years, 1.82 ft³/s (0.052 m³/s), 1,320 acre-ft/yr (1.63 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,800 ft³/s (108 m³/s) July 28, 1951, gage height, 14.14 ft (4.310 m), from floodmarks, site and datum then in use, on basis of slope-area measurement of maximum flow; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,300 ft³/s (65.1 m³/s) Sept. 10 (time unknown), gage height, 14.5 ft (4.42 m), no other peak above base of 50 ft³/s (1.42 m³/s), from rating curve extended above 2.0 ft³/s (0.06 m³/s) on basis of slope-area measurement at gage height 13.85 ft (4.221 m); minimum daily, 0.05 ft³/s (0.001 m³/s) for many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.05	.05	.60	.50	.50	.60	.50	.10	.05	.70	.50
2	.05	.05	.05	.55	.50	.75	.70	.50	.10	.05	.70	.50
3	.05	.05	.05	.50	.50	1.3	.70	.50	.10	.05	.70	.50
4	.05	.05	.05	.50	.50	1.0	.70	.50	.10	.05	.70	.50
5	.05	.05	.05	.50	1.0	.75	.70	.50	.10	.05	.70	.50
6	.05	.05	.05	.50	1.5	.75	.70	.50	.10	.05	.70	.50
7	.05	.05	.05	.50	2.5	.65	.70	.50	.10	.05	.70	.50
8	.05	.05	.05	.50	1.5	.60	.70	.45	.10	.05	.70	.50
9	.05	.05	.05	.50	6.0	.60	.70	.40	.10	.05	.70	.50
10	.05	.05	.05	.50	1.5	.60	.70	.40	.10	.15	.70	25
11	.05	.05	.05	.50	.60	.60	.70	.40	.10	.05	.70	1.0
12	.05	.05	.05	.50	.50	.60	.70	.40	.10	.05	.70	.20
13	.05	.05	.05	.50	.50	.60	.70	.35	.10	.05	.70	.50
14	.05	.05	.10	.50	.50	.60	.70	.30	.10	.05	.70	.10
15	.05	.05	.20	.50	.50	.60	.70	.30	.10	.05	.60	.10
16	.05	.05	.20	.50	.50	.60	.90	.30	.08	.05	.60	.10
17	.05	.05	.20	.50	.50	.60	.70	.30	.06	.05	.60	.10
18	.05	.05	.20	.50	.50	.60	.60	.30	.05	.05	.60	.10
19	.05	.05	.20	.50	.50	.60	.60	.25	.05	.05	.60	.10
20	.05	.05	.20	.50	.50	.60	.60	.20	.05	.05	.60	.10
21	.05	.05	.20	.50	.50	.60	.60	.20	.05	.05	.60	.10
22	.05	.05	.20	.50	.50	.60	.60	.20	.05	.05	.60	.10
23	.05	.05	.20	.50	.50	.60	.60	.20	.05	.05	.60	1.5
24	.05	.05	.20	.50	.50	.60	.60	.20	.05	.05	.60	.90
25	.05	.05	.30	.50	.50	.60	.60	.20	.05	.95	.50	.70
26	.05	.05	.30	.50	.50	.60	.60	.20	.05	.80	.50	.70
27	.05	.05	.30	.50	.50	.60	.55	.15	.05	.70	.50	.70
28	.05	.05	.30	.50	.50	.60	.50	.10	.05	.70	.50	.70
29	.05	.05	.30	.50	.50	.60	.50	.10	.05	.70	.50	.70
30	.05	.05	.30	.50	---	.60	.50	.10	.05	.70	.50	.70
31	.05	---	.40	.50	---	.60	---	.10	---	.70	.50	---
TOTAL	1.55	1.50	4.95	15.65	25.60	20.10	19.45	9.60	2.29	6.45	19.30	38.30
MEAN	.050	.050	.16	.50	.88	.65	.65	.31	.076	.21	.62	1.28
MAX	.05	.05	.40	.60	6.0	1.3	.90	.50	.10	.95	.70	25
MIN	.05	.05	.05	.50	.50	.50	.50	.10	.05	.05	.50	.10
AC-FT	3.1	3.0	9.8	31	51	40	39	19	4.5	13	38	76
CAL YR 1975	TOTAL	178.21	MEAN	.49	MAX	85	MIN	0	AC-FT	353		
WTR YR 1976	TOTAL	164.74	MEAN	.45	MAX	25	MIN	.05	AC-FT	327		

10255810 BORREGO PALM CREEK NEAR BORREGO SPRINGS, CA

LOCATION.--Lat 33°16'44", long 116°25'45", in Anza-Borrego Desert State Park, San Diego County, on left bank 3.3 mi (5.3 km) northwest of Borrego Springs.

DRAINAGE AREA.--21.8 mi² (56.5 km²).

PERIOD OF RECORD.--October 1950 to current year. Prior to October 1960, published as "Palm Canyon Creek near Borrego Springs." Monthly discharge only for October to November 1950, published in WSP 1734.

GAGE.--Water-stage recorder. Altitude of gage is 1,200 ft (366 m), from topographic map.

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

AVERAGE DISCHARGE.--26 years, 0.31 ft³/s (0.009 m³/s), 225 acre-ft/yr (277,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,000 ft³/s (56.6 m³/s), estimated, Aug. 23, 1955, gage height, 9.9 ft (3.02 m) from floodmarks; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13 ft³/s (0.37 m³/s) Feb. 9, gage height, 2.55 ft (0.777 m), no peak above base of 15 ft³/s; no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	.38	.17	.05				0
2					.01	1.0	.18	.04				0
3					.01	1.3	.15	.04				0
4					.02	.81	.15	.03				0
5					.46	.80	.15	.03				0
6					1.9	.71	.17	.03				0
7					3.2	.65	.16	.03				0
8					2.1	.64	.16	.03				0
9					7.2	.59	.15	.02				0
10					3.5	.57	.14	.02				1.4
11					1.7	.54	.13	.02				.09
12					1.1	.49	.17	.01				0
13					.80	.42	.18	.01				0
14					.67	.29	.33	.01				0
15					.59	.27	.53	0				0
16					.53	.25	1.2	0				0
17					.48	.24	.56	0				0
18					.43	.23	.35	0				0
19					.38	.22	.30	0				0
20					.35	.21	.25	0				0
21					.32	.19	.22	0				0
22					.29	.17	.20	0				0
23					.29	.16	.17	0				0
24					.26	.15	.14	0				0
25					.25	.14	.12	0				0
26					.23	.14	.10	0				0
27					.23	.15	.09	0				0
28					.24	.17	.08	0				0
29					.23	.16	.06	0				0
30					---	.15	.06	0				0
31		---			---	.16	---	0	---			---
TOTAL	0	0	0	0	27.77	12.35	6.82	.37	0	0	0	1.49
MEAN	0	0	0	0	.96	.40	.23	.012	0	0	0	.050
MAX	0	0	0	0	7.2	1.3	1.2	.05	0	0	0	1.4
MIN	0	0	0	0	0	.14	.06	0	0	0	0	0
AC-FT	0	0	0	0	55	24	14	.7	0	0	0	3.0
CAL YR 1975	TOTAL	32.67	MEAN	.090	MAX	2.3	MIN	0	AC-FT	65		
WTR YR 1976	TOTAL	48.80	MEAN	.13	MAX	7.2	MIN	0	AC-FT	97		

SALTON SEA BASIN

10255850 VALLECITO CREEK NEAR JULIAN, CA

LOCATION.--Lat 32°59'10", long 116°25'10", in SW¼NE¼ sec.1, T.14 S., R.5 E., San Diego County, on right bank 0.2 mi (0.3 km) downstream from Cottonwood Wash, and 12.6 mi (20.3 km) southeast of Julian.

DRAINAGE AREA.--39.7 mi² (102.8 km²).

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,950 ft (594 m) above mean sea level (from topographic map).

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

AVERAGE DISCHARGE.--13 years, 0.12 ft³/s (0.003 m³/s), 87 acre-ft/yr (107,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,160 ft³/s (32.9 m³/s) Sept. 10, 1976, gage height, 6.30 ft (1.920 m), from average between high-water mark in well and D.P.I., from rating curve extended above 0.10 ft³/s (0.003 m³/s) on basis of slope-area study of maximum flow; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 15. ft³/s (0.43 m³/s) and maximum (*), from rating extended above 0.10 ft³/s (0.003 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)	
Feb. 8	2200	20	0.57	2.39	0.729	Sept. 10	1100	*1160	32.9	6.30	1.920
July 25	1700	212	6.00	5.23	1.594						

Minimum daily discharge, 0.01 ft³/s (<0.001 m³/s) Aug. 4, 5, Sept. 6-9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.04	.04	.04	.03	.04	.04	.04	.04	.02	.02	.04
2	.03	.04	.05	.04	.03	.04	.04	.05	.04	.02	.02	.02
3	.04	.03	.07	.04	.03	.04	.04	.04	.05	.02	.02	.02
4	.04	.03	.06	.04	.04	.04	.05	.05	.05	.03	.01	.02
5	.04	.03	.06	.04	.04	.04	.05	.05	.04	.03	.01	.02
6	.04	.03	.06	.04	.04	.04	.05	.05	.04	.03	.04	.01
7	.04	.04	.06	.04	.04	.04	.05	.05	.04	.03	.06	.01
8	.04	.04	.06	.04	.05	.04	.05	.05	.04	.03	.07	.01
9	.04	.03	.06	.04	1.4	.04	.05	.05	.04	.03	.08	.01
10	.05	.02	.07	.04	.65	.04	.05	.05	.05	.03	.09	42
11	.05	.02	.06	.04	.60	.04	.05	.05	.05	.03	.09	3.0
12	.05	.04	.05	.04	.52	.03	.05	.05	.04	.03	.09	1.5
13	.04	.04	.05	.04	.34	.03	.05	.05	.04	.03	.09	.80
14	.04	.04	.05	.04	.20	.03	.05	.05	.03	.03	.11	.50
15	.04	.04	.05	.04	.14	.03	.05	.06	.03	.03	.11	.35
16	.04	.03	.05	.03	.09	.03	.05	.07	.03	.02	.11	.25
17	.04	.03	.05	.04	.08	.03	.06	.07	.03	.03	.11	.19
18	.04	.03	.05	.04	.07	.03	.06	.05	.03	.03	.09	.14
19	.04	.02	.05	.04	.07	.03	.06	.05	.03	.03	.09	.10
20	.05	.02	.04	.03	.06	.04	.05	.05	.04	.02	.08	.09
21	.04	.02	.03	.03	.05	.04	.05	.06	.03	.02	.07	.08
22	.05	.02	.03	.03	.05	.04	.05	.06	.03	.03	.06	.07
23	.04	.02	.03	.03	.05	.04	.05	.06	.03	.03	.06	.06
24	.04	.03	.04	.03	.05	.04	.05	.06	.03	.02	.06	.05
25	.04	.04	.04	.03	.05	.04	.05	.07	.03	4.6	.04	.05
26	.04	.04	.04	.03	.05	.04	.05	.06	.03	.11	.03	.05
27	.05	.05	.04	.03	.04	.03	.05	.06	.03	.05	.04	.05
28	.05	.04	.04	.03	.04	.03	.05	.05	.03	.03	.04	.05
29	.05	.04	.04	.03	.04	.03	.05	.05	.02	.02	.04	.05
30	.04	.04	.04	.03	---	.04	.04	.05	.02	.02	.04	.05
31	.04	---	.04	.03	---	.04	---	.04	---	.02	.04	---
TOTAL	1.30	.98	1.50	1.11	5.44	1.13	1.47	1.64	1.06	5.50	1.91	49.64
MEAN	.042	.033	.048	.036	.19	.037	.049	.053	.035	.18	.062	1.65
MAX	.05	.05	.07	.04	1.4	.04	.06	.07	.05	4.6	.11	42
MIN	.03	.02	.03	.03	.03	.03	.04	.04	.02	.02	.01	.01
AC-FT	2.6	1.9	3.0	2.2	11	2.2	2.9	3.4	2.1	11	3.8	98
CAL YR 1975	TOTAL	33.54	MEAN	.092	MAX	8.3	MIN	.02	AC-FT	67		
WTR YR 1976	TOTAL	72.68	MEAN	.20	MAX	42	MIN	.01	AC-FT	144		

SALTON SEA BASIN

10255885 SAN FELIPE CREEK NEAR WESTMORLAND, CA

LOCATION.--Lat 33°07'25", long 115°51'08", in NW¼SW¼ sec.17, T.12 S., R.11 E., Imperial County, on left bank 320 ft (98 m) downstream from U.S. Highway 99, and 14.6 mi (23.5 km) northwest of Westmorland.

DRAINAGE AREA.--1,693 mi² (4,385 km²).

PERIOD OF RECORD.--December 1960 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 190 ft (58 m) below mean sea level, from topographic map.

REMARKS.--Records poor. No regulation above station. Diversion and pumping for domestic use and irrigation in Borrego Valley 25 mi (40 km) upstream.

AVERAGE DISCHARGE.--15 years (water years 1962-76), 6.88 ft³/s (0.195 m³/s), 4,980 acre-ft/yr (6.14 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 100,000 ft³/s (2,830 m³/s) Sept. 10, 1976, gage height, 19.0 ft (5.79 m), from rating curve extended above 11 ft³/s (0.31 m³/s) on basis of contracted-opening measurement combined with road overflow at peak gage height; no flow for some months in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s (5.66 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)	
Feb. 9	0100	2860	81.00	10.29	3.136	Sept. 10	Unknown	*100000	2830	19.0	5.79
July 26	1800	1730	48.99	9.12	2.780	Sept. 23	2315	11300	320	11.6	3.54

Minimum daily discharge, no flow many months.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				.14	.07	.01	.01	0		0		0
2				.14	.07	.01	.01	0		0		0
3				.14	.07	.01	.01	0		0		0
4				.14	.07	.01	.01	0		0		0
5				.14	.07	.01	.01	0		0		0
6				.14	.07	.01	.01	0		0		0
7				.14	.07	.01	.01	5.5		0		0
8				.14	11	.01	.01	.15		0		0
9				.14	335	.01	.01	0		0		0
10				.13	1.0	.01	.01	0		0	17100	0
11				.13	.10	.01	0	0		0		480
12				.13	.05	.01	0	0		0		24
13				.13	.02	.01	0	0		0		2.0
14				.12	.01	.02	0	0		0		0
15				.12	.01	.02	0	0		0		0
16				.12	.01	.02	0	0		0		0
17				.11	.01	.02	0	0		0		0
18				.11	.01	.02	0	0		0		0
19				.11	.01	.02	0	0		0		0
20				.11	.01	.02	0	0		0		0
21				.10	.01	.02	0	0		0		0
22				.10	.01	.02	0	0		0		0
23				.10	.01	.02	0	0		0		1040
24				.09	.01	.02	0	0		0		1200
25				.09	.01	.02	0	0		1.2		.50
26				.09	.01	.02	0	0		210		0
27				.09	.01	.02	0	0		73		0
28				.08	.01	.02	0	0		0		0
29				.08	.01	.02	0	0		0		0
30				.08	---	.02	0	0		0		0
31		---		.08	---	.02	---	0	---	0		---
TOTAL	0	0	0	3.56	347.82	.49	.10	5.65	0	284.2	0	19846.50
MEAN	0	0	0	.11	12.0	.016	.003	.18	0	9.17	0	662
MAX	0	0	0	.14	335	.02	.01	5.5	0	210	0	17100
MIN	0	0	0	.08	.01	.01	0	0	0	0	0	0
AC-FT	0	0	0	7.1	690	1.0	.2	11	0	564	0	39370
CAL YR 1975	TOTAL	932.91	MEAN	2.56	MAX	415	MIN	0	AC-FT	1850		
WTR YR 1976	TOTAL	20488.32	MEAN	56.0	MAX	17100	MIN	0	AC-FT	40640		

SALTON SEA BASIN

10256000 WHITEWATER RIVER AT WHITE WATER, CA

LOCATION.--Lat 33°56'48", long 116°38'24", in NW¼NW¼NE¼ sec.2, T.3 S., R.3 E., Riverside County, on right bank 1.5 mi (2.4 km) north of White Water, and 3.5 mi (5.6 km) upstream from San Geronio River.

DRAINAGE AREA.--57.5 mi² (148.9 km²), revised.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1948 to current year.

GAGE.--Water-stage recorder on river; water-stage recorder and Cipolletti weir on diversion 500 ft (152 m) downstream. Datum of river gage is 1,610 ft (491 m) above mean sea level. Feb. 24, 1950, to Sept. 30, 1952, and Apr. 13, 1960, to June 19, 1968, supplementary gages at different sites and datums within 200 ft (61 m) of base gage. Since Aug. 12, 1969, supplementary gage at site 1.5 mi (2.4 km) downstream at different datum.

REMARKS.--Records poor. No gage-height record Feb. 9-10, Feb. 28 to Mar. 8, April 1-30, July 1-30. White Water Mutual Water Co. diverts 50 ft (15 m) downstream. Monthly discharge is combined with flow from infiltration line that bypasses station. No regulation above station. Water is diverted out of basin about 15 mi (24 km) upstream to powerplants in San Geronio River basin and then to an area north of Banning for irrigation. One small diversion for domestic use and one for irrigation are made 2 to 3 mi (3.2 to 4.8 km) upstream.

COOPERATION.--Records of bypass in infiltration line were furnished by White Water Mutual Water Co.; records of diversion, 15 mi (24 km) upstream, were furnished by Southern California Edison Co.

AVERAGE DISCHARGE.--River only: 28 years, 15.6 ft³/s (0.442 m³/s), 11,300 acre-ft/yr (13.9 hm³/yr). Combined river and infiltration line: 27 years (water years 1950-76), 17.1 ft³/s (0.484 m³/s), 12,390 acre-ft/yr (15.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--River only: Maximum discharge, 24,000 ft³/s (680 m³/s) Nov. 22, 1965, gage height, 13.60 ft (4.145 m), from rating curve extended above 660 ft³/s (18.7 m³/s) on basis of field estimate of maximum flow; no flow at times in some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--River only: Maximum discharge, 42,000 ft³/s (1,190 m³/s) Mar. 2, 1938, by slope-area measurement of peak flow, at site 2.5 mi (4.0 km) upstream, drainage area, 51.4 mi² (133 km²).

EXTREMES FOR CURRENT YEAR.--River only: Peak discharges above base of 100 ft³/s (2.83 m³/s) and maximum (*), based on slope-conveyance measurement of peak flow:

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Feb. 8	1830	218	6.17	13.76	4.194
Sept. 10	2100	*477	13.5	15.66	4.773

Minimum daily discharge, 0.90 ft³/s (0.026 m³/s) Sept. 28-30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	7.7	9.0	5.9	5.5	45	5.0	4.0	3.0	1.2	1.0	1.0
2	6.0	8.0	9.0	5.9	5.3	15	5.0	4.0	3.0	1.2	1.0	1.0
3	5.9	7.7	9.0	5.9	5.9	55	5.0	4.0	3.0	1.2	1.0	1.0
4	5.9	8.3	9.0	5.9	6.1	20	4.5	3.5	3.0	1.2	1.0	1.0
5	5.8	8.3	9.0	5.9	6.5	10	4.5	3.5	2.5	1.2	1.0	1.0
6	5.8	7.1	9.0	5.9	28	7.0	4.5	3.5	2.5	1.2	1.0	1.0
7	5.7	6.3	9.0	5.9	96	6.5	4.0	3.5	2.5	1.2	1.0	1.0
8	5.7	6.5	9.0	5.9	105	6.0	4.0	3.5	2.5	1.2	1.0	1.0
9	5.7	6.5	9.0	5.9	20	6.0	4.0	3.5	2.5	1.2	1.0	1.5
10	5.5	6.5	9.0	5.9	15	5.5	4.0	3.5	2.5	1.2	1.0	140
11	5.3	6.5	9.0	5.7	10	5.5	4.0	3.5	2.0	1.2	1.0	128
12	5.7	6.5	9.5	5.7	9.0	5.5	4.0	3.5	2.0	1.2	1.0	10
13	5.9	7.4	9.9	5.5	8.0	5.0	4.0	3.5	2.0	1.2	1.0	5.0
14	5.7	8.3	10	5.5	7.5	5.0	4.0	3.5	2.0	1.2	1.0	3.0
15	5.3	7.4	12	5.5	7.0	5.0	6.0	3.5	2.0	1.2	1.0	2.0
16	5.5	7.1	11	5.5	6.5	4.5	6.5	3.0	1.5	1.2	1.0	1.5
17	6.0	7.1	9.9	5.3	6.0	4.5	5.5	3.0	1.5	1.1	1.0	1.4
18	6.1	7.4	8.9	5.3	5.5	4.5	5.0	3.0	1.5	1.0	1.0	1.4
19	5.9	7.4	8.6	5.3	5.5	4.5	5.0	3.0	1.5	1.0	1.0	1.4
20	5.9	7.4	8.6	5.7	5.5	4.5	5.0	3.0	1.5	1.0	1.0	1.4
21	5.3	7.4	8.9	5.9	5.5	4.5	5.0	3.0	1.5	1.0	1.0	1.4
22	5.3	7.7	11	5.9	5.5	5.0	4.5	3.0	1.5	1.0	1.0	1.1
23	4.7	7.7	11	5.9	5.5	5.0	4.5	3.0	1.5	1.0	1.0	1.1
24	4.9	7.1	10	5.9	5.5	5.0	4.5	3.0	1.5	1.0	1.0	5.0
25	4.9	7.1	7.1	5.7	5.5	5.5	4.5	3.0	1.5	1.0	1.0	2.0
26	4.5	7.1	6.5	5.7	5.0	5.5	4.5	3.0	1.2	1.0	1.0	1.0
27	4.3	9.3	6.3	5.7	5.0	5.5	4.0	3.0	1.2	1.0	1.0	1.0
28	4.5	13	5.7	5.9	5.0	5.5	4.0	3.0	1.2	1.0	1.0	.90
29	5.3	9.0	5.7	6.1	5.0	5.5	4.0	3.0	1.2	1.0	1.0	.90
30	8.4	9.0	5.7	5.9	---	5.5	4.0	3.0	1.2	1.0	1.0	.90
31	14	---	5.7	5.7	---	5.0	---	3.0	---	1.0	1.0	---
TOTAL	181.4	229.8	271.0	178.3	411.3	282.0	137.0	102.0	58.0	34.3	31.0	319.90
MEAN	5.85	7.66	8.74	5.75	14.2	9.10	4.57	3.29	1.93	1.11	1.00	10.7
MAX	14	13	12	6.1	105	55	6.5	4.0	3.0	1.2	1.0	140
MIN	4.3	6.3	5.7	5.3	5.0	4.5	4.0	3.0	1.2	1.0	1.0	.90
AC-FT	360	456	538	354	816	559	272	202	115	68	61	635
(a)	410	512	598	423	866	611	312	262	170	101	97	675
(b)	72	71	80	72	47	72	64	104	70	53	53	37

CAL YR 1975 TOTAL 2593.70 MEAN 7.11 MAX 49 MIN 3.8 AC-FT 5140 AC-FT a 5774
WTR YR 1976 TOTAL 2236.00 MEAN 6.11 MAX 140 MIN .90 AC-FT 4440 AC-FT a 5037

a Combined discharge, in acre-feet, of river and infiltration line.
b Discharge, in acre-feet, diverted from basin 15 mi (24 km) upstream.

10256000 WHITEWATER RIVER AT WHITE WATER, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water year 1967 to current year.

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)
DEC 15...	1000	259	8.2	9.0	10	10.7	180	18
MAR 22...	0900	350	8.0	14.5	30	9.4	187	18
JUN 21...	0900	400	7.6	19.5	2	8.0	189	13

DATE	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)
DEC 15...	54	11	13	13	.4	5.5	198	0	162
MAR 22...	54	12	13	13	.4	4.3	206	0	169
JUN 21...	54	13	15	14	.5	4.7	215	0	176

DATE	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED BORON (B) (UG/L)
DEC 15...	2.0	40	3.9	1.0	2598	3.53	.74	0
MAR 22...	3.3	39	2.8	.9	226	.31	.84	40
JUN 21...	8.6	36	5.0	1.1	239	.33	.34	0

SALTON SEA BASIN

10256400 SAN GORGONIO RIVER NEAR WHITE WATER, CA

LOCATION.--Lat 33°55'14", long 116°41'45", in NW¼SE¼SW¼ sec.8, T.3 S., R.3 E., Riverside County, on right bank 0.2 mi (0.3 km) south of Interstate Highway 10, and 3.4 mi (5.5 km) west of town of White Water.

DRAINAGE AREA.--154 mi² (399 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 1,320 ft (402 m), from topographic map. Prior to Mar. 19, 1968, flood-hydrograph recorder.

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

AVERAGE DISCHARGE.--10 years, 1.35 ft³/s (0.038 m³/s), 980 acre-ft/yr (1.21 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,250 ft³/s (205 m³/s) Jan. 25, 1969, gage height, 6.0 ft (1.83 m), from floodmarks, on basis of slope-area measurement of maximum flow; no flow most of each year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Nov. 23, 1965, reached a stage of 6.10 ft (1.859 m), from floodmarks, discharge, 4,500 ft³/s (127 m³/s), on basis of slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 50 ft³/s (1.42 m³/s) and maximum (*), on basis of slope-conveyance measurement of peak flow:

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)			(ft ³ /s)	(m ³ /s)	(ft)	(m)
Feb. 9	0330	135	3.82	2.50	0.762	Sept. 10	Unknown	*1680	47.6	3.77	1.149
Mar. 1	2000	66	1.87	2.00	0.610	Sept. 24	Unknown	890	25.2	3.12	0.951

Minimum daily discharge, no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	2.8						0
2					0	0						0
3					0	0						0
4					0	0						0
5					0	0						0
6					0	0						0
7					0	0						0
8					2.0	0						0
9					7.0	0						0
10					0	0						170
11					0	0						0
12					0	0						0
13					0	0						0
14					0	0						0
15					0	0						0
16					0	0						0
17					0	0						0
18					0	0						0
19					0	0						0
20					0	0						0
21					0	0						0
22					0	0						0
23					0	0						20
24					0	0						10
25					0	0						0
26					0	0						0
27					0	0						0
28					0	0						0
29					0	0						0
30					---	0						0
31		---			---	0	---		---			---
TOTAL	0	0	0	0	9.0	2.8	0	0	0	0	0	200
MEAN	0	0	0	0	.31	.090	0	0	0	0	0	6.67
MAX	0	0	0	0	7.0	2.8	0	0	0	0	0	170
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	18	5.6	0	0	0	0	0	397
CAL YR 1975	TOTAL	22.72	MEAN .062	MAX 17	MIN 0	AC-FT 45						
WTR YR 1976	TOTAL	211.80	MEAN .58	MAX 170	MIN 0	AC-FT 420						

SALTON SEA BASIN

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10256500 SNOW CREEK NEAR WHITE WATER, CA

LOCATION.--Lat 33°52'14", long 116°40'49", in SE¼NW¼NW¼ sec.33, T.3 S., R.3 E., Riverside County, on left bank 300 ft (91 m) upstream from Southern Pacific Railroad diversion dam, 300 ft (91 m) downstream from East Fork, 2.5 mi (4.0 km) upstream from mouth, and 4.4 mi (7.1 km) southwest of White Water.

DRAINAGE AREA.--10.8 mi² (28.0 km²).

PERIOD OF RECORD.--July to December 1921, May 1922 to February 1927, December 1927 to September 1931, October 1959 to current year. Yearly discharge only for 1930, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 2,000 ft (610 m), from topographic map. Prior to September 1931, at various sites within 500 ft (152 m) of present site at different datums. September 1931 to Oct. 6, 1970, at site 250 ft (76 m) downstream at datum 15.9 ft (4.85 m) lower.

REMARKS.--Records poor. No gage-height record Dec. 22 to Jan. 22, Sept. 10-30. No regulation or diversion above station. Palm Springs Water Co. diverts 50 ft (15 m) downstream, generally taking the entire base flow.

AVERAGE DISCHARGE.--24 years (water years 1923-26, 1929-31, 1960-76), 8.09 ft³/s (0.229 m³/s), 5,860 acre-ft/yr (7.23 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,000 ft³/s (368 m³/s) Jan. 25, 1969, gage height, 27.4 ft (8.32 m), from floodmarks, present datum, from rating curve extended above 55 ft³/s (1.56 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 2.1 ft³/s (0.059 m³/s) Jun 23-27, Sept. 5-11, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 50 ft³/s (1.42 m³/s) and maximum (*), from rating curve extended above 100 ft³/s (2.83 m³/s) on basis of area-velocity measurement of peak flow at gage height 21.88 ft (6.669 m):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Feb. 8	1145	167	4.729	18.21	5.550
Sept. 10	Unknown	*4000	113.3	21.88	6.669

Minimum daily discharge, 2.8 ft³/s (0.079 m³/s) Aug. 8, 10-14, 28.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	3.6	4.5	3.6	3.4	4.0	5.1	7.3	6.4	3.7	3.1	3.0
2	3.0	3.4	5.0	3.6	3.4	21	5.1	8.1	6.3	3.6	3.0	3.0
3	3.0	3.3	4.5	3.6	3.6	25	5.1	8.6	6.3	3.5	3.0	3.2
4	3.0	3.3	4.3	3.6	4.8	11	5.3	8.0	5.9	3.5	3.0	3.3
5	3.0	3.3	4.0	3.6	6.7	8.5	5.1	8.1	5.7	3.5	3.0	3.5
6	3.0	3.3	4.0	3.6	9.9	7.0	5.0	8.1	5.5	3.6	2.9	3.8
7	3.0	3.3	4.0	3.6	8.2	6.5	4.9	17	5.4	3.5	2.9	3.6
8	3.0	3.3	4.0	3.5	81	6.5	4.9	12	5.3	3.6	2.8	3.5
9	3.0	3.3	3.8	3.5	28	6.4	4.8	11	5.3	3.5	2.9	3.6
10	3.0	3.3	3.8	3.5	12	6.2	4.9	10	5.4	3.5	2.8	460
11	3.0	3.3	3.8	3.5	8.5	6.0	5.0	9.9	5.2	3.6	2.8	170
12	3.0	3.3	3.8	3.4	6.1	5.8	5.1	10	5.0	3.5	2.8	80
13	3.0	3.3	3.8	3.4	5.1	5.7	5.3	10	4.9	3.5	2.8	40
14	3.0	3.3	3.8	3.4	5.5	5.7	5.2	10	4.9	3.6	2.8	20
15	3.0	3.3	3.8	3.4	5.3	5.6	5.9	10	4.7	3.4	2.9	15
16	3.0	3.3	3.8	3.4	5.2	5.6	6.3	10	4.7	3.4	3.0	10
17	3.0	3.3	3.8	3.4	5.0	5.7	5.5	9.6	4.7	3.3	3.0	7.0
18	3.0	3.3	3.8	3.4	4.8	6.0	5.5	9.2	4.8	3.2	3.0	6.0
19	3.0	3.3	3.8	3.4	4.7	6.2	5.6	9.4	4.9	3.1	3.0	5.5
20	4.2	3.3	3.8	3.4	4.8	6.0	5.6	9.1	4.8	3.1	3.0	5.0
21	3.8	3.3	3.7	3.3	5.9	5.8	6.0	8.0	4.4	3.1	3.0	5.0
22	3.5	3.3	3.7	3.3	8.3	5.7	6.7	7.5	4.2	3.3	3.0	5.0
23	3.5	3.3	3.7	3.3	7.0	5.6	7.0	7.2	4.0	3.4	2.9	5.0
24	3.5	3.4	3.7	3.3	5.0	5.7	7.2	7.0	4.0	3.3	3.0	40
25	3.5	3.5	3.7	3.3	5.0	5.7	8.0	6.8	3.9	3.3	3.0	15
26	3.5	3.6	3.7	3.3	5.0	5.9	8.2	6.8	3.8	3.3	2.9	9.0
27	3.5	3.7	3.7	3.3	4.5	5.7	7.5	7.0	3.8	3.4	2.9	7.0
28	3.5	3.7	3.7	3.3	4.5	5.6	7.1	7.1	3.8	3.4	2.8	6.0
29	3.5	3.8	3.7	3.3	4.5	5.4	6.8	6.9	3.7	3.2	2.9	27
30	4.0	4.0	3.6	3.3	---	5.3	6.9	6.5	3.8	3.2	3.0	8.3
31	3.6	---	3.6	3.4	---	5.2	---	6.4	---	3.2	2.9	---
TOTAL	100.6	102.0	120.4	106.2	265.7	258.0	176.6	272.6	145.5	105.3	90.8	976.3
MEAN	3.25	3.40	3.88	3.43	9.16	8.32	5.89	8.79	4.85	3.40	2.93	32.5
MAX	4.2	4.0	5.0	3.6	81	40	8.2	17	6.4	3.7	3.1	460
MIN	3.0	3.3	3.6	3.3	3.4	5.2	4.8	6.4	3.7	3.1	2.8	3.0
AC-FT	200	202	239	211	527	512	350	541	289	209	180	1940
CAL YR 1975	TOTAL	1785.3	MEAN 4.89	MAX 16	MIN 2.6	AC-FT 3540						
WTR YR 1976	TOTAL	2720.0	MEAN 7.43	MAX 460	MIN 2.8	AC-FT 5400						

SALTON SEA BASIN

10257600 MISSION CREEK NEAR DESERT HOT SPRINGS, CA

LOCATION.--Lat 34°00'40", long 116°37'38", in NE&SW¼ sec.12, T.2 S., R.3 E., Riverside County, in Mission Creek Indian Reservation, 0.6 mi (1.0 km) downstream from West Fork, and 6.8 mi (10.9 km) northwest of Desert Hot Springs.

DRAINAGE AREA.--35.7 mi² (92.5 km²).

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

GAGE.--Water-stage recorder with rain-gage attachment. Altitude of gage is 2,400 ft (732 m), from topographic map.

REMARKS.--Records fair. Slight regulation of low flow by two small dams with a combined capacity of about 3 acre-ft (3,700 m³), 2 mi (3 km) above station. Precipitation, in inches, for the 1975 water year was as follows: October, 0.90; November, 0.20; December, 1.1; February, 0.60; March, 0.80; April, 1.1; July, 0.10; September, 0.10. These were inadvertently left out of the 1975 report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,660 ft³/s (47.0 m³/s) Jan. 25, 1969, gage height, 6.40 ft (1.951 m) on basis of slope-area measurement of maximum flow; no flow for long periods in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9.8 ft³/s (0.28 m³/s) Feb. 9, gage height, 2.32 ft (0.707 m), no peak above base of 50 ft³/s (1.42 m³/s); minimum daily, no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	.72	.23	.06				
2					0	.64	.23	.04				
3					0	.76	.23	.05				
4					0	.64	.37	.06				
5					0	.45	.37	.08				
6					0	.54	.29	.11				
7					.73	.45	.23	.18				
8					1.4	.45	.18	.11				
9					5.8	.54	.23	.08				
10					2.2	.64	.18	.06				
11					.90	.64	.18	.04				
12					.64	.54	.23	.02				
13					.36	.54	.37	.02				
14					.31	.37	.54	.01				
15					.54	.37	.64	.02				
16					.37	.29	.54	.01				
17					.29	.23	.45	.02				
18					.23	.23	.37	.01				
19					.29	.23	.23	.01				
20					.37	.18	.23	.01				
21					.16	.18	.14	.01				
22					.18	.14	.18	.01				
23					.23	.11	.18	0				
24					.18	.14	.11	0				
25					.14	.14	.08	0				
26					.08	.18	.14	0				
27					.06	.16	.18	0				
28					.05	.10	.18	0				
29					.05	.29	.11	0				
30					---	.23	.08	0				
31		---			---	.29	---	0	---			---
TOTAL	0	0	0	0	15.56	11.41	7.70	1.02	0	0	0	0
MEAN	0	0	0	0	.54	.37	.26	.033	0	0	0	0
MAX	0	0	0	0	5.8	.76	.64	.18	0	0	0	0
MIN	0	0	0	0	0	.10	.08	0	0	0	0	0
AC-FT	0	0	0	0	31	23	15	2.0	0	0	0	0
(a)	0	.60	0	0	1.5	.90	.30	.50	0	0	0	2.1
CAL YR 1975	TOTAL	1.05	MEAN	.0030	MAX	.18	MIN	0	AC-FT	2.1		
WTR YR 1976	TOTAL	35.69	MEAN	.098	MAX	5.8	MIN	0	AC-FT	71		

à Precipitation, in inches

SALTON SEA BASIN

10257710 CHINO CANYON CREEK NEAR PALM SPRINGS, CA

LOCATION.--Lat 33°50'21", long 116°36'45", in SW¼SW¼NW¼ sec.7, T.4 S., R.4 E., Riverside County, on left bank 800 ft (244 m) downstream from tram building, 3.7 mi (6.0 km) west of Highway 111 on road leading to Palm Springs aerial tramway and 5.5 mi (8.8 km) west of Palm Springs.

DRAINAGE AREA.--3.88 mi² (10.05 km²).

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,500 ft (762 m), from topographic map.

REMARKS.--Records poor. Two diversions for the city of Palm Springs 0.5 mi (0.8 km) upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 240 ft³/s (6.80 m³/s) Sept. 10, 1976, gage height, 5.90 ft (1.798 m), from floodmark, from rating curve extended above 0.25 ft³/s (0.007 m³/s) on basis of slope-area measurement of maximum flow; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 240 ft³/s (6.80 m³/s) Sept. 10, 1976, gage height, 5.90 ft (1.798 m), from floodmark, from rating curve extended above 0.25 ft³/s (0.007 m³/s) on basis of slope-area measurement of maximum flow; no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	.40						0
2					0	0						0
3					0	0						0
4					0	0						0
5					0	0						0
6					0	0						0
7					0	0						0
8					0	0						0
9					1.2	0						0
10					0	0						6.0
11					0	0						.12
12					0	0						.92
13					0	0						.66
14					0	0						.60
15					0	0						.66
16					0	0						.36
17					0	0						0
18					0	0						0
19					0	0						0
20					0	0						0
21					0	0						0
22					0	0						0
23					0	0						0
24					0	0						.56
25					0	0						.60
26					0	0						.45
27					0	0						.21
28					0	0						0
29					0	0						.05
30					---	0						.29
31		---			---	0	---		---			---
TOTAL	0	0	0	0	1.2	.40	0	0	0	0	0	11.48
MEAN	0	0	0	0	.041	.013	0	0	0	0	0	.38
MAX	0	0	0	0	1.2	.40	0	0	0	0	0	6.0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	2.4	.8	0	0	0	0	0	23
CAL YR 1975	TOTAL	0.02	MEAN	.0001	MAX	.01	MIN	0	AC-FT	.0		
WTR YR 1976	TOTAL	13.08	MEAN	.036	MAX	6.0	MIN	0	AC-FT	26		

SALTON SEA BASIN

10258000 TAHQUITZ CREEK NEAR PALM SPRINGS, CA

LOCATION.--Lat 33°48'18", long 116°33'30", in NE¼SW¼SW¼ sec.22, T.4 S., R.4 E., Riverside County, on left bank 2.2 mi (3.5 km) southwest of Palm Springs, and 7 mi (11 km) upstream from mouth.

DRAINAGE AREA.--16.8 mi² (43.5 km²).

PERIOD OF RECORD.--October 1947 to current year.

GAGE.--Water-stage recorder. Datum of gage is 762.5 ft (232.41 m) above mean sea level (levels by Riverside County Flood Control District). Prior to Aug, 25, 1970, at datum 2.00 ft (0.610 m) higher.

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

AVERAGE DISCHARGE.--29 years, 3.62 ft³/s (0.103 m³/s), 2,620 acre-ft/yr (3.23 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,900 ft³/s (82.1 m³/s) Nov. 22, 1965, Jan. 25, 1969, gage height, 12.34 ft (3.761 m), from rating curve extended above 80 ft³/s (2.27 m³/s) on basis of slope-area measurements at gage heights 8.45 ft (2.576 m) and 10.34 ft (3.152 m) site and datum then in use; no flow for parts of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 256 ft³/s (7.25 m³/s) Sept. 10 (1500 hrs), gage height, 7.40 ft (2.256 m), no other peak above base of 50 ft³/s (1.42 m³/s), from rating curve extended above 10 ft³/s (0.28 m³/s) on basis of slope-area measurement made at gage height of 10.32 ft (3.145 m); no flow Oct. 1 to Dec. 26, July 6 to Sept. 9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	.15	.16	.50	1.5	3.1	2.1	.06		0
2			0	.15	.16	1.0	1.5	3.4	1.9	.04		0
3			0	.15	.16	1.7	1.5	3.6	1.7	.03		0
4			0	.15	.16	1.3	1.6	3.1	1.6	.02		0
5			0	.15	.16	1.1	1.6	3.1	1.5	.01		0
6			0	.15	.20	.97	1.5	3.0	1.4	0		0
7			0	.15	.25	.84	1.4	6.9	1.3	0		0
8			0	.15	1.0	.78	1.4	5.1	1.2	0		0
9			0	.15	5.4	.78	1.5	4.6	1.1	0		0
10			0	.15	2.5	.73	1.4	4.6	1.1	0		57
11			0	.15	1.0	.69	1.5	4.8	1.0	0		39
12			0	.15	.80	.69	1.5	4.9	.89	0		10
13			0	.15	.70	.63	1.5	5.0	.77	0		4.6
14			0	.15	.60	.63	1.5	4.8	.66	0		3.0
15			0	.15	.55	.60	1.4	4.9	.62	0		2.4
16			0	.15	.50	.54	1.5	4.7	.46	0		2.0
17			0	.15	.47	.51	1.4	4.4	.40	0		1.6
18			0	.15	.46	.54	1.3	4.0	.33	0		1.3
19			0	.15	.44	.63	1.3	3.9	.27	0		1.1
20			0	.15	.42	.91	1.4	3.7	.25	0		1.0
21			0	.16	.40	.97	1.5	3.4	.23	0		.98
22			0	.16	.40	.97	2.1	3.2	.20	0		.90
23			0	.16	.38	.97	2.6	3.0	.18	0		.92
24			0	.16	.37	1.1	2.8	2.8	.16	0		1.8
25			0	.16	.36	1.4	3.3	2.7	.14	0		4.6
26			0	.16	.36	1.7	3.5	2.5	.12	0		3.0
27			.12	.16	.35	1.7	3.3	2.3	.10	0		2.7
28			.14	.16	.35	1.6	3.1	2.2	.09	0		2.6
29			.15	.16	.35	1.5	3.1	2.1	.08	0		3.1
30			.15	.16	---	1.5	3.1	2.1	.07	0		2.8
31		---	.15	.16	---	1.5	---	2.1	---	0		---
TOTAL	0	0	.71	4.76	19.41	30.98	57.6	114.0	21.92	.16	0	146.40
MEAN	0	0	.023	.15	.67	1.00	1.92	3.68	.73	.005	0	4.88
MAX	0	0	.15	.16	5.4	1.7	3.5	6.9	2.1	.06	0	57
MIN	0	0	0	.15	.16	.50	1.3	2.1	.07	0	0	0
AC-FT	0	0	1.4	9.4	38	61	114	226	43	.3	0	290
CAL YR 1975	TOTAL	258.65	MEAN	.71	MAX	5.6	MIN	0	AC-FT	513		
WTR YR 1976	TOTAL	395.94	MEAN	1.08	MAX	57	MIN	0	AC-FT	785		

10258500 PALM CANYON CREEK NEAR PALM SPRINGS, CA

LOCATION.--Lat 33°44'42", long 116°32'05", in NE¼SW¼SE¼ sec.11, T.5 S., R.4 E., Riverside County, on right bank 0.8 mi (1.3 km) upstream from Murray Canyon Creek, and 6 mi (10 km) south of Palm Springs.

DRAINAGE AREA.--93.3 mi² (241.6 km²).

PERIOD OF RECORD.--January 1930 to January 1942, October 1947 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 700 ft (213 m), from topographic map. Prior to Jan. 14, 1942, at datum 0.2 ft (0.06 m) higher.

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

AVERAGE DISCHARGE.--40 years (water years 1931-41, 1948-76), 3.22 ft³/s (0.091 m³/s), 2,330 acre-ft/yr (2.87 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,050 ft³/s (115 m³/s) Sept. 10, 1976, gage height, 6.81 ft (2.076 m), from rating curve extended above 20 ft³/s (0.57 m³/s) on basis of slope-area measurement of maximum flow; no flow for several months in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft³/s (2.83 m³/s) and maximum (*), from rating curve extended above 20 ft³/s (0.57 m³/s) on basis of slope-area measurement of maximum 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)	
Feb. 9	0500	174	4.93	2.73	0.832	Sept. 23	1700	628	17.8	3.79	1.155
Sept. 10	1230	*4050	115	6.81	2.076						

Minimum daily discharge, no flow for several months.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	.16	0	0				0
2					0	2.1	0	0				0
3					0	7.6	0	0				0
4					0	2.6	0	0				0
5					0	1.8	0	0				0
6					0	1.3	0	0				0
7					0	1.2	0	1.9				0
8					0	1.0	0	.37				0
9					63	.90	0	0				0
10					9.9	.80	0	0				526
11					1.2	.73	0	0				25
12					.42	.63	0	0				2.0
13					.20	.48	0	0				.20
14					.07	.48	0	0				0
15					.02	.42	.01	0				0
16					0	.37	.20	0				0
17					0	.32	.05	0				0
18					0	.25	0	0				0
19					0	.20	0	0				0
20					0	.07	0	0				0
21					0	.06	0	0				0
22					0	.01	0	0				0
23					0	0	0	0				27
24					0	0	0	0				3.3
25					0	0	0	0				.36
26					0	0	0	0				.18
27					0	0	0	0				.10
28					0	0	0	0				0
29					0	0	0	0				.01
30					---	0	0	0				0
31		---			---	0	---	0	---			---
TOTAL	0	0	0	0	74.81	23.48	.26	2.27	0	0	0	584.15
MEAN	0	0	0	0	2.58	.76	.009	.073	0	0	0	19.5
MAX	0	0	0	0	63	7.6	.20	1.9	0	0	0	526
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	148	47	.5	4.5	0	0	0	1160
CAL YR 1975	TOTAL	7.50	MEAN .021	MAX	1.4	MIN 0	AC-FT	15				
WTR YR 1976	TOTAL	684.97	MEAN 1.87	MAX	526	MIN 0	AC-FT	1360				

SALTON SEA BASIN

10259000 ANDREAS CREEK NEAR PALM SPRINGS, CA

LOCATION.--Lat 33°45'36", long 116°32'57", in NW¼SE¼SE¼ sec.3, T.5 S., R.4 E., Riverside County, on left bank at Bureau of Indian Affairs diversion dam, 1.1 mi (1.8 km) above mouth, and 5.1 mi (8.2 km) south of Palm Springs

DRAINAGE AREA.--8.61 mi² (22.30 km²).

PERIOD OF RECORD.--October 1948 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 800 ft (244 m), from topographic map. Prior to Mar. 25, 1949, reference point at same site at different datum.

REMARKS.--Records poor. No regulation above station. One small diversion for domestic use about 1 mi (2 km) above station. No gage-height record July 7 to Sept. 16.

AVERAGE DISCHARGE.--28 years, 2.07 ft³/s (0.059 m³/s), 1,500 acre-ft/yr (1.85 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,960 ft³/s (55.5 m³/s) Aug. 31, 1954, gage height, 7.11 ft (2.167 m), from rating curve extended above 80 ft³/s (2.27 m³/s) on basis of slope-area measurement of maximum flow; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 30 ft³/s (0.85 m³/s) and maximum(*), on basis of slope-area measurement of peak flow:

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Feb. 9	0315	32.0	0.91	2.03	0.619
Sept. 10	Unknown	*225	6.37	2.90	0.884

Minimum daily discharge, 0.30 ft³/s (0.009 m³/s) Sept. 6-9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.72	.62	.96	1.1	.98	3.8	1.7	1.6	1.4	.78	.44	.31
2	.72	.61	1.0	1.0	1.0	3.2	1.6	1.6	1.4	.83	.43	.31
3	.72	.62	.98	1.0	1.0	2.6	1.6	1.6	1.3	.87	.42	.31
4	.72	.62	1.0	.98	1.1	2.4	1.7	1.6	1.3	.86	.42	.31
5	.66	.68	1.0	.96	1.1	2.2	1.6	1.6	1.2	.76	.42	.31
6	.66	.68	1.0	.96	1.3	2.2	1.6	1.6	1.2	.68	.40	.30
7	.72	.70	1.0	.93	1.3	2.1	1.6	1.6	1.2	.68	.40	.30
8	.66	.73	1.0	.94	1.9	2.1	1.6	1.6	1.3	.68	.38	.30
9	.68	.73	.99	.95	1.1	2.1	1.5	1.6	1.2	.68	.38	.30
10	.68	.73	.97	.95	4.3	2.0	1.5	1.6	1.2	.70	.38	59
11	.68	.73	.96	.96	2.8	1.9	1.6	1.6	1.3	.70	.36	11
12	.69	.75	.96	.94	2.6	1.9	1.5	1.6	1.3	.70	.36	4.0
13	.68	.76	.98	.96	2.3	1.8	1.6	1.6	1.2	.70	.36	2.0
14	.73	.75	.93	.95	2.3	1.6	1.8	1.6	1.2	.70	.35	1.3
15	.72	.76	.93	.96	2.2	1.7	2.3	1.6	1.2	.70	.35	1.2
16	.70	.76	.91	.92	2.2	1.7	2.5	1.7	1.2	.68	.35	1.1
17	.67	.77	.95	.88	2.4	1.7	2.4	1.7	1.2	.66	.35	1.1
18	.68	.78	.95	.89	2.4	1.7	2.7	1.6	1.1	.64	.34	1.1
19	.63	.86	.89	.90	2.4	1.8	2.3	1.6	1.1	.62	.34	1.1
20	.59	.87	.89	.91	2.4	1.8	1.8	1.5	1.0	.60	.34	1.1
21	.61	.87	.89	.92	2.5	1.7	1.8	1.5	1.0	.60	.33	1.1
22	.68	.89	.92	.95	2.5	1.7	1.7	1.5	.94	.58	.33	1.1
23	.67	.89	.95	.94	2.6	1.6	1.7	1.5	.91	.56	.33	1.2
24	.71	.89	.95	.91	2.4	1.6	1.7	1.5	.87	.54	.32	1.2
25	.67	.87	.94	.91	2.3	1.6	1.7	1.5	.92	.52	.32	1.2
26	.65	.89	.94	.90	2.3	1.8	1.7	1.5	.95	.50	.32	1.2
27	.61	.92	.97	.90	2.3	2.4	1.7	1.4	.86	.48	.32	1.2
28	.61	1.1	1.0	1.0	2.3	1.9	1.7	1.4	.84	.47	.31	1.2
29	.62	1.0	1.1	1.0	2.5	1.9	1.7	1.3	.84	.46	.31	1.2
30	.62	.94	1.1	1.0	---	1.9	1.7	1.4	.83	.45	.31	1.2
31	.68	---	1.1	1.0	---	1.9	---	1.4	---	.44	.31	---
TOTAL	20.84	23.77	30.11	29.47	70.68	62.3	53.6	48.0	33.46	19.82	11.08	98.55
MEAN	.67	.79	.97	.95	2.44	2.01	1.79	1.55	1.12	.64	.36	3.29
MAX	.73	1.1	1.1	1.1	11	3.8	2.7	1.7	1.4	.87	.44	59
MIN	.59	.61	.89	.88	.98	1.6	1.5	1.3	.83	.44	.31	.30
AC-FT	41	47	60	58	140	124	106	95	66	39	22	195
CAL YR 1975	TOTAL	412.40	MEAN	1.13	MAX	5.0	MIN	.11	AC-FT	818		
WTR YR 1976	TOTAL	501.68	MEAN	1.37	MAX	59	MIN	.30	AC-FT	995		

10259200 DEEP CREEK NEAR PALM DESERT, CA

LOCATION.--Lat 33°37'52", long 116°23'29", in SE¼NE¼SE¼ sec.19, T.6 S., R.6 E., Riverside County, on left bank 500 ft (152 m) downstream from unnamed tributary, and 6.3 mi (10.1 km) south of Palm Desert.

DRAINAGE AREA.--30.6 mi² (79.3 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 1,440 ft (439 m), from topographic map.

REMARKS.--Records poor. No gage-height record Dec. 29 to Mar. 23, Apr. 7-29, May 8 to June 6, Sept. 10-29. No regulation or diversion above station.

AVERAGE DISCHARGE.--14 years, 0.72 ft³/s (0.020 m³/s), 522 acre-ft/yr (644,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,100 ft³/s (201 m³/s) Sept. 10, 1976, gage height, 7.84 ft (2.390 m), recorded in gage well, 9.85 ft (3.002 m) from floodmarks, from rating curve extended above 3.3 ft³/s (0.093 m³/s) on basis of slope-area measurements at gage heights 2.68 ft (0.817 m), 5.15 ft (1.570 m), and 7.84 ft (2.390 m); no flow for much of each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 20 ft³/s (0.57 m³/s) and maximum (*), from rating curve extended above 3.3 ft³/s (0.093 m³/s) on basis of slope-area measurements at gage heights 2.68 ft (0.817 m), 5.15 ft (1.570 m), and 7.84 ft (2.390 m):

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)	
Feb. 9	Unknown	920	26.1	4.88	1.487	Sept. 23	Unknown	96	2.72	3.15	0.960
Sept. 10	1300	*7100	201	7.84	2.390						

No flow for much of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	.50	.55	.35	.30	.05		0
2					0	.50	.50	.35	.30	.05		0
3					0	15	.50	.35	.25	.05		0
4					0	2.0	.50	.35	.25	.04		0
5					0	1.5	.50	.35	.25	.03		0
6					0	1.0	.50	.35	.25	.02		0
7					0	.90	.50	3.8	.25	.01		0
8					0	.90	.50	1.0	.25	0		0
9					120	.80	.50	.60	.25	0		0
10					10	.80	.45	.50	.20	0		850
11					3.5	.80	.45	.45	.20	0		250
12					2.5	.75	.45	.40	.20	0		5.0
13					2.0	.75	.45	.40	.20	0		2.5
14					1.7	.70	.45	.40	.20	0		2.0
15					1.5	.70	.45	.40	.20	0		1.7
16					1.3	.70	.45	.35	.20	0		1.5
17					1.1	.65	.45	.35	.20	0		1.4
18					1.0	.65	.45	.35	.20	0		1.3
19					.90	.65	.45	.35	.15	0		1.3
20					.80	.65	.45	.35	.15	0		1.3
21					.80	.60	.40	.35	.15	0		1.2
22					.70	.60	.40	.35	.15	0		1.2
23					.70	.60	.40	.35	.15	0		1.2
24					.60	.60	.40	.30	.15	0		2.5
25					.60	.60	.40	.30	.15	0		1.7
26					.55	.60	.40	.30	.15	0		1.4
27					.55	.55	.40	.30	.10	0		1.3
28					.50	.55	.40	.30	.10	0		1.2
29					.50	.55	.40	.30	.10	0		1.2
30					---	.55	.40	.30	.10	0		1.2
31		---			---	.55	.40	.30	---	0		---
TOTAL	0	0	0	0	151.80	37.25	13.50	15.25	5.75	.25	0	1142.9
MEAN	0	0	0	0	5.23	1.20	.45	.49	.19	.008	0	38.1
MAX	0	0	0	0	120	15	.55	3.8	.30	.05	0	850
MIN	0	0	0	0	0	.50	.40	.30	.10	0	0	0
AC-FT	0	0	0	0	301	74	27	30	11	.5	0	2270
CAL YR 1975	TOTAL	26.04	MEAN .071	MAX 11	MIN 0	AC-FT 52						
WTR YR 1976	TOTAL	1366.70	MEAN 3.73	MAX 850	MIN 0	AC-FT 2710						

SALTON SEA BASIN

10259300 WHITEWATER RIVER AT INDIO, CA

LOCATION.--Lat 33°44'06", long 116°14'39", in NW¼NE¼SW¼ sec.15, T.5 S., R.7 E., Riverside County, at center bridge pier on Interstate Highway 10, 2 mi (3 km) northwest of Indio.

DRAINAGE AREA.--1,073 mi² (2,779 km²).

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

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 5 ft (2 m), from topographic map.

REMARKS.--Records poor. No gage-height record Feb. 20 to Mar. 3, Apr. 5 to June 8, Sept. 10 (1300 hrs) to Sept. 13. No regulation above station. Water diverted from tributary streams for municipal supply in vicinity of Palm Springs. At times water is released at Coachella Canal crossing, 0.8 mi (1.3 km) upstream.

AVERAGE DISCHARGE.--10 years, 3.02 ft³/s (0.086 m³/s), 2,190 acre-ft/yr (2.70 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,400 ft³/s (323 m³/s), Jan. 25, 1969, gage height 14.41 ft (4.392 m), from rating curve extended above 1,300 ft³/s (36.8 m³/s) on basis of slope-area measurement at gage height 15.3 ft (4.66 m); no flow all or most of each year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 2 or 3, 1938, reached a discharge of 29,000 ft³/s (821 m³/s), on basis of slope-area measurement at site 4.5 mi (7.2 km) upstream. Flood of November 22, 1965, reached a stage of 15.3 ft (4.66 m) from floodmarks, discharge 14,100 ft³/s (399 m³/s) on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,300 ft³/s (235 m³/s) Sept. 10 (1400 hrs), gage height, 12.4 ft (3.78 m) on basis of slope-area measurement of peak flow, no other peak above base of 200 ft³/s (5.66 m³/s); no flow for most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0		0		0							0
2	0		0		0							0
3	0		0		0							0
4	0		0		0							0
5	0		0		0							0
6	0		0		0							0
7	0		0		0							0
8	0		.08		0							0
9	0		.06		.11							0
10	0		0		0							1000
11	0		0		0							1250
12	0		0		0							250
13	0		0		0							60
14	0		0		0							5.0
15	0		0		0							0
16	0		0		0							0
17	0		0		0							0
18	0		0		0							0
19	0		0		0							0
20	0		0		0							0
21	0		0		0							0
22	0		0		0							0
23	0		0		0							20
24	0		0		0							2.0
25	0		0		0							0
26	0		0		0							0
27	.02		0		0							0
28	0		0		0							0
29	0		0		0							0
30	0		0		---							0
31	0	---	0		---		---		---			---
TOTAL	.02	0	.14	0	.11	0	0	0	0	0	0	2587.0
MEAN	.0006	0	.005	0	.004	0	0	0	0	0	0	86.2
MAX	.02	0	.08	0	.11	0	0	0	0	0	0	1250
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	.04	0	.3	0	.2	0	0	0	0	0	0	5130
CAL YR 1975 TOTAL	4.40		MEAN .012	MAX	2.5	MIN 0	AC-FT	8				
WTR YR 1976 TOTAL	2587.27		MEAN 7.07	MAX	1250	MIN 0	AC-FT	5130				

10259540 WHITEWATER RIVER NEAR MECCA, CA

LOCATION.--Lat 33°31'29", long 116°04'36", in NW¼NW¼NW¼ sec.32, T.7 S., R.9 E., Riverside County, on left bank 1.6 mi (2.6 km) upstream from mouth at Salton Sea (revised), and 3.3 mi (5.3 km) south of Mecca.

DRAINAGE AREA.--1,495 mi² (3,872 km²), revised.

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 221.00 ft (67.361 m) below mean sea level (levels by Coachella County Water District). Oct. 1, 1960, to Mar. 22, 1967, at site 1.3 mi (2.1 km) downstream and Mar. 23, 1967, to July 22, 1970, at site 0.7 mi (1.1 km) downstream at different datums.

REMARKS.--Records poor. Most of the flow represents seepage and return flow from irrigated areas.

COOPERATION.--Sixty-five discharge measurements were furnished by Coachella Valley County Water District.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,500 ft³/s (70.8 m³/s), estimated, Jan. 25, 1969; minimum daily, 37 ft³/s (1.05 m³/s) Nov. 25-29, 1960.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140	140	145	132	172	154	168	182	131	128	146	130
2	147	144	137	130	172	147	168	184	138	123	155	135
3	159	145	136	136	156	155	180	165	147	134	146	151
4	157	157	135	138	159	155	180	161	144	140	145	147
5	157	145	136	128	162	155	182	170	135	138	146	141
6	160	140	137	129	173	162	169	173	134	131	150	130
7	159	140	138	130	178	166	168	200	132	113	161	140
8	159	137	125	142	188	161	168	175	126	117	170	126
9	154	135	136	149	299	156	168	180	114	123	157	122
10	152	134	136	147	212	156	169	173	119	131	150	800
11	156	131	134	150	196	162	169	173	114	136	154	900
12	156	130	133	154	191	154	170	178	109	129	159	290
13	150	135	132	152	184	155	168	178	131	130	160	230
14	145	135	131	152	174	162	165	185	132	131	164	211
15	140	138	131	151	169	162	174	188	125	144	160	205
16	140	135	130	165	160	156	181	184	107	151	157	205
17	140	130	130	152	165	162	173	186	95	157	149	205
18	140	129	129	144	150	166	168	191	106	160	147	199
19	140	126	134	212	155	160	159	193	129	147	150	191
20	140	135	134	144	161	164	162	184	140	141	161	169
21	140	145	125	142	160	157	173	177	151	140	159	154
22	140	146	125	144	161	154	175	177	149	135	155	149
23	140	147	131	149	172	157	175	174	142	147	149	206
24	150	142	132	147	156	164	175	172	144	151	135	277
25	147	145	129	136	161	162	174	161	144	146	135	176
26	144	146	119	137	151	156	169	161	138	134	131	159
27	146	151	136	140	166	164	172	156	131	123	136	173
28	140	145	135	146	164	165	175	155	132	119	141	159
29	141	147	124	156	160	164	181	154	124	126	146	156
30	149	146	129	162	---	157	182	141	124	128	152	162
31	144	---	140	166	---	156	---	134	---	140	137	---
TOTAL	4572	4201	4104	4562	5027	4926	5160	5365	3887	4193	4663	6598
MEAN	147	140	132	147	173	159	172	173	130	135	150	220
MAX	160	157	145	212	299	166	182	200	151	160	170	900
MIN	140	126	119	128	150	147	159	134	95	113	131	122
AC-FT	9070	8330	8140	9050	9970	9770	10230	10640	7710	8320	9250	13090
CAL YR 1975	TOTAL	49639	MEAN 136	MAX 180	MIN 102	AC-FT 98460						
WTR YR 1976	TOTAL	57258	MEAN 156	MAX 900	MIN 95	AC-FT 113600						

SALTON SEA BASIN

10259920 WASTEWAY NO. 1 NEAR MECCA, CA

LOCATION.--Lat 33°31'40", long 115°58'23", in NW¼SW¼SW¼ sec.29, T.7 S., R.10 E., Riverside County, on right bank of channel, 1,000 ft (300 m) upstream from mouth, 2,250 ft (686 m) downstream from State Highway 111, and 6.6 mi (10.6 km) southeast of Mecca.

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

GAGE.--Water-stage recorder. Altitude of gage is 220 ft (67.1 m) below mean sea level (from topographic map).

REMARKS.--Records poor. Discharge represents seepage and return flows from irrigated areas. At times water is wasted from Coachella Canal.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 473 ft³/s (13.4 m³/s) May 9, 1976; minimum daily, 1.4 ft³/s (0.04 m³/s) May 20, 1975.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	2.2	5.7	2.2	3.2	2.7	2.7	2.7	6.3	2.9	7.2	5.1
2	5.1	2.4	2.7	2.4	4.1	2.7	2.7	2.7	6.3	2.9	7.2	4.8
3	5.1	2.4	2.7	51	4.1	2.4	2.7	2.9	7.2	3.2	7.6	5.5
4	5.1	2.4	2.7	23	3.5	2.7	2.9	2.9	7.2	3.8	6.3	5.5
5	5.1	2.7	2.7	2.7	3.5	2.7	2.9	2.2	5.5	3.8	5.9	5.5
6	47	2.7	2.7	2.7	3.5	2.9	3.2	2.0	50	3.8	5.1	5.5
7	2.7	2.7	2.7	2.7	175	128	3.2	2.2	4.1	3.5	5.5	5.5
8	2.7	2.9	2.7	2.7	279	118	3.5	412	4.1	3.5	5.5	5.5
9	2.7	9.9	2.7	2.7	377	117	5.1	473	4.1	4.1	4.1	5.9
10	2.9	2.7	2.7	2.4	376	178	4.4	119	5.1	5.5	3.8	187
11	3.2	2.2	2.7	2.4	336	315	3.8	160	5.1	4.8	4.4	274
12	3.2	2.0	2.7	2.4	230	102	2.9	2.7	5.5	5.5	5.1	176
13	3.5	2.0	2.7	2.0	228	64	2.7	2.7	3.9	5.5	6.3	110
14	3.5	2.4	2.7	2.2	154	31	2.7	3.2	2.9	4.8	7.2	53
15	3.2	2.4	2.7	2.7	140	179	250	3.5	3.5	4.4	5.5	8.6
16	2.7	2.4	2.9	2.7	204	37	59	4.1	2.9	4.4	5.9	111
17	2.7	2.4	2.9	2.7	133	2.7	2.7	4.1	2.7	3.5	5.9	8.2
18	2.7	2.4	2.7	2.9	49	2.7	2.7	4.4	2.4	4.1	5.9	5.5
19	2.4	2.4	2.7	2.9	2.7	2.7	54	4.1	3.5	4.4	6.3	5.1
20	2.4	2.4	2.7	2.9	2.7	2.7	2.7	3.2	4.1	3.5	5.5	5.1
21	2.7	2.2	3.2	3.2	2.7	2.7	2.7	3.2	3.5	5.9	6.3	4.8
22	3.2	2.2	4.4	3.2	2.7	2.7	2.7	3.2	3.5	4.8	6.3	4.8
23	3.8	2.2	9.6	3.2	2.7	7.7	2.7	3.8	3.8	5.1	6.3	8.8
24	4.1	2.2	10	2.9	2.7	2.7	2.7	4.1	2.9	5.1	6.3	16
25	9.3	2.2	57	2.7	2.7	2.7	2.7	3.5	2.9	5.5	6.3	223
26	115	2.2	3.6	2.7	2.7	2.7	2.7	3.5	2.9	105	6.7	159
27	42	2.2	2.7	13	2.7	2.7	2.7	3.8	2.9	127	6.7	9.6
28	2.0	2.0	2.0	157	2.7	2.7	2.7	5.1	2.9	3.8	5.5	9.6
29	2.0	49	2.0	2.4	2.7	2.7	2.7	5.9	3.5	4.1	5.1	10
30	2.0	58	2.0	2.4	---	2.7	2.7	5.9	2.9	5.5	5.1	10
31	2.0	---	2.7	2.7	---	2.7	---	5.9	---	6.3	4.8	---
TOTAL	301.1	180.4	156.6	315.7	2732.6	1330.6	443.5	1261.5	168.1	360.0	181.6	1447.9
MEAN	9.71	6.01	5.05	10.2	94.2	42.9	14.8	40.7	5.60	11.6	5.86	48.3
MAX	115	58	57	157	377	315	250	473	50	127	7.6	274
MIN	2.0	2.0	2.0	2.0	2.7	2.4	2.7	2.0	2.4	2.9	3.8	4.8
AC-FT	597	358	311	626	5420	2640	880	2500	333	714	360	2870
CAL YR 1975 TOTAL	5255.0			MEAN 14.4	MAX 285	MIN 1.4	AC-FT 10420					
WTR YR 1976 TOTAL	8879.6			MEAN 24.3	MAX 473	MIN 2.0	AC-FT 17610					

10260500 DEEP CREEK NEAR HESPERIA, CA

LOCATION.--Lat 34°20'28", long 117°13'39", in NW¼NE¼SE¼ sec.18, T.3 N., R.3 W., San Bernardino County, on right bank 0.5 mi (0.8 km) upstream from confluence with West Fork Mojave River, and 7 mi (11 km) southeast of Hesperia.

DRAINAGE AREA.--134 mi² (347 km²), revised.

PERIOD OF RECORD.--October 1904 to September 1922, October 1929 to current year. Monthly discharge only prior to January 1930, published in WSP 1314.

GAGE.--Water-stage recorder. Broad-crested weir since December 1938. Altitude of gage is 3,050 ft (930 m), from topographic map. See WSP 1314 for history of change prior to Dec. 10, 1938.

REMARKS.--Records fair. Slight regulation by Lake Arrowhead, capacity, 48,000 acre-ft (59.2 hm³), used principally for recreation.

AVERAGE DISCHARGE.--65 years, 65.7 ft³/s (1.861 m³/s), 47,600 acre-ft/yr (58.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46,600 ft³/s (1,320 m³/s) Mar. 2, 1938, based on slope-area measurement of maximum flow; no flow July 17, 18, 1961.

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)	
Feb. 9	0145	3660	104	5.12	1.561	Sept. 11	0600	*5050	143	5.77	1.759
Mar. 1	1915	1020	28.9	3.54	1.079						

Minimum daily discharge, 0.53 ft³/s (0.015 m³/s) Sept. 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.79	3.4	5.5	4.9	4.8	225	36	26	7.8	1.5	1.3	.59
2	.80	3.4	5.1	4.2	4.8	245	35	26	7.3	1.3	1.5	.53
3	1.1	3.1	5.0	4.6	4.8	100	33	25	6.8	1.3	1.2	.59
4	1.2	2.8	5.0	5.8	5.0	72	36	25	6.5	1.1	.98	.85
5	1.1	3.0	5.0	5.3	14	60	36	24	6.4	1.1	.91	.66
6	1.1	3.0	4.9	5.1	25	49	30	24	5.8	.98	.85	.66
7	1.4	3.1	4.9	4.9	75	46	28	25	5.4	.98	.78	.72
8	1.5	3.1	4.9	5.1	339	47	27	23	5.5	.85	.85	1.0
9	2.0	3.1	4.9	7.1	1480	44	27	20	5.8	.78	.85	.98
10	1.9	3.1	4.8	6.4	243	44	24	19	5.7	.78	.78	8.1
11	1.9	3.1	4.8	5.3	102	40	24	19	6.7	.72	.66	1300
12	2.0	3.1	4.8	4.8	69	42	27	18	6.4	.72	.66	117
13	2.4	3.1	4.8	4.9	55	41	29	16	5.8	.72	.72	41
14	2.6	3.1	4.8	4.8	51	45	31	15	4.6	.82	.66	22
15	2.5	3.1	4.8	4.8	47	50	29	15	4.3	.89	.78	16
16	2.3	3.1	4.8	4.8	38	56	35	14	4.0	1.0	.78	11
17	2.4	3.1	4.6	4.8	33	59	30	14	3.3	1.1	.78	10
18	2.2	3.1	5.1	4.9	36	70	32	12	3.2	1.4	.72	9.3
19	2.2	3.1	5.3	4.9	42	64	39	11	3.2	1.4	.78	7.1
20	2.0	3.1	5.1	4.8	38	57	44	12	3.4	1.4	.98	6.0
21	2.0	3.2	5.3	4.8	31	53	45	11	2.6	1.3	1.0	5.3
22	2.0	3.2	5.3	4.7	28	55	48	11	2.8	1.0	.91	4.9
23	2.0	3.2	5.1	4.7	28	55	47	11	2.7	1.2	.85	4.8
24	2.2	3.2	5.1	4.8	27	58	45	11	2.6	1.1	.78	15
25	2.4	3.2	4.9	4.8	27	64	45	10	2.2	1.1	.85	13
26	2.7	3.2	5.3	4.7	29	59	41	9.8	2.2	1.2	.78	9.4
27	2.6	3.5	5.1	4.6	33	52	36	9.4	1.7	1.7	.72	6.2
28	2.6	6.3	4.9	4.5	35	46	33	9.6	1.6	3.1	.72	5.6
29	2.7	8.2	4.9	4.6	40	40	30	9.7	1.5	2.6	.72	5.1
30	2.7	7.2	4.9	4.7	---	36	27	9.2	1.6	1.5	.66	4.9
31	2.7	---	5.1	4.8	---	34	---	8.7	---	1.5	.66	---
TOTAL	61.99	106.5	154.8	153.9	2984.4	2008	1029	493.4	129.4	38.14	26.17	1628.28
MEAN	2.00	3.55	4.99	4.96	103	64.8	34.3	15.9	4.31	1.23	.84	54.3
MAX	2.7	8.2	5.5	7.1	1480	245	48	26	7.8	3.1	1.5	1300
MIN	.79	2.8	4.6	4.2	4.8	34	24	8.7	1.5	.72	.66	.53
AC-FT	123	211	307	305	5920	3980	2040	979	257	76	52	3230
CAL YR 1975 TOTAL		5756.38		MEAN 15.8	MAX 207	MIN .40	AC-FT 11420					
WTR YR 1976 TOTAL		8813.98		MEAN 24.1	MAX 1480	MIN .53	AC-FT 17480					

MOJAVE RIVER BASIN

10261000 WEST FORK MOJAVE RIVER NEAR HESPERIA, CA

LOCATION.--Lat 34°20'20", long 117°15'25", in NW¼NW¼ sec.24, T.3 N., R.4 W., San Bernardino County, on left bank on upstream wingwall of concrete double box culvert on Arrowhead Lake Road, 0.1 mi (0.2 km) northeast of junction with Highway 174, 4.5 mi (7.2 km) downstream from Cedar Springs Dam, and 6.5 mi (10.5 km) southeast of Hesperia.

DRAINAGE AREA.--70.3 mi² (182 km²).

PERIOD OF RECORD.--October 1904 to September 1922, October 1929 to September 1971, October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,040 ft (927 m), from topographic map. Prior to June 30, 1922, nonrecording gage on water-stage recorder 1.6 mi (2.6 km) downstream at different datum. June 30, 1922 to September 1971, water-stage recorder 1.5 mi (2.4 km) downstream at different datum. June 30, 1942 to Apr. 14, 1966, at datum 2.00 ft (0.61 m) higher than datum then in use.

REMARKS.--Records fair. Regulation upstream at Cedar Springs Dam since 1972.

AVERAGE DISCHARGE.--60 years (water years 1905-22, 1930-71), 39.4 ft³/s (102 m³/s), 28,550 acre-ft/yr (35.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,100 ft³/s (739 m³/s) Mar. 2, 1938, by slope-area measurement of maximum flow; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,510 ft³/s (42.8 m³/s) Feb. 9, gage height, 5.41 ft (1.649 m); no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	48	8.2	3.9				0
2					0	98	7.8	2.7				0
3					0	27	8.2	1.7				0
4					0	21	12	4.1				0
5					0	13	11	3.7				0
6					51	12	8.6	5.0				0
7					103	14	3.7	5.9				0
8					205	13	3.4	5.3				0
9					886	12	3.0	4.7				0
10					174	14	2.6	1.5				3.9
11					144	12	3.2	0				92
12					107	11	3.4	0				11
13					57	12	3.7	0				5.0
14					51	11	3.2	0				3.5
15					47	12	1.6	0				3.9
16					42	14	3.3	0				18
17					47	14	.06	0				6.0
18					31	12	0	0				3.0
19					33	13	0	0				0
20					37	13	0	0				0
21					31	13	1.5	0				0
22					35	15	4.7	0				0
23					33	16	5.3	0				0
24					28	16	5.3	0				0
25					25	15	5.0	0				0
26					26	14	4.1	0				0
27					27	15	4.7	0				0
28					22	14	4.7	0				0
29					21	13	4.4	0				0
30					---	11	4.4	0				0
31		---			---	11	---	0	---			---
TOTAL	0	0	0	0	2263	549	131.06	38.5	0	0	0	146.3
MEAN	0	0	0	0	78.0	17.7	4.37	1.24	0	0	0	4.88
MAX	0	0	0	0	886	98	12	5.9	0	0	0	92
MIN	0	0	0	0	0	11	0	0	0	0	0	0
AC-FT	0	0	0	0	4490	1090	260	76	0	0	0	290
CAL YR 1975	TOTAL	2319.04	MEAN 6.35	MAX 170	MIN 0	AC-FT 4600						
WTR YR 1976	TOTAL	3127.86	MEAN 8.55	MAX 886	MIN 0	AC-FT 6200						

MOJAVE RIVER BASIN

10261100 MOJAVE RIVER BELOW FORKS RESERVOIR, NEAR HESPERIA, CA

WATER-QUALITY RECORDS

LOCATION.--Lat 34°20'38", long 117°14'15", in SW¼NE¼SW¼ sec.18, T.3 N., R.3 W., San Bernardino County.

DRAINAGE AREA.--211 mi² (546 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: October 1966 to September 1968, water years 1969-71, 1974 to current year.

COOPERATION.--Chemical analyses were furnished by California Department of Water Resources, discharge furnished by Corps of Engineers.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)
NOV 19...	1400	42	410	7.6	8.5	2	11.0	78	0
FEB 04...	0930	69	290	7.7	9.0	3	10.5	81	0
APR 21...	0945	134	150	7.6	13.0	3	9.8	44	0
JUL 28...	1220	--	420	8.1	25.5	0	7.2	94	0

DATE	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)
NOV 19...	26	3.2	48	56	2.4	3.9	101	0	83
FEB 04...	27	3.3	36	48	1.7	2.7	112	0	92
APR 21...	16	1.1	14	40	.9	1.2	63	0	52
JUL 28...	30	4.5	57	56	2.6	3.1	133	0	109

DATE	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED BORON (B) (UG/L)
NOV 19...	4.1	56	18	2.5	265	.36	30.1	2.7	160
FEB 04...	3.6	39	14	2.3	186	.25	34.7	1.4	50
APR 21...	2.5	84	9.6	.6	82	.11	29.7	.29	110
JUL 28...	1.7	86	13	3.4	209	.28	--	.04	260

MOJAVE RIVER BASIN

10261500 MOJAVE RIVER AT LOWER NARROWS, NEAR VICTORVILLE, CA
(National stream-quality accounting network station)

LOCATION.--Lat 34°34'23", long 117°19'11", in SW¼SW¼SE¼ sec.29, T.6 N., R.4 W., San Bernardino County, on left bank 650 ft (198 m) upstream from bridge on county road, formerly U.S. Highway 66, 0.6 mi (1.0 km) downstream from Atchison, Topeka, and Santa Fe Railway bridge, 3 mi (5 km) northwest of Victorville, and 33 mi (53 km) downstream from Silverwood Lake.

DRAINAGE AREA.--513 mi² (1,329 km²), revised.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1899 to September 1906, October 1930 to current year. Monthly discharge only for January to September 1906, October, November 1930, published in WSP 1314. Prior to October 1936, published as "at Victorville" and as "near Victorville" in 1937.

GAGE.--Water-stage recorder. Datum of gage is 2,643.01 ft (805.589 m) above mean sea level. See WSP 1314 for history of gage changes prior to Mar. 28, 1938. Mar. 28, 1938, to Apr. 14, 1966, at site 350 ft (107 m) upstream at datum 5.00 ft (1.52 m) higher; Apr. 14, 1966, to July 17, 1969, at site 350 ft (107 m) upstream at datum 3.00 ft (0.91 m) higher.

REMARKS.--Records fair, except for period of no gage-height record Aug. 6 to Sept. 14 which are poor. Regulation by Lake Arrowhead, capacity, 48,000 acre-ft (59.2 hm³) used principally for recreation, Silverwood Lake, capacity, 78,000 acre-ft (96.2 hm³) used for the storage and distribution of imported water and recreation, and by Mojave Forks Reservoir since June 1970, capacity, 89,700 acre-ft (111 hm³) with ungated opening, capacity, 23,500 ft³/s (666 m³/s). Since 1970 effluent from Mojave State Fish Hatchery diverted to Spring Valley Lake. Diversions and pumping for irrigation of about 5,000 acres (20.2 km²) above station.

AVERAGE DISCHARGE.--53 years (water years 1900-06, 1931-76), 71.6 ft³/s (2.028 m³/s), 51,870 acre-ft/yr (64.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 70,600 ft³/s (2,000 m³/s) Mar. 2, 1938, gage height, 23.7 ft (7.22 m), present datum, from rating curve extended above 10,000 ft³/s (283 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 3.4 ft³/s (0.096 m³/s) July 25, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 325 ft³/s (9.20 m³/s) Sept. 10, gage height, 3.27 ft (0.997 m); minimum daily, 11 ft³/s (0.31 m³/s) Oct. 2-4.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	19	24	29	29	44	34	27	21	19	18	19
2	11	19	25	33	29	42	34	26	23	21	19	19
3	11	18	25	29	30	45	34	27	23	20	21	19
4	11	19	27	26	37	39	34	27	21	19	23	19
5	12	20	27	25	30	38	32	29	23	21	24	19
6	13	19	25	26	37	37	34	29	21	23	23	19
7	13	19	25	26	42	37	32	30	21	24	22	19
8	14	19	24	26	66	37	32	29	20	19	21	19
9	15	20	25	30	124	35	32	27	21	20	19	19
10	16	19	25	32	179	37	32	26	23	23	19	200
11	16	19	25	35	56	35	35	29	23	23	19	56
12	16	20	25	34	50	35	32	24	23	20	19	38
13	17	20	26	29	47	35	34	24	20	23	19	36
14	17	21	26	29	49	34	32	24	18	24	19	35
15	17	21	25	27	47	34	37	24	17	23	19	35
16	16	23	25	27	47	34	38	24	17	21	19	38
17	16	23	25	27	45	34	37	23	17	20	19	38
18	17	21	25	27	44	32	35	24	15	19	19	38
19	17	21	25	26	42	34	37	25	15	19	19	39
20	17	23	26	26	41	34	32	25	14	20	19	39
21	16	23	25	26	39	35	31	24	14	19	19	39
22	16	24	32	26	39	35	31	23	14	19	19	39
23	17	24	30	26	42	34	30	23	15	21	19	39
24	18	24	29	27	42	32	31	23	17	21	19	51
25	18	23	29	27	38	32	31	23	17	23	19	45
26	17	23	30	27	41	32	32	21	18	21	19	56
27	19	21	30	31	38	32	30	21	18	21	19	56
28	19	23	30	30	39	34	29	21	18	19	19	56
29	18	23	29	30	41	34	29	23	19	18	19	54
30	18	24	30	30	---	34	27	23	18	18	19	54
31	20	---	29	29	---	34	---	23	---	19	19	---
TOTAL	490	635	828	878	1430	1100	980	771	564	640	608	1252
MEAN	15.8	21.2	26.7	28.3	49.3	35.5	32.7	24.9	18.8	20.6	19.6	41.7
MAX	20	24	32	35	179	45	38	30	23	24	24	200
MIN	11	18	24	25	29	32	27	21	14	18	18	19
AC-FT	972	1260	1640	1740	2840	2180	1940	1530	1120	1270	1210	2480
CAL YR 1975	TOTAL	7970.5	MEAN 21.8	MAX 47	MIN	3.4	AC-FT 15810					
WTR YR 1976	TOTAL	10176.0	MEAN 27.8	MAX 200	MIN	11	AC-FT 20180					

10261500 MOJAVE RIVER AT LOWER NARROWS, NEAR VICTORVILLE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967 to current year.

CHEMICAL ANALYSES: Water years 1967 to current year; water years 1969-74 (partial-record station).

WATER TEMPERATURES: March 1962 to water year 1965, June 1975 to current year.

SEDIMENT RECORDS: Water year 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1975 to current year.

WATER TEMPERATURES: March 1962 to September 1965, June 1975 to current year.

INSTRUMENTATION.--Specific-conductance recorder since June 1965. Temperature recorder from March 1962 to September 1965 and since June 1975.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 726 micromhos Jan. 23, 1976; minimum recorded, 396 micromhos Mar. 3, 1976.

WATER TEMPERATURES: Maximum, 34.5°C July 23, Aug. 14, 1962; minimum, 3.0°C Jan. 2, 1976.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 726 micromhos Jan. 23; minimum recorded, 396 micromhos Mar. 3.

WATER TEMPERATURES: Maximum recorded, 31.0°C June 18 and July 21; minimum recorded, 3.0°C Jan. 2.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)
OCT 31...	1030	11	595	8.1	17.8	353	349	.48	10.5
NOV 19...	A 1130	20	610	7.8	13.0	389	--	.53	21.0
26...	1055	23	590	8.2	12.8	349	337	.47	21.7
DEC 30...	1100	30	575	7.9	14.8	336	334	.46	27.2
JAN 29...	1115	29	565	8.1	14.6	340	325	.46	26.6
FEB 04...	A 1130	33	475	7.7	13.0	322	--	.44	28.7
24...	1045	42	535	8.3	16.0	316	317	.43	35.8
MAR 25...	1040	31	570	7.8	16.2	317	320	.43	26.5
APR 21...	A 1200	33	485	7.6	22.0	292	--	.40	26.0
29...	1125	32	525	8.0	21.8	306	303	.42	26.4
MAY 27...	1050	23	523	8.1	24.2	320	--	.44	19.9
JUN 28...	1130	18	520	7.8	28.5	--	--	--	--
JUL 13...	1050	24	550	8.1	26.5	322	319	.44	20.9
28...	A 1430	18	500	7.7	28.5	246	--	.33	12.0
AUG 19...	1315	19	460	7.9	24.5	311	323	.42	16.3
SEP 14...	1145	35	470	8.2	24.5	318	303	.43	30.1

10261500 MOJAVE RIVER AT LOWER NARROWS, NEAR VICTORVILLE, CA--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)
OCT											
31...	1030	11	10	--	30	60	160	0	49	9.6	58
NOV											
19... A	1130	20	10	8.6	--	--	169	0	50	11	54
26...	1055	23	10	--	84	37	170	0	48	11	53
DEC											
30...	1100	30	9	--	82	810	170	0	51	11	52
JAN											
29...	1115	29	10	--	86	23	160	0	47	11	50
FEB											
04... A	1130	33	44	8.3	--	--	166	0	50	10	49
24...	1045	42	10	--	83	816	160	0	50	9.6	46
MAR											
25...	1040	31	6	--	0	818	160	0	47	9.5	47
APR											
21... A	1200	33	4	6.1	--	--	156	0	47	9.1	48
29...	1125	32	5	--	89	38	140	0	41	9.5	46
MAY											
27...	1050	23	--	--	24	--	160	--	49	9.8	50
JUN											
28...	1130	18	2	--	48	200	150	--	44	9.6	48
JUL											
13...	1050	24	1	--	818	>300	160	0	47	9.7	50
28... A	1430	18	2	4.6	--	--	143	0	43	8.6	51
AUG											
19...	1315	19	2	--	811	8286	140	0	44	8.4	53
SEP											
14...	1145	35	15	--	>2000	8700	150	0	44	9.2	45

DATE	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)
OCT											
31...	42	2.0	8.4	217	0	178	2.8	56	38	.5	22
NOV											
19... A	40	1.8	7.0	212	0	174	5.4	54	35	.5	--
26...	40	1.8	8.0	216	0	177	2.2	52	34	.5	24
DEC											
30...	38	1.7	6.5	212	0	174	4.3	53	33	.3	23
JAN											
29...	39	1.7	5.5	208	0	171	2.6	54	32	.5	22
FEB											
04... A	38	1.7	5.9	207	0	170	6.6	54	30	.6	--
24...	37	1.6	5.2	202	0	166	1.6	53	30	.6	23
MAR											
25...	38	1.6	6.6	205	0	168	5.2	54	32	.4	22
APR											
21... A	39	1.7	5.9	196	0	161	7.9	50	31	.6	--
29...	40	1.7	5.8	198	0	162	3.2	52	29	.5	22
MAY											
27...	39	1.7	6.0	--	--	--	--	50	31	--	25
JUN											
28...	40	1.7	6.0	--	--	--	--	120	33	.6	26
JUL											
13...	40	1.7	5.8	200	0	164	2.5	49	33	.5	25
28... A	42	1.9	5.9	196	0	161	6.3	51	32	.7	--
AUG											
19...	43	1.9	5.9	196	0	161	3.9	56	33	.5	26
SEP											
14...	39	1.6	5.4	190	0	156	1.9	52	28	.5	25

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

10261500 MOJAVE RIVER AT LOWER NARROWS, NEAR VICTORVILLE, CA--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (P04) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)
OCT 31...	--	.92	2.4	3.3	15	.55	--	--	--	4400
NOV 19... A	2.5	--	--	--	--	--	.36	1.1	170	--
26...	--	1.5	1.6	3.1	14	.42	--	--	--	1500
DEC 30...	--	1.5	1.9	3.4	15	.36	--	--	--	490
JAN 29...	--	1.6	1.2	2.8	12	.27	--	--	--	950
FEB 04... A	1.8	--	--	--	--	--	.21	.64	170	--
24...	--	1.4	1.2	2.6	12	.30	--	--	--	610
MAR 25...	--	2.3	.24	2.5	11	.33	--	--	--	2300
APR 21... A	1.8	--	--	--	--	--	.25	.77	120	--
29...	--	1.5	.59	2.1	9.3	.20	--	--	--	1600
MAY 27...	--	1.8	.25	2.0	9.1	.28	--	--	--	2700
JUN 28...	--	1.5	.20	1.7	7.5	.41	--	--	--	2500
JUL 13...	--	1.5	.17	1.7	7.4	.33	--	--	--	5300
28... A	1.2	--	--	--	--	--	.39	1.2	200	--
AUG 19...	--	1.2	.34	1.5	6.8	.30	--	--	--	0
SEP 14...	--	1.7	1.1	2.8	12	.41	--	--	--	85

10261500 MOJAVE RIVER AT LOWER NARROWS, NEAR VICTORVILLE, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY....GENUS.....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
OCT 31	1030	CHLOROPHYTA .CHLOROPHYCEAE ..VOLVOCALES ...CHLAMYDOMONADACEAE....CHLAMYDOMONAS	GREEN ALGAE	110	3
		CHRYSTOPHYTA .BACILLARIOPHYCEAE ..PENNALES ...ACHNANTHACEAE....ACHNANTHES ...NAVICULACEAE # ...NAVICULA ...NITZSCHIACEAE # ...NITZSCHIA	DIATOMS PENNATE NAVICULOID	560 2,000 1,000	13 46 23
		CYANOPHYTA .MYXOPHYCEAE ..OSCILLATORIALES ...OSCILLATORIA # ...OSCILLATORIA	BLUE-GREEN ALGAE FILAMENTOUS	680	15
		TOTAL PHYTOPLANKTON		4,400	
NOV 26	1055	CHRYSTOPHYTA .BACILLARIOPHYCEAE ..PENNALES ...ACHNANTHACEAE....ACHNANTHES ...COCCONEIS ...CYMBELLACEAE....CYMBELLA * ...RHOPALODIA ...GOMPHONEMACEAE * ...GOMPHONEMA ...NAVICULACEAE ...NAVICULA ...NITZSCHIACEAE # ...NITZSCHIA	DIATOMS PENNATE NAVICULOID	160 39 39 160 1,100	11 3 3 0 0 11 73
		TOTAL PHYTOPLANKTON		1,500	
DEC 30	1100	CHLOROPHYTA .CHLOROPHYCEAE ..CHLOROCOCCALES ...SCENEDESMACEAE * ...SCENEDESMUS	GREEN ALGAE		0
		CHRYSTOPHYTA .BACILLARIOPHYCEAE ..CENTRALES ...COSCIDISCACEAE ...CYCLOTELLA ..PENNALES ...ACHNANTHACEAE * ...ACHNANTHES ...COCCONEIS ...CYMBELLACEAE * ...AMPHORA ...CYMBELLA ...DIATOMACEAE * ...DIATOMA ...FRAGILARIACEAE * ...FRAGILARIA ...SYNEDRA ...NAVICULACEAE # ...NAVICULA ...NITZSCHIACEAE * ...DENTICULA # ...NITZSCHIA	DIATOMS CENTRIC PENNATE NAVICULOID	38 38 19 57 110 230	8 8 4 0 0 12 23 46
		TOTAL PHYTOPLANKTON		490	

See footnotes at end of table.

10261500 MOJAVE RIVER AT LOWER NARROWS, NEAR VICTORVILLE, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY....GENUS.....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
JAN 29	1115	CHLOROPHYTA ..CHLOROPHYCEAE ...CHLOROCOCCALES ...SCENEDESMACEAE....SCENEDESMUS	GREEN ALGAE	45	5
		CHRYSTOPHYTA ..BACILLARIOPHYCEAE ...CENTRALES ...COSCONODISCAEAE ...CYCLOTELLA ...PENNALES ...ACHNANTHACEAE	DIATOMS CENTRIC PENNATE	23	2
		# ...ACHNANTHES ...COCCONEIS ...CYMBELLACEAE ...CYMBELLA ...NAVICULACEAE	NAVICULOID	270 23 23	29 2 2
		# ...NAVICULA ...NITZSCHIAEAE ...NITZSCHIA		430 140	45 14
		TOTAL PHYTOPLANKTON		950	
FEB 24	1045	CHRYSTOPHYTA ..BACILLARIOPHYCEAE ...CENTRALES ...COSCONODISCAEAE ...CYCLOTELLA ...PENNALES ...ACHNANTHACEAE	DIATOMS CENTRIC PENNATE	12	2
		# ...ACHNANTHES ...COCCONEIS ...CYMBELLACEAE ...AMPHORA ...CYMBELLA ...DIATOMACEAE ...DIATOMA ...GOMPHONEMACEAE ...GOMPHONEMA ...NAVICULACEAE	NAVICULOID	120 12 12 12 12 25 12	20 2 2 2 2 4 2
		# ...NAVICULA ...PINNULARIA ...NITZSCHIAEAE ...DENTICULA ...HANTZSCHIA # ...NITZSCHIA		160 50 12 12 160	27 8 2 2 27
		TOTAL PHYTOPLANKTON		610	

See footnotes at end of table.

10261500 MOJAVE RIVER AT LOWER NARROWS, NEAR VICTORVILLE, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
		.CLASS ..ORDER ...FAMILY....GENUS.....SPECIES			
MAR 25	1040	CHLOROPHYTA	GREEN ALGAE		
		.CHLOROPHYCEAE			
		..CHLOROCOCCALES			
		...OOCYSTACEAE			
		....ANKISTRODESMUS		20	1
		CHRYSTOPHYTA			
		.BACILLARIOPHYCEAE	DIATOMS CENTRIC		
		..CENTRALES			
		...COSCINODISCACEAE			
		....CYCLOTELLA		120	5
		.....MELOSIRA		180	8
		..PENNALES	PENNATE		
		...ACHNANTHACEAE			
		....ACHNANTHES		140	6
		...CYMBELLACEAE			
		....CYMBELLA		39	2
		.....RHOPALODIA		20	1
		...FRAGILARIACEAE			
		....FRAGILARIA		78	3
		.....SYNEDRA			0
* ..GOMPHONEMATACEAE					
....GOMPHONEMA		39	2		
..NAVICULACEAE	NAVICULOID				
....NAVICULA		240	10		
.....PINNULARIA		20	1		
...NITZSCHIACEAE					
....NITZSCHIA		250	11		
CYANOPHYTA	BLUE-GREEN ALGAE				
.MYXOPHYCEAE					
..CHROOCOCCALES	COCCOID				
...CHROOCOCCACEAE					
....ANACYSTIS					
#A.INCERTA		1,200	51		
TOTAL PHYTOPLANKTON				2,300	
APR 29	1125	CHLOROPHYTA	GREEN ALGAE		
		.CHLOROPHYCEAE			
		..CHLOROCOCCALES			
		...SCENEDESMACEAE			
		....SCENEDESMUS		210	13
		CHRYSTOPHYTA			
		.BACILLARIOPHYCEAE	DIATOMS CENTRIC		
		..CENTRALES			
		...COSCINODISCACEAE			
		....CYCLOTELLA		110	7
		..PENNALES	PENNATE		
		...ACHNANTHACEAE			
		....ACHNANTHES		180	11
		...CYMBELLACEAE			
		* ..AMPHORA			0
		* ..DIATOMACEAE			
		* ..DIATOMA			0
		* ..FRAGILARIACEAE			
		* ..FRAGILARIA			0
		....SYNEDRA		35	2
..NAVICULACEAE	NAVICULOID				
# ..NAVICULA		780	48		
# ..NITZSCHIACEAE					
# ..NITZSCHIA		320	20		
TOTAL PHYTOPLANKTON				1,600	

See footnotes at end of table.

10261500 MOJAVE RIVER AT LOWER NARROWS, NEAR VICTORVILLE, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM ..CLASS ...ORDER ...FAMILY ...GENUS....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
MAY 27	1050	CHLOROPHYTA ..CHLOROPHYCEAE ...CHLOROCOCCALES ...SCENEDESMACEAE #SCENEDESMUS	GREEN ALGAE	760	28
		CHRYSTOPHYTA ..BACILLARIOPHYCEAE ...CENTRALES ...COSGINODISCACEAE ...CYCLOTELLA ...MELOSIRA ..PENNALES ...ACHNANTHACEAE #ACHNANTHES ...CYMBELLACEAE ...CYMBELLA ...NAVICULACEAE #NAVICULA ...NITZSCHACEAE ...DENTICULA ...NITZSCHIA	DIATOMS CENTRIC PENNATE NAVICULOID	98 49 420 25 1,000 25 340	4 2 15 1 37 1 13
		TOTAL PHYTOPLANKTON		2,700	
JUNE 28	1130	CHRYSTOPHYTA ..BACILLARIOPHYCEAE ...CENTRALES ...COSGINODISCACEAE ...CYCLOTELLA ..PENNALES ...ACHNANTHACEAE #ACHNANTHES ...NAVICULACEAE #NAVICULA ...NITZSCHACEAE ...NITZSCHIA	DIATOMS CENTRIC PENNATE NAVICULOID	77 540 1,800 150	3 21 70 6
		TOTAL PHYTOPLANKTON		2,500	

See footnotes at end of table.

10261500 MOJAVE RIVER AT LOWER NARROWS, NEAR VICTORVILLE, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
		.CLASS ..ORDER ...FAMILY....GENUS.....SPECIES			
JULY 13	1050	CHLOROPHYTA	GREEN ALGAE		
		.CHLOROPHYCEAE			
		..CHLOROCOCCALES			
		...COELASTRACEAE			
		....COELASTRUM		350	7
		...HYDRODICTYACEAE			
		....HYDRODICTYON		400	8
		...PEDIASTRUM		760	14
		...SCENEDESMACEAE			
		....SCENEDESMUS		560	10
		CHRYSTOPHYTA			
		.BACILLARIOPHYCEAE	DIATOMS		
		..PENNALES	PENNATE		
		...ACHNANTHACEAE			
		....ACHNANTHES		400	8
...FRAGILARIACEAE					
....SYNEDRA		51	1		
...NAVICULACEAE	NAVICULOID				
....MASTOGLIOIA			0		
* # ...NAVICULA		810	15		
...NITZSCHIA					
....NITZSCHIA		400	8		
CYANOPHYTA	BLUE-GREEN ALGAE				
.MYXOPHYCEAE					
..OSCILLATORIALES	FILAMENTOUS				
...OSCILLATORIA					
# ...OSCILLATORIA		1,600	30		
TOTAL PHYTOPLANKTON				5,300	
SEP 14	1145	CHRYSTOPHYTA			
		.BACILLARIOPHYCEAE	DIATOMS		
		..PENNALES	PENNATE		
		...GOMPHONEMATA			
		....GOMPHONEMA		11	13
		...NAVICULACEAE	NAVICULOID		
		# ...NAVICULA		51	60
...NITZSCHIA					
# ...NITZSCHIA		23	27		
TOTAL PHYTOPLANKTON				85	

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

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll a (mg/m ²)	Chlorophyll b (mg/m ²)	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight				
Sept. 26	35	19	15	3.9	0.6	830	Polyethylene strip
Feb. 24	29	32	27	13	0.4	430	Polyethylen strip

10261500 MOJAVE RIVER AT LOWER NARROWS, NEAR VICTORVILLE, CA--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDEDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDEDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDEDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDEDED COBALT (CO) (UG/L)
OCT 31...	1030	6	1	5	<10	<9	1	80	70	10	<50	<48
JAN 29...	1115	6	2	4	<10	<9	1	0	0	0	<50	<49
APR 29...	1125	3	0	3	<10	<8	2	0	0	0	<50	<50
JUL 13...	1050	2	0	3	<10	<9	1	0	0	0	<50	<50

DATE	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDEDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDEDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDEDED MAN-GANESE (MN) (UG/L)
OCT 31...	2	20	16	4	1500	30	<100	<97	3	100	50
JAN 29...	1	<10	<7	3	870	60	<100	<98	2	120	80
APR 29...	0	20	16	4	900	20	<100	<94	6	280	260
JUL 13...	0	10	8	2	410	90	<100	<99	1	60	20

DATE	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDEDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDEDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDEDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 31...	50	.0	.0	.0	0	0	0	7	7	0	13
JAN 29...	40	.0	.0	.0	0	0	0	50	40	10	3.6
APR 29...	20	.2	.2	.0	0	0	0	40	30	10	2.1
JUL 13...	40	.0	.0	.0	0	0	0	20	0	30	3.3

10261500 MOJAVE RIVER AT LOWER NARROWS, NEAR VICTORVILLE, CA--Continued

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	590	576	584	590	572	580	656	598	631	580	550	566
2	592	578	585	584	570	576	658	580	629	582	554	565
3	590	580	585	584	570	576	668	600	643	584	558	570
4	592	580	586	590	568	577	672	608	643	584	554	566
5	592	578	586	586	572	578	670	590	640	584	542	564
6	592	582	587	580	568	574	682	604	653	580	548	563
7	598	582	587	586	570	576	684	600	657	578	540	564
8	594	576	586	586	570	578	682	608	653	---	---	---
9	596	578	586	584	570	577	670	606	645	570	526	555
10	600	582	589	584	568	575	662	584	629	568	526	549
11	590	576	584	586	570	578	644	584	620	548	512	531
12	590	578	584	586	572	578	644	600	620	544	496	528
13	592	574	582	582	570	575	626	576	603	544	504	526
14	592	574	583	578	566	573	610	550	591	546	482	524
15	590	576	583	582	548	567	604	554	582	544	460	513
16	590	578	585	586	540	568	608	546	579	532	430	492
17	596	578	586	608	578	592	584	520	552	544	434	501
18	592	580	586	628	564	597	566	520	549	554	460	524
19	602	580	588	610	560	581	566	520	544	610	516	558
20	602	582	591	634	548	589	558	510	540	650	538	602
21	606	584	593	640	532	589	556	472	527	666	564	632
22	612	586	599	644	590	626	560	480	529	706	596	660
23	606	580	596	606	554	583	588	522	563	726	634	689
24	606	584	597	692	562	643	588	544	572	---	---	---
25	608	576	596	708	616	677	584	542	566	---	---	---
26	608	574	592	692	514	600	582	546	569	---	---	---
27	606	572	592	618	554	584	582	548	570	574	516	541
28	612	572	597	642	586	616	580	548	566	566	516	546
29	612	572	599	646	600	628	576	538	565	560	520	552
30	620	568	604	656	596	634	582	544	564	558	520	548
31	620	568	603	---	---	---	584	556	573	562	532	548
MONTH	620	568	590	708	514	592	684	472	592	726	430	558

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	560	522	542	528	480	506	554	510	529	544	520	532
2	560	516	543	538	460	512	556	514	538	542	528	537
3	554	518	543	520	396	498	560	524	546	550	534	541
4	546	504	531	530	500	519	556	526	544	558	524	539
5	552	516	537	540	510	528	550	524	540	568	524	542
6	556	496	530	540	514	530	546	514	535	584	558	570
7	546	458	522	538	512	528	552	516	537	586	568	576
8	---	---	---	534	500	523	548	514	533	582	562	572
9	---	---	---	536	508	522	550	518	534	566	524	542
10	---	---	---	526	502	516	550	510	534	548	512	530
11	---	---	---	526	498	517	544	508	524	540	516	530
12	---	---	---	530	502	519	546	502	525	540	514	530
13	---	---	---	532	502	523	560	524	543	546	506	531
14	---	---	---	532	502	520	558	524	543	546	522	538
15	---	---	---	530	490	516	548	508	534	560	528	544
16	---	---	---	528	496	511	524	482	506	554	534	547
17	---	---	---	536	506	520	530	488	507	556	528	545
18	---	---	---	540	498	520	574	492	530	558	532	548
19	---	---	---	538	508	526	570	508	541	558	528	549
20	---	---	---	534	508	520	550	500	530	562	536	552
21	---	---	---	532	500	517	548	516	529	566	534	553
22	---	---	---	534	496	515	556	512	536	562	534	553
23	---	---	---	576	504	543	548	506	527	554	526	545
24	---	---	---	578	530	562	536	496	519	548	516	536
25	542	512	529	578	514	549	536	494	521	538	522	531
26	536	506	523	568	510	529	534	496	520	546	516	533
27	540	498	523	542	516	531	534	492	514	550	518	543
28	536	502	525	542	502	528	538	490	514	536	502	529
29	536	500	520	530	500	517	---	---	---	542	500	529
30	---	---	---	536	508	524	---	---	---	542	512	528
31	---	---	---	530	500	517	---	---	---	544	500	531
MONTH	560	458	531	578	396	523	574	482	530	586	500	542

10261500 MOJAVE RIVER AT LOWER NARROWS, NEAR VICTORVILLE, CA--Continued

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

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	546	518	537	---	---	---	534	438	478	---	---	---
2	550	518	537	---	---	---	504	436	481	---	---	---
3	542	526	536	---	---	---	500	414	468	---	---	---
4	540	516	532	---	---	---	524	422	478	---	---	---
5	540	514	533	---	---	---	556	460	505	---	---	---
6	544	500	531	---	---	---	546	462	507	---	---	---
7	546	512	534	---	---	---	528	468	498	---	---	---
8	548	512	533	---	---	---	522	440	492	---	---	---
9	546	502	529	---	---	---	514	416	483	---	---	---
10	546	504	527	---	---	---	518	430	488	---	---	---
11	544	504	526	---	---	---	514	438	485	---	---	---
12	542	502	527	---	---	---	512	434	482	---	---	---
13	540	512	531	---	---	---	506	446	481	---	---	---
14	544	510	532	---	---	---	514	430	482	---	---	---
15	540	510	533	---	---	---	512	454	484	---	---	---
16	538	518	529	---	---	---	498	416	472	---	---	---
17	540	510	527	---	---	---	498	446	479	---	---	---
18	538	510	526	---	---	---	514	432	476	---	---	---
19	550	510	527	---	---	---	502	462	481	---	---	---
20	544	514	531	---	---	---	518	462	492	---	---	---
21	552	510	537	---	---	---	510	466	494	---	---	---
22	544	524	537	---	---	---	500	462	484	---	---	---
23	---	---	---	---	---	---	496	456	482	---	---	---
24	---	---	---	558	462	507	512	462	488	---	---	---
25	---	---	---	522	458	490	488	450	469	---	---	---
26	---	---	---	510	474	499	482	450	464	---	---	---
27	---	---	---	500	466	485	---	---	---	---	---	---
28	---	---	---	502	464	490	---	---	---	---	---	---
29	---	---	---	506	438	482	---	---	---	---	---	---
30	---	---	---	506	452	486	---	---	---	---	---	---
31	---	---	---	596	448	511	---	---	---	---	---	---
MONTH	552	500	531	596	438	494	556	414	484	---	---	---
YEAR	726	396	548	---	---	---	---	---	---	---	---	---

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	27.5	15.0	19.5	---	---	---	13.5	7.5	10.0	11.5	3.5	6.5
2	26.5	15.0	19.5	---	---	---	14.5	8.5	11.0	12.5	3.0	7.0
3	27.0	15.0	19.5	---	---	---	15.0	9.0	11.5	13.0	3.5	7.5
4	27.5	14.5	19.5	---	---	---	15.0	9.0	11.5	13.5	4.5	8.0
5	27.0	14.5	19.0	---	---	---	15.5	9.5	11.5	15.0	5.5	9.5
6	23.5	15.0	17.5	---	---	---	14.5	9.0	11.0	13.0	6.5	9.0
7	21.0	13.5	16.0	21.0	---	---	14.0	8.5	11.0	14.0	5.0	8.5
8	---	---	---	18.5	10.5	13.5	15.0	8.5	11.0	15.0	5.0	9.0
9	---	---	---	19.0	9.5	13.0	16.0	9.0	11.5	14.5	6.0	9.0
10	---	---	---	18.5	9.5	12.5	16.0	9.0	12.0	14.5	6.0	9.5
11	---	---	---	17.5	8.5	11.5	15.5	10.0	12.0	14.0	5.5	9.0
12	---	---	---	17.0	7.5	11.5	12.5	9.5	11.0	12.5	6.5	9.0
13	---	---	---	18.0	7.5	11.5	12.5	8.5	10.0	13.0	6.5	9.5
14	---	---	---	18.5	8.0	12.0	11.5	7.0	9.0	13.0	6.5	9.5
15	---	---	---	18.5	8.5	12.5	12.0	5.5	8.0	13.0	7.5	10.0
16	---	---	---	17.0	8.5	12.0	12.5	5.5	8.5	13.5	8.0	10.5
17	---	---	---	15.0	9.0	11.5	13.0	6.5	9.0	13.5	9.0	11.0
18	---	---	---	14.0	8.0	10.0	13.5	6.5	9.0	13.0	9.5	11.0
19	---	---	---	14.0	7.0	10.0	13.5	7.0	9.5	13.0	10.0	11.5
20	---	---	---	14.0	7.5	10.0	12.5	7.0	10.0	12.5	9.0	10.5
21	---	---	---	13.5	8.0	10.5	13.5	9.5	11.0	12.0	8.5	10.0
22	---	---	---	13.5	7.5	10.0	12.5	9.0	10.5	14.0	9.0	11.0
23	---	---	---	13.5	7.5	10.5	15.0	7.0	10.0	14.0	9.0	11.0
24	---	---	---	14.5	8.5	11.0	16.0	6.5	10.5	14.5	8.5	11.0
25	---	---	---	13.5	9.0	11.0	16.0	7.0	10.5	16.0	6.5	10.0
26	---	---	---	15.5	9.0	11.0	15.5	7.0	10.5	16.0	6.0	10.5
27	---	---	---	14.5	9.0	11.0	13.0	8.0	10.0	16.0	6.0	10.0
28	---	---	---	12.0	7.0	9.5	15.5	7.5	10.5	17.0	6.5	10.5
29	---	---	---	11.5	6.5	8.5	15.5	7.0	10.5	17.5	7.0	11.5
30	---	---	---	13.0	6.5	9.0	15.0	7.5	10.0	18.0	7.5	11.5
31	---	---	---	---	---	---	12.5	5.0	8.0	18.5	7.5	11.5
MONTH	27.5	13.5	18.5	21.0	6.5	11.0	16.0	5.0	10.5	18.5	3.0	10.0

10261500 MOJAVE RIVER AT LOWER NARROWS, NEAR VICTORVILLE, CA--Continued

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

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT						
31...	1030	11	17.8	103	3.1	73
NOV						
26...	1055	23	12.8	78	4.8	61
DEC						
30...	1100	30	14.8	91	7.4	42
JAN						
29...	1115	29	14.6	106	8.3	53
FEB						
24...	1045	42	16.0	154	17	35
MAR						
25...	1040	31	16.2	74	6.2	47
APR						
29...	1125	32	21.8	94	8.1	45
MAY						
27...	1050	23	24.2	25	1.6	31
JUN						
28...	1130	18	28.5	18	.87	50
JUL						
13...	1050	24	26.5	12	.78	49
AUG						
19...	1315	19	24.5	10	.51	32
SEP						
14...	1145	35	24.5	123	12	58

MOJAVE RIVER BASIN

10262000 MOJAVE RIVER NEAR HODGE, CA

LOCATION.--Lat 34°50'09", long 117°11'27", in SW¼SE¼SE¼ sec.28, T.9 N., R.3 W., San Bernardino County, at county bridge 1.5 mi (2.4 km) north of Hodge, 10.9 mi (17.5 km) southwest of Barstow, and 44.5 mi (71.6 km) downstream from Silverwood Lake.

DRAINAGE AREA.--1,091 mi² (2,826 km²), revised.

PERIOD OF RECORD.--October 1930 to September 1932, October 1970 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 2,260 ft (689 m), from topographic map. Prior to Oct. 1, 1970, at different datum.

REMARKS.--No flow since Aug. 3, 1974. No gage-height record Oct. 1 to Dec. 17, Sept. 16-30. Regulation by Lake Arrowhead, capacity, 48,000 acre-ft (59.2 hm³) used principally for recreation, Silverwood Lake, capacity, 78,000 acre-ft (96.2 hm³) used for the storage and distribution of imported water and recreation, and Mojave Forks Reservoir, capacity, 89,700 acre-ft (111 hm³), with ungated opening, capacity, 23,500 ft³/s (666 m³/s). Diversion and pumping for irrigation of about 12,000 acres (48.6 km²) above station.

AVERAGE DISCHARGE.--8 years, (water years 1931-32, 1971-76), 11.5 ft³/s (0.326 m³/s), 8,330 acre-ft/yr (10.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,900 ft³/s (252 m³/s) Feb. 9, 1932, gage height, 5.20 ft (1.585 m), datum then in use; no flow all or most of each year.

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

MOJAVE RIVER BASIN

225

10262500 MOJAVE RIVER AT BARSTOW, CA

LOCATION.--Lat 34°54'25", long 117°01'19", in SE¼SW¼SW¼ sec.31, T.10 N., R.1 W., San Bernardino County, on left bank 75 ft (23 m) upstream from bridge on U.S. Highway 91 at Barstow.

DRAINAGE AREA.--1,291 mi² (3,344 km²), revised.

PERIOD OF RECORD.--October 1930 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,089.34 (636.831 m) above mean sea level.

REMARKS.--Records poor. Regulation by Lake Arrowhead, capacity, 48,000 acre-ft (59.2 hm³) used principally for recreation, Silverwood Lake, capacity, 78,000 acre-ft (96.2 hm³) used for the storage and distribution of imported water and recreation, and Mojave Forks Reservoir, capacity, 89,700 acre-ft (111 hm³) with ungated opening, capacity, 23,500 ft³/s (666 m³/s). Diversions and pumping for irrigation of about 15,000 acres (60.7 km²) above station.

AVERAGE DISCHARGE.--46 years, 22.1 ft³/s (0.626 m³/s), 16,010 acre-ft/yr (19.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,300 ft³/s (1,820 m³/s) Mar. 3, 1938, gage height, 8.60 ft (2.621 m), on basis of slope-area measurement of maximum flow; no flow for most months each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12 ft³/s (0.34 m³/s) Sept. 10, on basis of estimate of maximum flow; no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												0
2												0
3												0
4												0
5												0
6												0
7												0
8												0
9												0
10												.50
11												0
12												0
13												0
14												0
15												0
16												0
17												0
18												0
19												0
20												0
21												0
22												0
23												0
24												0
25												0
26												0
27												0
28												0
29												0
30												0
31		---			---		---		---			---
TOTAL	0	0	0	0	0	0	0	0	0	0	0	.50
MEAN	0	0	0	0	0	0	0	0	0	0	0	.017
MAX	0	0	0	0	0	0	0	0	0	0	0	.50
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	0	0	1.0
CAL YR 1975	TOTAL	0.17	MEAN	.0005	MAX	.17	MIN	0	AC-FT	.3		
WTR YR 1976	TOTAL	0.50	MEAN	.0010	MAX	.50	MIN	0	AC-FT	1.0		

MOJAVE RIVER BASIN

10263000 MOJAVE RIVER AT AFTON, CA

LOCATION.--Lat 35°02'14", long 116°23'00", in SW¼NW¼SE¼ sec.18, T.11 N., R.6 E., San Bernardino County, on downstream end of right pier of Union Pacific Railroad bridge, 0.3 mi (0.5 km) west of Afton.

DRAINAGE AREA.--2,121 mi² (5,493 km²), revised.

PERIOD OF RECORD.--October 1929 to September 1932, October 1952 to current year. Records for the water year 1930 incomplete, yearly estimate published in WSP 1314.

GAGE.--Water-stage recorder. Datum of gage is 1,400.15 ft (426.766 m) above mean sea level. Dec. 21, 1929, to Sept. 30, 1932, at site 1.7 mi (2.7 km) downstream at different datum.

REMARKS.--Records poor. Natural flow affected by ground-water withdrawals, diversions, municipal use, and storage in upstream reservoirs 100 mi (160 km) upstream (station 10261500).

AVERAGE DISCHARGE.--27 years, 5.29 ft³/s (0.150 m³/s), 3,830 acre-ft/yr (4.72 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,000 ft³/s (510 m³/s) Jan. 26, 1969, gage height, 10.40 ft (3.170 m), 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 many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,060 ft³/s (30.0 m³/s) Sept. 11 (time unknown), gage height, 7.08 ft (2.158 m), no other peak above base of 100 ft³/s (2.83 m³/s); minimum daily, no flow several months.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.05	.26	.64	.54	.16	.26				0
2		0	.08	.26	.64	.54	.16	.26				0
3		0	.13	.26	.75	.75	.16	.21				0
4		0	.16	.26	1.0	.64	.16	.21				0
5		0	.16	.26	.88	.64	.13	.21				0
6		0	.21	.26	1.0	.64	.21	.21				0
7		0	.26	.26	.88	.64	.26	.21				0
8		0	.32	.32	1.2	.64	.26	.32				0
9		0	.38	.32	1.8	.64	.21	.32				0
10		0	.38	.32	1.0	.64	.16	.32				0
11		0	.38	.32	.75	.64	.13	.26				79
12		0	.38	.32	.75	.54	.10	.21				1.0
13		0	.26	.32	.75	.54	.21	.16				.50
14		0	.13	.32	.64	.54	.64	.16				.40
15		0	.13	.32	.54	.54	.38	.10				.40
16		0	.16	.32	.54	.54	.32	.08				.35
17		0	.21	.32	.54	.64	.21	.08				.30
18		0	.26	.38	.45	.75	.16	.06				.25
19		0	.26	.38	.45	.88	.21	.05				.20
20		0	.26	.38	.45	.64	.21	.05				.15
21		0	.26	.38	.45	.32	.21	.05				.15
22		0	.26	.38	.45	.26	.21	.05				.15
23		0	.26	.26	.45	.26	.21	.05				.15
24		0	.26	.26	.54	.21	.26	.05				.15
25		0	.26	.21	.54	.21	.26	.05				.15
26		0	.26	.26	.64	.21	.26	.04				.15
27		.02	.26	.38	.64	.21	.26	.03				.17
28		.05	.32	.54	.64	.21	.26	0				.17
29		.03	.32	.54	.54	.16	.26	0				.17
30		.04	.52	.54	---	.16	.26	0				.17
31		---	.32	.64	---	.16	---	0	---			---
TOTAL	0	.14	7.86	10.55	20.54	14.93	6.89	4.06	0	0	0	84.13
MEAN	0	.005	.25	.34	.71	.48	.23	.13	0	0	0	2.80
MAX	0	.05	.52	.64	1.8	.88	.64	.32	0	0	0	79
MIN	0	0	.05	.21	.45	.16	.10	0	0	0	0	0
AC-FT	0	.3	16	21	41	38	14	8.1	0	0	0	167
CAL YR 1975	TOTAL	65.78	MEAN .18	MAX	1.0	MIN 0	AC-FT 130					
WTR YR 1976	TOTAL	149.10	MEAN .41	MAX	79	MIN 0	AC-FT 296					

10263500 BIG ROCK CREEK NEAR VALYERMO, CA

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

DRAINAGE AREA.--22.9 mi² (59.3 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1923 to current year. Monthly discharge only for October 1937 to January 1939, published in WSP 1314. Prior to October 1954, published as Rock Creek near Valyermo.

GAGE.--Water-stage recorder. Altitude of gage is 4,050 ft (1,234 m), from topographic map. Prior to May 4, 1938, at same site at different datums. May 4, 1938, to Jan. 26, 1939, at site 0.2 mi (0.3 km) downstream (below Punchbowl Canyon) at different datum.

REMARKS.--Records poor. No regulation or diversion above station. Some infiltration into the streambed in the immediate vicinity of station.

COOPERATION.--Eighteen discharge measurements were furnished by Los Angeles County Flood Control District.

AVERAGE DISCHARGE.--53 years (water years 1924-76), 15.6 ft³/s (0.442 m³/s), 11,300 acre-ft/yr (13.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,300 ft³/s (235 m³/s) Mar. 2, 1938, on basis of slope-area measurement of maximum flow; minimum daily, 0.70 ft³/s (0.020 m³/s) Nov. 5, 1951.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 360 ft³/s (10.2 m³/s) Sept. 11 (0530 hrs), gage height, 4.90 ft (1.494 m), no other peak above base of 50 ft³/s (1.42 m³/s); minimum daily, 2.9 ft³/s (0.082 m³/s) Feb. 2, 3, 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	3.6	3.7	3.3	3.1	11	10	14	8.4	6.5	5.3	4.6
2	3.7	3.6	3.7	3.3	2.9	11	10	14	8.2	6.5	5.3	4.6
3	3.7	3.6	3.7	3.3	2.9	13	10	15	8.1	6.0	5.3	4.9
4	3.7	3.5	3.7	3.3	3.0	12	10	15	8.1	6.0	5.3	4.9
5	3.7	3.5	3.7	3.3	2.9	11	10	14	8.1	5.7	5.3	4.6
6	3.5	3.5	3.5	3.3	10	11	9.5	14	8.0	5.7	5.3	4.6
7	3.5	3.5	3.5	3.3	8.0	11	8.8	13	7.8	5.3	5.3	4.6
8	3.5	3.8	3.5	3.3	28	11	9.0	12	7.8	5.3	5.3	4.6
9	3.5	3.7	3.5	3.3	22	11	8.8	12	7.8	5.3	5.3	4.6
10	3.5	3.7	3.3	3.3	16	11	8.6	11	8.3	5.7	4.9	30
11	3.5	3.9	3.5	3.5	14	11	8.5	11	8.3	5.3	4.6	118
12	3.5	3.8	3.5	3.5	13	11	8.6	13	8.3	5.3	4.2	40
13	3.5	3.9	3.7	3.5	13	11	8.7	13	7.3	5.3	4.2	29
14	3.5	3.9	3.4	3.5	12	11	8.6	13	7.3	5.3	4.2	22
15	3.5	3.9	3.3	3.5	12	11	9.4	13	7.0	5.3	4.6	15
16	3.5	3.9	3.3	3.5	12	10	9.7	13	6.9	5.7	4.6	11
17	3.5	3.9	3.3	3.5	12	11	10	12	6.8	5.7	4.6	9.8
18	3.5	3.9	3.3	3.5	11	11	9.8	11	7.3	5.7	4.6	9.2
19	3.5	4.2	3.3	3.5	11	11	10	11	7.3	5.7	4.9	8.8
20	3.5	4.2	3.3	3.7	11	11	11	11	7.3	5.3	5.3	8.4
21	3.5	4.2	3.5	3.7	11	11	11	11	6.9	5.3	5.3	8.0
22	3.5	4.2	3.5	3.7	11	11	12	10	6.6	5.7	4.9	7.8
23	3.5	4.2	3.5	3.7	11	10	12	10	6.5	5.7	4.6	7.6
24	3.5	4.1	3.5	3.7	11	10	12	10	6.5	5.3	4.3	20
25	3.5	4.1	3.5	3.7	11	11	13	9.5	6.5	5.3	4.3	11
26	3.4	4.1	3.5	3.5	11	11	13	9.3	6.5	5.3	4.3	8.8
27	3.5	4.1	3.3	3.7	11	11	14	9.2	6.5	5.3	4.3	7.8
28	3.5	3.7	3.3	3.5	11	11	14	9.3	6.5	5.3	4.3	7.2
29	3.7	3.7	3.3	3.3	11	11	14	9.4	6.0	5.3	4.6	6.7
30	3.6	3.7	3.3	3.3	---	10	14	9.0	6.5	5.3	4.6	6.5
31	3.7	---	3.3	3.1	---	10	---	8.5	---	5.3	4.6	---
TOTAL	109.9	115.6	107.2	107.1	318.8	339	318.0	360.2	219.4	171.7	148.5	434.6
MEAN	3.55	3.85	3.46	3.45	11.0	10.9	10.6	11.6	7.31	5.54	4.79	14.5
MAX	3.7	4.2	3.7	3.7	28	13	14	15	8.4	6.5	5.3	118
MIN	3.4	3.5	3.3	3.1	2.9	10	8.5	8.5	6.0	5.3	4.2	4.6
AC-FT	218	229	213	212	632	672	631	714	435	341	295	862

CAL YR 1975 TOTAL 2472.3 MEAN 6.77 MAX 18 MIN 3.1 AC-FT 4900
WTR YR 1976 TOTAL 2750.0 MEAN 7.51 MAX 118 MIN 2.9 AC-FT 5450

ANTELOPE VALLEY

10263500 BIG ROCK CREEK NEAR VALYERMO, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: January 1962 to current year.

INSTRUMENTATION.--Temperature recorder since January 1962.

REMARKS.--Mean values for entire year were used due to very poor circulation at the probe. Periods of missing record were due to recorder malfunction.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURES: Maximum 24.0°C Aug. 19, 26, 1970, July 15, 31, 1972; minimum 0.5°C Jan. 4, 1974.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 18.7°C July 4, 13; minimum recorded, 4.2°C Feb. 6.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.0	10.7	8.4	5.7	8.9	8.4	10.2	12.5	---	18.2	15.3	15.6
2	14.0	11.0	9.9	5.8	8.9	6.1	10.3	12.3	---	18.4	14.9	15.9
3	14.4	11.2	9.7	6.4	10.4	5.6	10.3	11.7	---	18.6	14.8	14.8
4	14.4	11.0	9.8	6.9	8.1	6.5	8.8	12.1	---	18.7	14.9	15.6
5	14.2	11.1	9.2	7.9	6.4	7.2	9.5	12.1	---	18.6	14.8	15.2
6	13.5	11.1	8.7	7.5	4.2	7.4	10.0	11.8	---	18.1	14.7	15.0
7	12.9	11.0	8.8	7.2	6.6	8.1	10.7	11.5	---	17.4	14.8	15.3
8	11.8	10.9	9.2	7.5	7.0	8.3	10.1	12.4	---	17.0	14.7	15.3
9	12.2	10.0	9.4	8.1	5.4	8.5	10.2	12.6	---	17.4	14.7	14.7
10	12.4	10.5	10.0	7.5	6.4	9.1	10.4	12.6	---	17.4	14.8	14.6
11	13.1	9.4	10.1	7.4	7.4	9.3	10.4	12.8	---	18.1	15.0	14.5
12	11.9	9.2	9.5	7.8	7.8	8.7	9.9	13.7	---	18.2	15.1	15.3
13	11.4	9.4	8.7	7.7	8.4	8.9	9.8	13.9	---	18.7	15.3	15.5
14	11.4	9.9	7.5	7.8	8.8	9.5	9.5	14.3	---	18.1	14.9	---
15	11.9	10.3	6.9	8.2	7.8	9.7	9.4	14.3	---	16.4	14.7	---
16	12.0	10.2	7.1	8.8	8.1	8.7	8.6	15.0	---	16.7	14.3	---
17	12.0	9.5	7.7	9.2	9.0	10.6	9.5	---	---	16.5	14.2	---
18	11.9	8.3	7.5	9.5	9.0	10.3	10.4	---	---	16.1	14.8	---
19	12.1	8.1	7.7	8.9	8.8	9.6	10.9	---	---	16.1	15.5	---
20	13.0	8.7	8.0	8.1	7.8	9.1	11.4	---	---	16.1	17.2	---
21	12.8	8.7	8.4	8.0	7.7	9.4	11.7	---	---	16.6	17.6	---
22	12.0	8.5	8.2	8.5	8.0	9.9	11.6	---	---	14.5	17.9	---
23	10.3	8.6	7.9	8.7	8.3	10.2	11.6	---	---	15.5	17.5	---
24	9.7	9.4	8.5	8.6	8.7	10.6	12.0	---	---	16.2	17.6	---
25	10.1	9.7	8.4	7.9	9.0	10.3	11.7	---	17.3	15.5	17.9	---
26	11.4	9.3	8.5	7.9	9.5	9.6	10.7	---	18.2	15.7	17.5	---
27	11.5	9.0	8.8	8.2	9.7	9.5	10.9	---	18.5	15.9	17.7	---
28	10.2	7.4	8.9	8.8	10.0	9.2	11.1	---	17.8	15.7	16.6	---
29	10.6	7.6	8.9	9.0	10.0	9.6	11.6	---	18.2	16.0	15.9	---
30	10.7	7.6	8.6	9.3	---	9.9	12.1	---	18.1	15.7	16.0	---
31	10.6	---	6.8	9.2	---	10.3	---	---	---	15.7	16.4	---
MONTH	12.0	9.5	8.5	8.0	8.1	8.9	10.5	---	---	16.8	15.7	---
YEAR	MAX	18.7	MIN	4.2	MEAN	11.3						

10264000 LITTLE ROCK CREEK NEAR LITTLE ROCK, CA

LOCATION.--Lat 34°27'47", long 118°01'04", in SW¼SW¼NE¼ sec.3, T.4 N., R.11 W., Los Angeles County, on right bank 0.3 mi (0.5 km) upstream from Santiago Creek, 1.6 mi (2.6 km) upstream from Little Rock Palmdale Irrigation District's dam, and 5 mi (8 km) south of Little Rock.

DRAINAGE AREA.--49.0 mi² (126.9 km²).

PERIOD OF RECORD.--October 1930 to February 1938, May to September 1938, April 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,290 ft (1,003 m), from topographic map. Prior to May 1943, at site 500 ft (152 m) downstream at different datums.

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

COOPERATION.--Records furnished by Los Angeles County Flood Control District.

AVERAGE DISCHARGE.--44 years (1930-37, 1939-76), 16.1 ft³/s (0.456 m³/s), 11,660 acre-ft/yr (14.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge.--17,000 ft³/s (481 m³/s), estimated, Mar. 2, 1938; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 643 ft³/s (18.2 m³/s) Feb. 8, gage height, 8.02 ft (2.444 m); no flow many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	1.0	.90	38	20	15	2.7	.20		0
2			.50	1.0	.90	49	19	16	2.3	.20		0
3			.90	1.0	.90	34	19	16	2.3	.20		0
4			1.0	1.0	1.0	24	20	15	2.1	.20		0
5			1.0	1.0	1.2	21	18	14	2.0	.20		0
6			1.0	1.0	2.3	19	17	14	2.0	.20		0
7			1.0	1.0	3.1	18	16	14	1.8	.10		0
8			1.0	1.0	147	18	17	12	1.8	.10		0
9			1.0	1.0	270	17	15	11	2.1	.10		0
10			1.0	1.0	74	19	15	10	2.3	.10		5.0
11			1.0	1.0	45	19	15	9.5	3.2	0		133
12			1.0	1.0	34	19	16	8.7	2.9	0		46
13			1.0	1.0	28	18	16	7.4	2.7	0		16
14			1.0	1.0	27	18	16	7.0	2.1	0		13
15			1.0	1.0	25	19	16	6.4	1.8	0		11
16			1.2	1.0	20	22	15	6.1	1.2	0		7.8
17			1.2	1.0	17	24	14	5.7	1.0	0		5.1
18			1.2	1.0	19	30	14	5.4	.70	0		4.4
19			1.2	1.0	20	32	14	5.2	.60	0		3.7
20			1.2	.90	20	28	15	5.2	.50	0		3.0
21			1.2	.90	17	25	16	5.2	.60	0		2.3
22			1.2	.90	15	24	19	4.9	.50	0		2.3
23			1.2	.90	14	24	20	4.6	.40	0		2.0
24			1.2	.90	12	26	21	4.4	.30	0		4.9
25			1.2	.90	11	28	22	4.4	.20	0		4.2
26			1.2	.90	14	26	21	4.2	.20	0		3.6
27			1.2	.90	16	25	19	3.9	.20	0		2.9
28			1.2	.90	17	24	18	3.6	.20	0		2.5
29			1.2	.90	19	22	17	3.6	.20	0		2.1
30			1.2	.90	---	20	15	3.2	.20	0		2.1
31		---	1.0	.90	---	20	---	2.9	---	0		---
TOTAL	0	0	32.40	29.80	891.30	750	515	248.5	41.10	1.60	0	276.9
MFAN	0	0	1.05	.96	30.7	24.2	17.2	8.02	1.37	.052	0	9.23
MAX	0	0	1.2	1.0	270	49	22	16	3.2	.20	0	133
MIN	0	0	0	.90	.90	17	14	2.9	.20	0	0	0
AC-FT	0	0	64	59	1770	1490	1020	493	82	3.2	0	549
CAL YR 1975	TOTAL	2739.40	MEAN 7.51	MAX 124	MIN 0	AC-FT 5430						
WTR YR 1976	TOTAL	2786.60	MEAN 7.61	MAX 270	MIN 0	AC-FT 5530						

10264600 OAK CREEK NEAR MOJAVE, CA

LOCATION.--Lat 35°03'00", long 118°21'25", in NW¼ sec.15, T.11 N., R.14 W., Kern County, on upstream right wingwall of culvert, 100 ft (30 m) downstream from unnamed tributary, 0.1 mi (0.2 km) west of junction of Oak Creek and Willow Springs Roads, and 10.5 mi (16.9 km) west of Mojave.

DRAINAGE AREA.--15.8 mi² (40.9 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 4,100 ft (1,250 m), from topographic map.

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

AVERAGE DISCHARGE.--19 years, 0.67 ft³/s (0.019 m³/s), 485 acre-ft/yr (598,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,740 ft³/s (49.3 m³/s) May 14, 1973, by slope-area measurement, caused by failure of small earthen dam 4 mi (6 km) upstream during intense local thunderstorm; maximum gage height, 10.53 ft (3.210 m) May 14, 1973, ponding at culvert 0.1 mi (0.2 km) downstream; no flow for some months in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3.1 ft³/s (0.088 m³/s) Feb. 24, gage height 2.50 ft (0.762 m); minimum daily, 0.01 ft³/s (<0.001 m³/s) Oct. 1-5, 7, 8, 13-24.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.03	.04	.04	.02	.11	.10	.12	.06	.03	.03	.02
2	.01	.03	.05	.04	.02	.11	.10	.12	.05	.03	.03	.02
3	.01	.04	.04	.04	.03	.11	.10	.12	.05	.03	.03	.02
4	.01	.04	.04	.04	.02	.11	.10	.12	.05	.03	.03	.02
5	.01	.05	.04	.04	.02	.11	.12	.12	.05	.03	.03	.02
6	.02	.05	.04	.04	.02	.10	.12	.12	.05	.03	.03	.02
7	.01	.05	.03	.04	.02	.10	.12	.12	.04	.03	.03	.02
8	.01	.05	.03	.04	.02	.10	.12	.12	.04	.03	.03	.02
9	.02	.05	.04	.04	.04	.10	.12	.12	.04	.03	.03	.02
10	.02	.06	.04	.03	.04	.10	.12	.12	.04	.03	.03	.04
11	.02	.06	.04	.02	.04	.10	.12	.12	.04	.03	.03	.02
12	.02	.06	.03	.02	.04	.10	.12	.12	.04	.03	.03	.02
13	.01	.06	.03	.02	.04	.10	.12	.12	.04	.03	.03	.02
14	.01	.06	.03	.02	.04	.10	.12	.12	.04	.03	.03	.02
15	.01	.06	.03	.02	.04	.10	.13	.12	.03	.03	.02	.02
16	.01	.05	.03	.02	.04	.10	.14	.11	.03	.03	.02	.02
17	.01	.05	.03	.02	.04	.09	.14	.10	.03	.03	.02	.02
18	.01	.05	.03	.02	.04	.09	.13	.10	.03	.03	.02	.02
19	.01	.05	.03	.02	.04	.11	.12	.09	.03	.03	.02	.02
20	.01	.05	.03	.02	.04	.10	.12	.09	.03	.03	.02	.02
21	.01	.05	.04	.02	.04	.10	.12	.08	.03	.03	.02	.02
22	.01	.05	.04	.02	.04	.10	.12	.08	.03	.03	.02	.02
23	.01	.05	.04	.02	.03	.10	.12	.08	.03	.03	.02	.02
24	.01	.05	.04	.02	.28	.10	.12	.07	.03	.03	.02	.02
25	.02	.04	.04	.02	.15	.10	.12	.07	.03	.03	.02	.02
26	.02	.05	.04	.02	.13	.10	.12	.07	.04	.03	.02	.02
27	.02	.05	.04	.02	.12	.10	.12	.07	.03	.03	.02	.02
28	.03	.05	.04	.02	.12	.10	.12	.07	.04	.03	.02	.02
29	.03	.04	.03	.02	.11	.10	.12	.06	.03	.03	.02	.02
30	.03	.04	.03	.02	---	.10	.12	.06	.03	.03	.02	.02
31	.03	---	.04	.02	---	.10	---	.06	---	.03	.02	---
TOTAL	.47	1.47	1.12	.81	1.67	3.14	3.58	3.06	1.13	.93	.76	.62
MEAN	.015	.049	.036	.026	.058	.10	.12	.099	.038	.030	.025	.021
MAX	.03	.06	.05	.04	.28	.11	.14	.12	.06	.03	.03	.04
MIN	.01	.03	.03	.02	.02	.09	.10	.06	.03	.03	.02	.02
AC-FT	.9	2.9	2.2	1.6	3.3	6.2	7.1	6.1	2.2	1.8	1.5	1.2
CAL YR 1975	TOTAL	66.47	MEAN .18	MAX 1.4	MIN .01	AC-FT 132						
WTR YR 1976	TOTAL	18.76	MEAN .051	MAX .28	MIN .01	AC-FT 37						

10264750 PINE TREE CREEK NEAR MOJAVE, CA

LOCATION.--Lat 35°13'50", long 118°05'07", in SW¼NW¼SE¼ sec.14, T.31 S., R.36 E., Kern County, on downstream side of city of Los Angeles aqueduct-siphon pier near right bank, 0.5 mi (0.8 km) downstream from unnamed tributary, and 13 mi (21 km) northeast of Mojave.

DRAINAGE AREA.--33.5 mi² (86.8 km²).

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

GAGE.--Water-stage recorder with rain-gage attachment. Altitude of gage is 2,700 ft (823 m), from topographic map. Prior to Oct. 1, 1961, at datum 3.0 ft (0.9 m) higher.

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

AVERAGE DISCHARGE.--18 years (water years 1959-76), 0.20 ft³/s (0.006 m³/s), 145 acre-ft/yr (179,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,000 ft³/s (850 m³/s) Aug. 23, 1961, on basis of field estimate of maximum flow; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5.3 ft³/s (0.15 m³/s) Sept. 11, gage height, 5.01 ft (1.527 m); no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0						.01	0
2					0						0	0
3					0						0	0
4					0						0	0
5					0						0	0
6					0						0	0
7					.09						0	0
8					.11						0	0
9					.63						0	0
10					0						0	.10
11					0						0	.31
12					0						0	0
13					0						0	0
14					0						0	0
15					0						0	0
16					0						0	0
17					0						0	0
18					0						0	0
19					0						0	0
20					0						0	0
21					0						0	0
22					0						0	0
23					0						0	0
24					0						0	0
25					0						0	0
26					0						0	0
27					0						0	0
28					0						0	0
29					0						0	0
30					---						0	---
31		---			---		---		---		0	---
TOTAL	0	0	0	0	.83	0	0	0	0	0	.01	.41
MEAN	0	0	0	0	.029	0	0	0	0	0	.0003	.014
MAX	0	0	0	0	.63	0	0	0	0	0	.01	.31
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	1.6	0	0	0	0	0	.02	.8
(a)	0	0	0	0	.5	0	0	0	0	0	0	.4
CAL YR 1975	TOTAL 0.14	MEAN .0004	MAX .08	MIN 0	AC-FT .3							
WTR YR 1976	TOTAL 1.25	MEAN .0030	MAX .63	MIN 0	AC-FT 2.5							

(a) Precipitation, in inches

OWENS LAKE BASIN

10265200 CONVICT CREEK NEAR MAMMOTH LAKES, CA

LOCATION.--Lat 37°36'26", long 118°50'52", in NE¼NE¼ sec.14, T.4 S., R.28 E., Mono County, on right bank 1.1 mi (1.8 km) downstream from Convict Lake, 2.0 mi (3.2 km) upstream from U.S. Highway 395, and 7.0 mi (11.2 km) southeast of Mammoth Lakes (Ranger Station).

DRAINAGE AREA.--18.2 mi² (47.1 km²).

PERIOD OF RECORD.--July 1925 to current year. Prior to October 1959 monthly discharge only, published in WSP 1314 and 1734.

GAGE.--Water-stage recorder and wood control. Altitude of gage is 7,450 ft (2,271 m), from topographic map. Prior to Nov. 15, 1926, nonrecording gage at same site and datum.

REMARKS.--Records poor. Some regulation by Convict Lake above station. No diversion above station.

COOPERATION.--Records were furnished by city of Los Angeles, Department of Water and Power.

AVERAGE DISCHARGE.--51 years, 24.4 ft³/s (0.691 m³/s), 17,680 acre-ft/yr (21.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 290 ft³/s (8.21 m³/s) June 29, 1932, gage height, 4.43 ft (1.350 m); minimum daily, 1.0 ft³/s (0.028 m³/s) Sept. 20-22, 1974.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	7.4	6.4	8.0	8.0	9.0	7.5	9.7	27	20	29	10
2	13	7.4	6.4	8.0	8.0	10	7.5	9.7	28	20	29	10
3	13	7.4	6.2	8.0	8.0	8.0	7.1	9.7	28	20	28	10
4	13	7.4	6.2	8.0	8.0	9.0	6.6	9.8	27	19	26	10
5	13	7.4	6.0	8.0	8.0	9.0	6.2	10	27	18	26	11
6	13	7.4	6.0	8.0	9.0	8.0	6.2	12	26	17	24	11
7	12	7.4	6.0	7.0	9.0	8.0	6.2	13	25	17	23	10
8	12	7.2	6.0	7.0	9.0	8.0	6.2	14	25	17	22	10
9	12	7.2	6.0	7.0	9.0	8.0	6.2	14	25	17	20	10
10	12	7.2	6.0	7.0	9.0	8.0	6.2	15	25	16	20	10
11	11	7.2	6.0	8.0	9.0	8.0	5.8	15	25	16	19	13
12	11	7.2	6.0	8.0	9.0	8.0	5.8	16	24	16	18	14
13	10	7.2	6.0	9.0	9.0	8.0	4.9	18	24	16	17	15
14	9.7	7.0	6.0	9.0	9.0	8.0	3.6	20	23	16	16	16
15	9.7	7.0	6.0	9.0	8.0	7.0	3.6	21	23	16	16	16
16	9.7	7.0	6.0	9.0	8.0	7.0	4.0	25	22	16	15	16
17	9.7	7.0	5.8	9.0	8.0	7.0	4.4	28	23	17	15	15
18	9.7	7.0	5.8	9.0	8.0	7.0	4.9	29	24	16	14	15
19	9.7	7.0	5.8	9.0	8.0	6.0	6.2	30	25	16	14	15
20	9.7	7.0	5.8	9.0	8.0	6.0	7.1	30	25	16	13	14
21	9.7	7.0	5.6	9.0	8.0	6.0	7.5	30	26	15	13	14
22	9.7	6.8	5.6	9.0	8.0	6.0	8.0	30	26	14	13	14
23	9.7	6.8	5.6	8.0	8.0	6.0	8.4	29	26	15	12	14
24	9.7	6.8	5.6	8.0	8.0	6.0	8.8	28	25	16	12	13
25	9.2	6.8	5.6	8.0	8.0	7.0	8.8	28	25	17	11	13
26	8.7	6.8	5.6	8.0	7.0	7.0	8.8	28	22	22	11	13
27	8.2	6.6	5.6	8.0	7.0	7.0	9.3	27	21	25	11	13
28	8.2	6.4	5.6	8.0	7.0	8.0	9.7	28	21	27	11	12
29	8.2	6.4	5.6	8.0	7.0	8.0	9.7	28	21	27	11	12
30	8.2	6.4	5.6	8.0	---	8.0	9.7	28	20	28	10	13
31	8.2	---	5.6	8.0	---	7.0	---	28	---	28	10	---
TOTAL	323.6	210.8	182.0	254.0	237.0	233.0	204.9	660.9	734	576	529	382
MEAN	10.4	7.03	5.87	8.19	8.17	7.52	6.83	21.3	24.5	18.6	17.1	12.7
MAX	13	7.4	6.4	9.0	9.0	10	9.7	30	28	28	29	16
MIN	8.2	6.4	5.6	7.0	7.0	6.0	3.6	9.7	20	14	10	10
AC-FT	642	418	361	504	470	462	406	1310	1460	1140	1050	758
CAL YR 1975	TOTAL	9397.7	MEAN	25.7	MAX	167	MIN	5.6	AC-FT	18640		
WTR YR 1976	TOTAL	4527.2	MEAN	12.4	MAX	30	MIN	3.6	AC-FT	8980		

10265700 ROCK CREEK AT LITTLE ROUND VALLEY, NEAR BISHOP, CA

LOCATION.--Lat 37°33'15", long 118°41'03", in SE¼SE¼ sec.32, T.4 S., R.30 E., Mono County, on right bank just upstream from diversion to Little Round Valley, 0.6 mi (1.0 km) south of Toms Place, and 20 mi (32 km) northwest of Bishop.

DRAINAGE AREA.--35.8 mi² (92.7 km²).

PERIOD OF RECORD.--January to December 1918, January 1920 to current year. Prior to October 1959 monthly discharge only, published in WSP 1314 and 1734.

GAGE.--Water-stage recorder. Parshall flume since May 1953. Altitude of gage is 7,280 ft (2,220 m), from topographic map. See WSP 1734 for history of changes prior to May 28, 1953.

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

COOPERATION.--Records were furnished by city of Los Angeles, Department of Water and Power.

AVERAGE DISCHARGE.--56 years (water years 1921-76), 24.5 ft³/s (0.694 m³/s), 17,750 acre-ft/yr (21.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--(1926 to current year): Maximum discharge, 312 ft³/s (8.84 m³/s) May 30, 1969, gage height, 5.00 ft (1.524 m); minimum daily, 2.2 ft³/s (0.062 m³/s) Nov. 30, 1971.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	12	12	8.5	9.3	11	11	20	31	21	40	8.5
2	13	12	11	9.5	9.0	17	12	22	30	21	36	8.7
3	13	12	11	11	9.3	15	11	21	30	20	32	9.0
4	12	12	11	9.8	9.0	16	11	21	29	19	28	9.3
5	12	12	11	9.5	19	17	11	21	28	19	25	11
6	12	11	10	10	17	18	11	21	27	19	23	11
7	15	11	10	9.3	16	17	12	21	26	19	22	11
8	13	11	10	9.3	9.5	13	11	23	26	20	21	12
9	13	11	10	9.3	9.5	9.8	11	23	25	20	20	12
10	13	11	10	10	9.5	9.8	11	24	26	20	18	16
11	15	13	10	9.3	9.5	9.8	11	26	29	19	17	19
12	14	12	12	9.3	9.3	10	11	28	26	19	16	19
13	14	12	12	9.3	9.0	9.8	11	31	23	19	15	23
14	14	12	12	9.3	9.0	9.8	12	37	22	20	16	25
15	13	12	12	9.3	9.3	10	11	40	21	20	16	23
16	13	12	12	9.5	9.3	10	15	41	20	24	14	21
17	13	11	9.5	9.5	9.0	11	19	43	22	24	14	19
18	13	13	9.5	9.5	9.0	10	12	42	26	24	13	18
19	12	13	9.8	9.0	9.5	10	13	40	31	25	13	17
20	12	13	10	9.8	15	10	15	37	34	24	13	16
21	12	13	10	10	12	11	16	36	36	22	12	17
22	12	13	9.5	9.8	11	11	16	33	36	21	12	16
23	12	13	9.5	9.5	10	11	16	31	32	24	11	16
24	12	10	9.3	9.5	9.0	12	18	29	28	25	11	16
25	12	10	8.7	10	9.0	11	17	28	24	28	8.5	15
26	13	10	8.7	11	9.3	11	15	28	23	33	8.5	14
27	13	10	9.0	9.0	9.3	10	15	29	22	38	8.5	14
28	12	13	9.0	9.3	9.5	10	15	32	22	46	8.7	13
29	12	23	8.7	9.3	9.3	10	16	33	22	43	8.5	18
30	12	16	8.7	9.3	---	11	18	33	22	43	8.5	24
31	12	---	8.7	9.3	---	11	---	32	---	42	8.5	---
TOTAL	396	369	314.6	296.0	303.4	363.0	404	926	799	781	517.7	471.5
MEAN	12.8	12.3	10.1	9.55	10.5	11.7	13.5	29.9	26.6	25.2	16.7	15.7
MAX	15	23	12	11	19	18	19	43	36	46	40	25
MIN	12	10	8.7	8.5	9.0	9.8	11	20	20	19	8.5	8.5
AC-FT	785	732	624	587	602	720	801	1840	1580	1550	1030	935

CAL YR 1975 TOTAL 8891.2 MEAN 24.4 MAX 138 MIN 8.7 AC-FT 17640
WTR YR 1976 TOTAL 5941.2 MEAN 16.2 MAX 46 MIN 8.5 AC-FT 11780

OWENS LAKE BASIN

10267000 PINE CREEK AT DIVISION BOX, NEAR BISHOP, CA

LOCATION.--Lat 37°24'59", long 118°37'15", in SE¼NW¼ sec.19, T.6 S., R.31 E., Inyo County, on right bank 0.2 mi (0.3 km) upstream from division box (at Rovana), 1.9 mi (3.1 km) west of Round Valley schoolhouse, and 13 mi (21 km) northwest of Bishop.

DRAINAGE AREA.--36.4 mi² (94.3 km²).

PERIOD OF RECORD.--October 1921 to current year. Prior to October 1959 monthly discharge only, published in WSP 1314 and 1734.

GAGE.--Water-stage recorder. Parshall flume since November 1938. Altitude of gage is 5,280 ft (1,609 m), from topographic map.

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

COOPERATION.--Records were furnished by city of Los Angeles, Department of Water and Power.

AVERAGE DISCHARGE.--55 years, 45.2 ft³/s (1.280 m³/s), 32,750 acre-ft/yr (40.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 509 ft³/s (14.4 m³/s) July 2, 1967, gage height, 6.05 ft (1.844 m); minimum daily, 10 ft³/s (0.28 m³/s) Jan. 8, 1930, Jan. 21, 1935.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	27	23	20	21	20	20	29	67	37	77	22
2	26	27	23	20	21	20	20	35	67	35	66	22
3	25	26	22	20	21	20	20	37	60	35	57	22
4	26	26	21	20	21	20	20	37	55	34	50	23
5	26	25	21	21	21	20	20	39	53	34	44	24
6	27	24	21	20	22	20	20	33	52	34	40	24
7	29	25	21	20	22	21	20	29	52	33	37	25
8	28	24	21	20	23	21	19	27	48	33	36	25
9	27	24	21	19	23	21	19	32	44	32	33	24
10	28	24	21	20	22	20	19	44	43	31	32	39
11	30	23	21	21	21	20	19	54	42	31	31	88
12	30	23	21	21	21	20	19	68	42	31	30	86
13	30	23	22	22	20	19	20	83	41	31	29	64
14	29	23	22	22	20	20	20	94	43	31	30	53
15	28	24	23	21	20	20	19	92	46	30	30	47
16	27	25	23	21	20	20	19	91	53	33	31	43
17	27	25	22	21	20	20	20	92	57	37	31	40
18	28	24	21	21	20	20	21	80	57	37	29	38
19	28	23	21	21	20	20	21	67	59	35	27	37
20	28	22	21	21	20	21	21	68	60	33	27	36
21	27	22	21	21	20	21	21	64	56	32	25	37
22	28	21	21	21	21	21	20	57	50	31	25	35
23	27	22	21	21	21	21	20	57	44	34	25	34
24	28	21	22	22	21	20	21	63	42	51	24	33
25	28	21	22	23	21	20	23	59	41	50	23	32
26	28	21	22	23	20	20	24	69	41	53	23	31
27	28	22	22	23	20	20	24	77	41	75	23	31
28	28	23	22	22	20	20	24	77	40	68	23	30
29	28	23	22	21	20	20	23	72	40	77	23	43
30	27	23	22	21	---	20	24	67	38	65	23	57
31	27	---	21	21	---	20	---	66	---	73	23	---
TOTAL	857	706	670	651	603	626	620	1859	1474	1276	1027	1145
MEAN	27.6	23.5	21.6	21.0	20.8	20.2	20.7	60.0	49.1	41.2	33.1	38.2
MAX	30	27	23	23	23	21	24	94	67	77	77	88
MIN	25	21	21	19	20	19	19	27	38	30	23	22
AC-FT	1700	1400	1330	1290	1200	1240	1230	3690	2920	2530	2040	2270
CAL YR 1975	TOTAL	16527	MEAN 45.3	MAX 234	MIN 20	AC-FT 32780						
WTR YR 1976	TOTAL	11514	MEAN 31.5	MAX 94	MIN 19	AC-FT 22840						

10268700 SILVER CANYON CREEK NEAR LAWS, CA

LOCATION.--Lat 37°24'28", long 118°16'43", in Inyo National Forest, Inyo County, on right bank 1.7 mi (2.7 km) upstream from mouth of canyon, 3.7 mi (6.0 km) east of Laws.

DRAINAGE AREA.--19.7 mi² (51.0 km²).

PERIOD OF RECORD.--March 1930 to current year. Prior to October 1959 monthly discharge only, published in WSP 1314 and 1734.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 5,120 ft (1,560 m), from topographic map. Feb. 24, 1943, to Sept. 30, 1972, at site 1.7 mi (2.7 km) downstream at different datum. Prior to Feb. 24, 1943, nonrecording gage and Cipolletti weir at site 3.2 mi (5.1 km) downstream at different datum.

REMARKS.--Records poor. No regulation; occasional diversion above station.

COOPERATION.--Records were furnished by city of Los Angeles, Department of Water and Power.

AVERAGE DISCHARGE.--46 years, 1.64 ft³/s (0.046 m³/s), 1,190 acre-ft/yr (1.47 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9.6 ft³/s (0.27 m³/s) June 16, 1969, gage height, 1.65 ft (0.503 m), site and datum then in use; no flow at times in some years.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	1.7	1.6	1.6	1.6	1.5	1.7	1.6	1.2	1.2	.88	.95
2	1.7	1.7	1.6	1.6	1.6	1.5	1.7	1.6	1.2	1.2	.84	.95
3	1.7	1.6	1.6	1.6	1.6	1.5	1.7	1.6	1.2	1.2	.58	.95
4	1.7	1.6	1.6	1.6	1.6	1.5	1.7	1.6	1.2	1.2	.58	.95
5	1.7	1.6	1.6	1.6	1.6	1.5	1.7	1.6	1.3	1.1	.58	1.1
6	1.7	1.6	1.6	1.6	1.6	1.5	1.7	1.6	1.3	1.1	.64	1.1
7	1.7	1.6	1.6	1.6	1.6	1.5	1.7	1.6	1.3	1.1	.71	1.1
8	1.7	1.6	1.6	1.6	1.6	1.5	1.7	1.6	1.3	1.1	.77	1.1
9	1.7	1.6	1.6	1.7	1.7	1.5	1.7	1.6	1.3	1.1	.77	1.1
10	1.7	1.6	1.6	1.7	1.7	1.5	1.7	1.5	1.3	1.1	.77	1.1
11	1.7	1.6	1.6	1.7	1.7	1.5	1.7	1.5	1.3	1.1	.77	1.1
12	1.7	1.6	1.6	1.7	1.7	1.5	1.7	1.5	1.3	1.1	.81	1.1
13	1.7	1.6	1.6	1.7	1.7	1.5	1.7	1.5	1.3	1.2	.81	1.1
14	1.7	1.6	1.6	1.7	1.7	1.5	1.7	1.5	1.3	1.2	.84	1.1
15	1.7	1.6	1.6	1.7	1.7	1.5	1.7	1.5	1.3	1.2	.92	1.1
16	1.7	1.6	1.6	1.7	1.7	1.5	1.7	1.5	1.3	1.2	.92	1.1
17	1.7	1.6	1.6	1.7	1.6	1.5	1.7	1.5	1.3	1.1	.92	1.1
18	1.7	1.6	1.6	1.7	1.6	1.5	1.7	1.5	1.3	1.1	.92	1.1
19	1.7	1.6	1.6	1.7	1.6	1.5	1.7	1.5	1.3	1.1	.92	1.2
20	1.7	1.6	1.6	1.7	1.6	1.5	1.7	1.5	1.3	1.1	.92	1.2
21	1.7	1.6	1.6	1.7	1.6	1.5	1.7	1.5	1.2	.88	.92	1.2
22	1.7	1.6	1.6	1.7	1.6	1.5	1.7	1.5	1.2	.88	.92	1.2
23	1.7	1.6	1.6	1.6	1.6	1.5	1.7	1.5	1.2	.88	.92	1.2
24	1.7	1.6	1.5	1.6	1.6	1.5	1.7	1.5	1.2	.84	.92	1.2
25	1.7	1.6	1.5	1.6	1.6	1.5	1.7	1.5	1.2	.84	.92	1.2
26	1.7	1.6	1.5	1.6	1.6	1.5	1.7	1.5	1.2	.84	1.1	1.2
27	1.7	1.6	1.5	1.6	1.6	1.5	1.7	1.4	1.2	.84	1.1	1.2
28	1.7	1.6	1.5	1.6	1.6	1.5	1.7	1.3	1.2	.88	1.1	1.2
29	1.7	1.6	1.5	1.6	1.6	1.5	1.7	1.3	1.2	.88	1.1	1.2
30	1.7	1.6	1.5	1.6	---	1.5	1.7	1.2	1.2	.88	.99	1.2
31	1.7	---	1.5	1.6	---	1.5	---	1.2	---	.88	.95	---
TOTAL	52.7	48.2	48.8	51.0	47.2	46.5	51.0	46.3	37.6	32.32	26.81	33.60
MEAN	1.70	1.61	1.57	1.65	1.63	1.50	1.70	1.49	1.25	1.04	.86	1.12
MAX	1.7	1.7	1.6	1.7	1.7	1.5	1.7	1.6	1.3	1.2	1.1	1.2
MIN	1.7	1.6	1.5	1.6	1.6	1.5	1.7	1.2	1.2	.84	.58	.95
AC-FT	105	96	97	101	94	92	101	92	75	64	53	67
CAL YR 1975	TOTAL 595.40	MEAN 1.63	MAX 1.8	MIN 1.5	AC-FT 1180							
WTR YR 1976	TOTAL 522.03	MEAN 1.43	MAX 1.7	MIN .58	AC-FT 1040							

OWENS LAKE BASIN

10271210 BISHOP CREEK BELOW POWERPLANT NO. 6, NEAR BISHOP, CA

LOCATION.--Lat 37°20'59", long 118°27'41", in SE¼SE¼ sec.9, T.7 S., R.32 E., Inyo County, below powerplant No. 6 tailrace, and 3.6 mi (5.8 km) west of Bishop.

DRAINAGE AREA.--104 mi² or 269 km² (natural flow).

PERIOD OF RECORD.--October 1936 to current year. Monthly and yearly mean discharges prior to October 1969, published in WSP 2127.

GAGE.--None.

REMARKS.--Flow regulated for power development by South Lake, Lake Sabrina, and Intake No. 2 Reservoir, combined capacity, 20,660 acre-ft (25.5 hm³) and many powerhouses. Records for "actual flow" include Bishop Creek above powerplant No. 6 tailrace and Bishop Creek powerplant No. 6 conduit. Records for "natural flow" include "actual flow" of Bishop Creek below powerplant No. 6, Abelour ditch near Bishop, minus Birch-McGee diversion to Bishop Creek powerplant near Bishop, and the change in contents and evaporation for South Lake, Lake Sabrina, and Intake No. 2 Reservoir.

COOPERATION.--Records furnished by Southern California Edison Co., and reviewed by the Geological Survey, in connection with a Federal Power Commission Project.

AVERAGE DISCHARGE (Actual flow).--41 years, 98.5 ft³/s (2.790 m³/s), 71,360 acre-ft/yr (88.0 hm³/yr).
(Natural flow).--41 years, 105 ft³/s (2.974 m³/s), 76,070 acre-ft/yr (93.8 hm³/yr).

EXTREMES (ACTUAL FLOW) FOR PERIOD OF RECORD (SINCE 1970).--Maximum daily discharge, 337 ft³/s (9.54 m³/s) June 28, 1973; minimum daily, 38 ft³/s (1.08 m³/s) Mar. 30, 1976.

EXTREMES (ACTUAL FLOW) FOR CURRENT YEAR.--Maximum daily discharge, 116 ft³/s (3.29 m³/s) Oct. 1; minimum daily, 38 ft³/s (1.08 m³/s) Mar. 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	77	64	91	51	47	41	54	59	62	106	79
2	96	74	62	101	51	47	43	53	61	62	102	81
3	84	72	49	96	50	47	44	57	63	62	87	80
4	86	73	49	79	52	45	43	56	61	62	80	82
5	86	73	50	72	48	46	40	55	59	60	76	82
6	85	73	51	71	47	44	39	55	59	60	71	79
7	87	72	50	70	52	45	41	61	59	62	71	78
8	85	73	51	69	51	46	39	71	59	60	75	78
9	88	72	50	71	46	45	39	72	59	60	79	78
10	88	71	52	70	46	44	41	61	60	60	81	85
11	88	71	66	71	47	44	40	56	68	60	81	85
12	89	71	76	71	49	43	40	61	63	60	80	73
13	89	72	76	70	66	43	40	67	58	61	79	74
14	87	72	75	71	77	42	41	72	60	60	79	76
15	86	72	76	71	70	42	42	72	59	62	79	80
16	86	73	76	70	59	42	49	73	58	76	78	77
17	86	72	77	59	43	41	59	73	63	70	78	76
18	86	72	76	58	43	41	52	75	64	66	79	74
19	86	73	76	58	43	40	41	66	61	65	80	75
20	86	72	77	59	43	39	50	68	66	66	80	74
21	85	72	76	57	43	39	42	65	66	64	75	79
22	85	73	77	57	43	40	45	63	62	62	81	71
23	88	70	83	56	43	40	49	61	60	67	79	73
24	88	71	92	56	43	40	46	52	60	68	81	70
25	88	71	91	56	43	40	45	56	60	66	80	71
26	92	71	77	58	41	40	48	58	60	66	80	71
27	88	71	77	55	43	40	43	60	59	69	72	69
28	88	71	78	52	44	41	43	61	58	75	80	69
29	89	71	77	51	46	39	45	60	62	80	77	74
30	87	72	77	51	---	38	50	61	60	86	80	93
31	86	---	82	52	---	40	---	63	---	99	80	---
TOTAL	2734	2163	2166	2049	1423	1310	1320	1938	1826	2058	2486	2306
MEAN	88.2	72.1	69.9	66.1	49.1	42.3	44.0	62.5	60.9	66.4	80.2	76.9
MAX	116	77	92	101	77	47	59	75	68	99	106	93
MIN	84	70	49	51	41	38	39	52	58	60	71	69
AC-FT	5420	4290	4300	4060	2820	2600	2620	3840	3620	4080	4930	4570
(†)	3010	2500	2170	2160	1970	2140	2400	6830	5850	5390	3310	3820
CAL YR 1975	TOTAL	40209	MEAN 110	MAX 183	MIN 49	AC-FT 79750	†72220					
WTR YR 1976	TOTAL	23779	MEAN 65.0	MAX 116	MIN 38	AC-FT 47170	†41550					

† Computed natural flow, in acre-feet.

10276000 BIG PINE CREEK NEAR BIG PINE, CA

LOCATION.--Lat 37°08'42", long 118°18'52", in SW¼SW¼SE¼ sec.24, T.9 S., R.33 E., Inyo County, on left bank 0.3 mi (0.5 km) downstream from Little Pine Creek, 0.5 mi (0.8 km) downstream from powerhouse No. 3, and 2.2 mi (3.5 km) southwest of Big Pine.

DRAINAGE AREA.--39.0 mi² (101.0 km²).

PERIOD OF RECORD.--November 1907 to February 1911, January 1920 to current year; combined records of creek and diversions, June 1930 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734.

GAGE.--Water-stage recorder and Parshall flume since April 1949 on creek; water-stage recorder and Parshall flume on each diversion. Altitude of creek gage is 4,500 ft (1,372 m), from topographic map. Prior to January 1923, nonrecording gage at same site and datum. Diversion gages at different datum.

REMARKS.--Records poor. No regulation above station. Diversions above station for power and irrigation. At times since 1962 discharge from Little Pine Creek has been spread in nearby meadows and does not reach gage as surface flow. For records of combined discharge of Big Pine Creek and Giroux ditches which divert above station, see following page.

COOPERATION.--Records were furnished by city of Los Angeles, Department of Water and Power.

AVERAGE DISCHARGE.--Combined creek and diversions: 46 years (water years 1931-76), 40.8 ft³/s (1.155 m³/s), 29,560 acre-ft/yr (36.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Creek only: Maximum discharge, 458 ft³/s (13.0 m³/s) July 3, 1932, gage height, 6.55 ft (1.996 m); minimum daily, no flow Dec. 3-12, 1935.
Combined creek and diversions: Maximum discharge, 458 ft³/s (13.0 m³/s) July 3, 1932; minimum daily, 6.4 ft³/s (0.181 m³/s) Dec. 11, 12, 1935.

EXTREMES FOR CURRENT YEAR.--Creek only: Maximum daily discharge, 165 ft³/s (4.67 m³/s) Sept. 11; minimum daily, 7.9 ft³/s (0.22 m³/s) Feb. 6, Mar. 19, 23.
Combined creek and diversions: Maximum daily discharge, 173 ft³/s (4.90 m³/s) Sept. 11; minimum daily, 11 ft³/s (0.31 m³/s) on several days in February, March, and April.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	15	12	9.3	9.5	9.3	14	15	34	28	58	34
2	14	15	12	9.8	9.5	8.5	14	17	37	28	53	34
3	14	14	11	10	9.8	8.7	12	17	34	30	46	35
4	13	13	12	11	9.5	9.3	10	16	32	33	41	32
5	13	13	12	11	9.8	10	9.5	17	33	34	38	33
6	12	13	12	9.5	7.9	9.0	9.0	16	33	43	37	30
7	14	13	12	9.5	11	9.0	9.3	16	36	52	35	26
8	13	14	12	9.5	11	9.0	9.3	16	30	52	33	25
9	12	14	11	9.5	10	8.7	8.7	18	26	52	35	25
10	11	14	11	9.5	9.8	9.0	8.7	18	24	54	38	53
11	12	13	12	9.5	9.5	8.7	8.7	21	23	61	37	165
12	11	14	12	9.5	9.3	8.5	8.7	24	23	62	37	110
13	11	14	11	9.8	9.5	8.5	10	27	23	60	37	62
14	10	14	11	9.8	9.5	8.5	11	35	27	58	37	43
15	13	14	11	9.8	9.3	8.5	9.8	38	32	55	27	33
16	16	14	11	9.8	9.0	8.7	8.5	39	42	83	21	28
17	16	14	11	9.8	9.0	8.7	8.7	41	44	101	18	24
18	15	9.8	11	9.5	8.7	8.7	9.0	35	44	67	17	22
19	15	12	11	9.3	8.7	7.9	8.7	29	46	70	15	20
20	15	13	11	9.8	8.2	8.2	8.7	29	45	59	14	20
21	15	13	11	9.8	8.5	8.5	9.8	29	39	60	14	20
22	14	12	11	9.8	8.5	8.5	11	25	31	59	17	19
23	14	12	11	9.8	8.5	7.9	11	30	28	62	17	19
24	14	13	11	9.8	8.2	9.5	12	35	29	65	18	19
25	14	12	11	9.5	9.0	9.0	13	31	31	69	20	18
26	15	12	11	9.3	9.0	9.3	13	36	33	64	21	18
27	15	12	11	9.5	9.0	9.3	12	36	34	71	24	17
28	15	12	11	9.5	9.0	9.0	11	36	35	114	28	16
29	15	12	11	9.5	8.7	9.0	11	34	32	103	31	21
30	15	14	9.8	9.5	---	9.0	12	31	32	74	35	32
31	15	---	9.0	9.5	---	13	---	31	---	63	37	---
TOTAL	426	393.8	346.8	300.7	266.9	277.4	312.1	838	992	1886	936	1053
MEAN	13.7	13.1	11.2	9.70	9.20	8.95	10.4	27.0	33.1	60.8	30.2	35.1
MAX	16	15	12	11	11	13	14	41	46	114	58	165
MIN	10	9.8	9.0	9.3	7.9	7.9	8.5	15	23	28	14	16
AC-FT	845	781	688	596	529	550	619	1660	1970	3740	1860	2090
CAL YR 1975	TOTAL	11059.0	MEAN 30.3	MAX 183	MIN 7.4	AC-FT 21940						
WTR YR 1976	TOTAL	8028.7	MEAN 21.9	MAX 165	MIN 7.9	AC-FT 15920						

10277400 OWENS RIVER BELOW TINEMAHA RESERVOIR, NEAR BIG PINE, CA
(National stream-quality accounting network station)

LOCATION.--Lat 37°03'15", long 118°13'33", in SW¼NE¼ sec.26, T.10 S., R.34 E., Inyo County, about 100 ft (30 m) west of center of dam, 8.4 mi (13.5 km) southeast of Big Pine.

DRAINAGE AREA.--1,964 mi² (5,087 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year. Since November 1951 in files of city of Los Angeles, Department of Water and Power as Owens River at Tinemaha Dam.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 3,860 ft (1,177 m), from topographic map.

REMARKS.--Records poor. Flow regulated since 1941 by Lake Crowley, capacity, 183,500 acre-ft (226 km³) and several small reservoirs, combined capacity, 41,400 acre-ft (51.0 km³). Diversions from both main stream and tributaries. Water imported from Mono Basin since 1941 for diversion to Los Angeles Aqueduct which diverts 4 mi (6 km) downstream.

COOPERATION.--Records were furnished by city of Los Angeles, Department of Water and Power.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 795 ft³/s (22.5 m³/s) Sept. 22, 1976; minimum daily, 5.0 ft³/s (0.14 m³/s) Sept. 15, 16, 25-30, 1976.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	701	250	592	405	651	398	503	503	449	550	698	678
2	698	250	592	403	651	398	505	503	449	550	706	681
3	698	250	587	403	651	401	505	503	495	550	706	678
4	701	250	597	403	654	401	503	476	548	548	706	681
5	701	250	605	403	651	401	503	447	548	548	709	681
6	690	459	603	401	648	401	503	447	548	548	704	681
7	678	600	603	401	645	401	503	447	545	535	704	681
8	673	600	603	401	561	401	503	447	545	426	704	681
9	667	603	603	401	505	401	500	447	545	471	701	684
10	665	605	600	401	508	302	500	452	548	510	698	611
11	659	603	654	403	505	450	500	454	550	530	692	485
12	659	605	698	403	500	498	500	454	550	545	701	485
13	659	605	698	401	498	498	500	454	550	550	695	566
14	662	605	698	403	498	500	500	454	548	543	701	662
15	662	603	695	403	500	498	500	454	550	566	701	5.0
16	665	600	684	401	500	500	498	454	553	579	695	5.0
17	426	603	687	401	503	500	500	454	558	603	667	459
18	250	603	687	401	505	503	500	454	556	624	648	698
19	250	603	632	398	508	503	500	452	553	651	645	698
20	248	600	600	401	510	503	500	449	550	659	654	695
21	250	600	603	403	508	503	500	449	550	665	665	737
22	250	600	603	403	508	503	500	447	548	667	670	795
23	250	600	603	401	503	503	500	447	548	667	673	781
24	250	600	605	401	503	503	503	449	548	673	673	398
25	252	600	603	401	459	503	503	449	545	678	676	5.0
26	252	600	603	403	403	500	503	449	545	684	678	5.0
27	252	600	603	403	403	498	503	447	545	687	678	5.0
28	252	600	600	401	401	500	505	449	545	692	678	5.0
29	250	597	600	528	401	503	500	449	545	692	678	5.0
30	250	597	493	645	---	503	500	452	553	704	678	5.0
31	250	---	405	651	---	503	---	449	---	701	678	---
TOTAL	14770	16141	19039	13077	15241	14380	15043	14141	16210	18596	21260	14236.0
MEAN	476	538	614	422	526	464	501	456	540	600	686	475
MAX	701	605	698	651	654	503	505	503	558	704	709	795
MIN	248	250	405	398	401	302	498	447	449	426	645	5.0
AC-FT	29300	32020	37760	25940	30230	28520	29840	28050	32150	36890	42170	28240
CAL YR 1975 TOTAL	195381.0			MEAN 535	MAX 781	MIN 5.0	AC-FT 387500					
WTR YR 1976 TOTAL	192134.0			MEAN 525	MAX 795	MIN 5.0	AC-FT 381100					

OWENS LAKE BASIN

10277400 OWENS RIVER BELOW TINEMAHA RESERVOIR, NEAR BIG PINE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1975 to current year.

CHEMICAL ANALYSES: Water year 1975 to current year.

SEDIMENT RECORDS: Water year 1975 to current year (partial-record station).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1975 to current year.

WATER TEMPERATURES: February 1975 to current year.

INSTRUMENTATION.--Specific conductance recorder since May 1975. Temperature recorder since February 1975.

REMARKS.--Aqueduct shut down Sept. 15-17, 24-30. Other periods of missing temperature data due to equipment malfunction.

COOPERATION.--Pesticide samples were collected by U.S. Geological Survey and analyzed by Environmental Protection Agency.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 344 micromhos Sept. 10, 1975; minimum, 193 micromhos June 11, 1975.

WATER TEMPERATURES: Maximum recorded, 25.5°C July 24, 1976; minimum, 1.5°C Jan. 2, 1976.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 333 micromhos Feb. 14, 19; minimum, 242 micromhos Oct. 1.

WATER TEMPERATURES: Maximum recorded, 25.5°C July 24; minimum, 1.5°C Jan. 2.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	TUR- BID- ITY (JTU)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)
OCT											
21...	1510	250	8.4	9	4	8	68	0	21	3.8	28
NOV											
18...	1520	600	8.6	9	80	84	71	0	21	4.4	28
DEC											
17...	1530	700	7.7	3	0	0	82	0	24	5.4	31
JAN											
20...	1515	400	8.8	9	0	0	74	0	22	4.6	28
FEB											
25...	1445	400	8.6	7	0	0	87	0	27	4.8	34
MAR											
31...	1410	500	8.0	12	82	0	74	0	22	4.6	31
APR											
27...	1505	500	8.3	9	19	17	73	0	22	4.5	33
MAY											
19...	1610	450	8.9	10	2	--	74	0	23	4.0	30
JUN											
21...	1515	553	8.4	10	9	51	73	--	22	4.3	33
JUL											
21...	1505	665	8.3	10	70	143	78	0	24	4.4	37
AUG											
25...	1500	673	8.0	10	15	62	74	0	23	4.1	35
SEPT											
22...	1630	805	8.5	8	4	14	76	0	23	4.5	34

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

10277400 OWENS RIVER BELOW TINEMAHA RESERVOIR, NEAR BIG PINE, CA--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTMBER 1976

DATE	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)
OCT 21...	46	1.5	3.6	95	0	78	.6	18	11	.4	16
NOV 18...	45	1.5	3.4	113	0	93	.5	24	11	.5	19
DEC 17...	44	1.5	4.2	119	0	98	3.8	27	13	.4	20
JAN 20...	44	1.4	3.6	123	0	101	.3	24	12	.5	20
FEB 25...	44	1.6	4.2	136	0	112	.5	33	14	.7	21
MAR 31...	46	1.6	4.1	135	0	111	2.2	23	14	.6	22
APR 27...	48	1.7	4.2	140	0	115	1.1	21	14	.6	21
MAY 19...	45	1.5	3.8	122	0	100	.2	26	13	.6	21
JUN 21...	48	1.7	3.8	--	--	--	--	18	13	.8	24
JUL 21...	49	1.8	4.5	144	0	118	1.2	19	16	.7	23
AUG 25...	49	1.8	4.1	145	0	119	2.3	16	16	.6	15
SEP 22...	48	1.7	4.3	138	0	113	.7	20	15	.6	14

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)
OCT 21...	172	149	.23	116	.02	--	--	--	--	2000
NOV 18...	162	167	.22	262	.06	.38	.44	1.9	.05	3300
DEC 17...	193	184	.26	365	.15	.59	.74	3.3	.05	720
JAN 20...	178	175	.24	192	.09	.58	.67	3.0	.06	11000
FEB 25...	200	206	.27	216	.01	.51	.52	2.3	.06	9900
MAR 31...	176	188	.24	238	.06	.34	.40	1.8	.09	22000
APR 27...	191	189	.26	258	.03	.29	.32	1.4	.04	5600
MAY 19...	182	181	.25	221	.04	2.0	2.0	9.0	.06	5700
JUN 21...	--	--	--	--	.07	.75	.82	3.6	.10	6300
JUL 21...	201	200	.27	361	.16	.18	.34	1.5	.15	3000
AUG 25...	177	185	.24	322	.20	.35	.55	2.4	.09	630
SEP 22...	194	183	.26	422	.01	.77	.78	3.5	.05	680

OWENS LAKE BASIN

10277400 OWENS RIVER BELOW TINEMAHA RESERVOIR, NEAR BIG PINE, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY....GENUS.....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
APR 27	1505	CHLOROPHYTA .CHLOROPHYCEAE ..CHLOROCOCCALES ...CHARACIACEAE....SCHROEDERIA.....OOCYSTACEAE.....ANKISTRODESMUS.....SCENEDESMACEAE.....SCENEDESMUS	GREEN ALGAE	71 210 500	1 4 9
		CHRYSOPHYTA .BACILLARIOPHYCEAE ..CENTRALES ...COSGINODISCACEAE # ...CYCLOTELLA # ...MELOSIRA ...STEPHANODISCUS ..PENNALES ...ACHNANTHACEAE ...ACHNANTHES ...CYMBELLACEAE ...EPITHEMIA ...FRAGILARIACEAE ...FRAGILARIA ...GOMPHONEMACEAE ...GOMPHONEMA ...NAVICULACEAE ...NAVICULA ...NITZSCHIACEAE ...NITZSCHIA ...SURIRELLACEAE ...SURIRELLA	DIATOMS CENTRIC PENNATE NAVICULOID	1,300 1,900 71 71 140 570 71 210 210 71	23 33 1 1 3 10 1 4 4 1
		.CHRYSOPHYCEAE ..CHRYSOMONADALES ...OCHROMONADACEAE....DINOBRYON	YELLOW-BROWN ALGAE	210	4
		TOTAL PHYTOPLANKTON		5,600	

See footnotes at end of table.

10277400 OWENS RIVER BELOW TINEMAHA RESERVOIR, NEAR BIG PINE, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY....GENUS.....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
MAY	1610	CHRYSTOPHYTA			
19		..BACILLARIOPHYCEAE	DIATOMS		
		..CENTRALES	CENTRIC		
		...COSCIDODISCACEAE			
		# ...CYCLOTILLA		1,200	22
		# ...MELOSIRA		1,400	25
		...STEPHANODISCUS		34	1
		..PENNALES	PENNATE		
		...ACHNANTHACEAE			
		...ACHNANTHES		67	1
		...COCCONEIS		240	4
		* ...RHOICOSPHEMIA			0
		...CYMBELLACEAE			
		...EPITHEMIA		100	2
		...DIATOMACEAE			
		* ...DIATOMA			0
		...FRAGILARIACEAE			
		# ...FRAGILARIA		1,100	19
		...GOMPHONEMATACEAE			
		...GOMPHONEMA		34	1
		...NAVICULACEAE	NAVICULOID		
		...NAVICULA		370	7
		...NITZSCHIACEAE			
		...NITZSCHIA		670	12
		..CHRYSTOPHYCEAE	YELLOW-BROWN ALGAE		
		..CHRYSOMONADALES			
		...OCHROMONADACEAE			
		...DINOBYRON		100	2
		CYANOPHYTA	BLUE-GREEN ALGAE		
		..MYXOPHYCEAE			
		..OSCILLATORIALES	FILAMENTOUS		
		...NOSTOCACEAE			
		...ANABAENA		300	5
		TOTAL PHYTOPLANKTON		5,700	
JUNE	1640	CHRYSTOPHYTA			
21		..BACILLARIOPHYCEAE	DIATOMS		
		..CENTRALES	CENTRIC		
		...COSCIDODISCACEAE			
		...CYCLOTILLA		760	12
		...MELOSIRA		410	7
		..PENNALES	PENNATE		
		...ACHNANTHACEAE			
		...ACHNANTHES		69	1
		...COCCONEIS		69	1
		...CYMBELLACEAE			
		...CYMBELLA		69	1
		...DIATOMACEAE			
		* ...DIATOMA			0
		...FRAGILARIACEAE			
		# ...FRAGILARIA		2,500	39
		...SYNEDRA		140	2
		...GOMPHONEMATACEAE			
		...GOMPHONEMA		140	2
		...NAVICULACEAE	NAVICULOID		
		...AMPHIPRORA		140	2
		# ...NAVICULA		1,100	17
		...NITZSCHIACEAE			
		# ...NITZSCHIA		960	15
		TOTAL PHYTOPLANKTON		6,300	

See footnotes at end of table.

10277400 OWENS RIVER BELOW TINEMAHA RESERVOIR, NEAR BIG PINE, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
		.CLASS ..ORDER ...FAMILY....GENUS.....SPECIES			
SEP 22	1630	CHLOROPHYTA	GREEN ALGAE		
		..CHLOROPHYCEAE			
		...CHLOROCOCCALES			
		....OOCYSTACEAE			
		*OOCYSTIS			0
		...VOLVOCALES			
		...CHLAMYDOMONADACEAE			
		....CHLAMYDOMONAS		23	3
		CHRYSTOPHYTA			
		..BACILLARIOPHYCEAE	DIATOMS CENTRIC		
		...CENTRALES			
		...COSCINODISCACEAE			
		....CYCLOTELLA		23	3
		#MELOSIRA		110	17
		...STEPHANODISCUS		46	7
		..PENNALES	PENNATE		
		...DIATOMACEAE			
		....DIATOMA		23	3
		...FRAGILARIACEAE			
		#FRAGILARIA		340	50
		*SYNEDRA			0
		...NAVICULACEAE	NAVICULOID		
...DIPLONEIS		23	3		
...NAVICULA		23	3		
...NITZSCHIAEAE					
...NITZSCHIA		46	7		
...SURIRELLACEAE					
....SURIRELLA		23	3		
TOTAL PHYTOPLANKTON				680	

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

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll	Chlorophyll	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight	^a (mg/m ²)	^b (mg/m ²)		
Jan. 20	36	4.2	3.2	6.3	0.1	160	Polyethylene strip
Feb. 25	34	4.2	3.8	1.1	0.1	360	Polyethylene strip
Aug. 28	28	3.3	2.5	0.0	0.0	0.0	Polyethylene strip

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)
OCT 21...	1510	30	2	28	0	0	1	18	18	0	<50	<49
JAN 20...	1515	24	4	20	<10	<9	1	0	0	0	<50	<48
APR 27...	1505	32	1	31	<10	<9	1	0	0	0	<50	<50
JUL 21...	1505	35	30	5	<10	<9	1	0	0	0	<50	<50

DATE	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)
OCT 21...	1	10	5	5	510	10	<100	<99	1	30	30
JAN 20...	2	<10	<6	4	490	20	<100	<93	7	70	70
APR 27...	0	10	5	5	880	70	<100	<96	4	50	50
JUL 21...	0	20	6	14	1500	60	<100	<95	5	60	30

DATE	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 21...	5	.0	.0	.0	--	--	0	50	0	50	--
JAN 20...	0	.0	.0	.0	0	0	0	40	10	30	2.4
APR 27...	0	.0	.0	.1	0	0	0	50	0	50	14
JUL 21...	30	.0	.0	.0	0	0	0	40	30	10	5.1

DATE	TIME	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ATRA-ZINE (UG/L)	ATRA-ZINE IN BOTTOM MATERI-AL (UG/ KG DRY SOLIDS)	TOTAL CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDE (UG/L)
NOV 18...	1520	ND	--	--	--	ND	--	ND	--	ND
JUN 21...	1530	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 25...	1500	ND	--	ND	--	ND	--	ND	--	ND

ND Material specifically analyzed for but not detected.

OWENS LAKE BASIN

10277400 OWENS RIVER BELOW TINEMAHA RESERVOIR, NEAR BIG PINE, CA--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)
NOV 18...	--	ND	--	ND	--	ND	--	ND	--	ND
JUN 21...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 25...	--	ND	--	ND	--	ND	--	ND	--	ND

DATE	ETHION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METH- OXY- CHLOR (UG/L)
NOV 18...	--	ND	--	ND	--	ND	--	ND	--	ND
JUN 21...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 25...	--	ND	--	ND	--	ND	--	ND	--	ND

DATE	METHOX- YCHLOR IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	SIMA- ZINE TOTAL (UG/L)	SIMA- ZINE IN BOTTOM MATERI- AL (UG/ KG DRY SOLIDS)	TOTAL TOX- APHENE (UG/L)
NOV 18...	--	ND	--	ND	--	ND	--	--	--	ND
JUN 21...	ND	ND	ND	ND	ND	ND	ND	--	ND	ND
AUG 25...	--	ND	--	ND	--	ND	--	ND	--	ND

DATE	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	2,4-D IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4,5-T (UG/L)	2,4,5-T IN BOTTOM MA- TERIAL (UG/KG)	TOTAL SILVEX (UG/L)	SILVEX IN BOTTOM MA- TERIAL (UG/KG)
NOV 18...	--	ND	--	--	--	--	--	--	--
JUN 21...	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 25...	--	ND	--	ND	--	ND	--	ND	--

ND Material specifically analyzed for but not detected.

10277400 OWENS RIVER BELOW TINEMAHA RESERVOIR, NEAR BIG PINE, CA--Continued

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	251	242	246	263	260	262	267	264	266	275	272	273
2	252	244	248	264	262	263	267	264	266	276	272	274
3	255	245	251	264	261	263	266	262	264	273	267	270
4	256	253	255	262	260	261	266	264	265	274	262	267
5	257	252	255	261	255	260	268	266	267	267	261	264
6	257	252	254	264	260	262	269	267	268	269	262	266
7	259	253	255	265	262	263	270	267	269	272	266	269
8	256	253	254	264	259	262	270	268	269	274	269	272
9	257	254	255	264	260	262	272	269	270	273	271	272
10	257	254	255	263	258	260	272	270	271	273	270	272
11	256	252	254	267	262	264	273	270	272	273	270	272
12	256	252	254	268	263	264	274	270	273	274	270	272
13	255	251	254	268	262	265	275	271	273	273	270	271
14	255	251	253	268	261	264	275	273	274	272	269	271
15	253	249	251	269	261	265	275	269	272	271	268	270
16	256	251	254	265	260	263	271	267	270	271	269	270
17	255	247	251	265	260	263	273	260	270	272	270	271
18	251	246	249	265	259	262	267	260	264	272	266	270
19	255	249	253	264	262	263	265	261	263	281	269	276
20	258	253	255	264	262	264	265	258	262	284	275	280
21	255	249	252	265	261	263	264	259	262	284	280	282
22	256	254	255	265	261	263	265	260	263	287	276	283
23	260	256	258	264	261	263	265	262	264	287	282	284
24	262	259	260	263	260	262	265	262	263	289	282	284
25	262	260	261	264	258	262	266	260	264	291	281	287
26	260	254	258	265	262	263	265	262	263	291	286	288
27	262	255	258	265	261	264	265	260	264	290	283	286
28	263	259	261	266	264	265	267	265	266	288	285	287
29	261	252	259	267	265	266	269	265	267	289	282	287
30	265	260	263	267	265	266	271	268	269	292	286	290
31	264	257	261	---	---	---	273	271	272	292	288	290
MONTH	265	242	255	269	255	263	275	258	267	292	261	276
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	295	291	292	275	258	264	296	290	293	298	292	295
2	297	292	294	264	257	260	294	287	291	298	294	296
3	297	291	295	312	254	280	295	288	291	298	295	297
4	298	293	295	314	307	311	296	292	294	300	294	298
5	295	291	293	318	310	313	297	293	295	301	297	299
6	290	287	289	316	305	310	297	291	295	301	296	299
7	291	290	291	310	302	306	296	292	294	302	297	300
8	290	288	289	316	302	308	296	294	295	301	297	299
9	292	289	291	314	304	308	299	294	296	301	298	299
10	291	287	290	315	300	305	300	296	298	300	297	299
11	294	290	292	304	299	302	300	297	299	304	299	301
12	304	293	295	303	300	302	299	295	298	305	299	302
13	306	297	301	309	301	303	299	298	298	306	293	301
14	333	298	310	306	299	303	299	296	297	303	293	300
15	324	306	312	307	299	303	298	293	296	305	300	303
16	321	309	317	308	298	302	298	296	297	305	291	300
17	327	320	323	304	299	301	300	297	298	301	284	295
18	327	323	324	303	299	301	300	295	297	299	291	296
19	333	306	326	305	299	303	297	293	296	298	277	294
20	306	274	283	308	304	306	298	295	296	296	287	292
21	296	281	287	307	302	305	298	294	296	295	291	293
22	293	282	289	306	293	301	299	295	297	296	288	293
23	295	287	292	300	291	294	299	296	297	295	284	293
24	300	291	297	302	295	299	301	292	297	297	293	295
25	294	287	291	298	294	296	303	295	297	296	291	294
26	296	284	288	298	292	295	306	297	300	296	293	295
27	286	269	277	297	293	295	301	294	300	294	280	290
28	275	253	261	295	291	294	299	295	297	294	290	292
29	267	255	259	294	292	293	298	295	296	297	294	295
30	---	---	---	296	290	294	297	294	296	298	291	296
31	---	---	---	295	285	293	---	---	---	301	295	298
MONTH	333	253	295	318	254	298	306	287	296	306	277	297

10277400 OWENS RIVER BELOW TINEMAHA RESERVOIR, NEAR BIG PINE, CA--Continued

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

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	303	293	300	314	295	303	295	286	291	304	298	301
2	305	296	302	310	300	304	297	292	294	305	298	302
3	306	292	300	311	301	306	301	293	297	305	298	302
4	308	292	303	312	307	310	302	293	298	303	296	301
5	307	295	303	313	305	309	302	296	299	304	297	299
6	310	295	306	309	300	307	304	292	300	297	289	292
7	313	292	305	303	294	299	301	294	299	299	292	295
8	313	295	304	299	296	298	303	295	299	302	297	299
9	309	296	302	298	289	295	303	294	298	301	299	300
10	312	303	309	294	287	291	303	295	299	303	294	299
11	315	300	309	296	287	291	302	296	299	293	270	279
12	307	298	303	292	284	288	304	296	299	277	258	268
13	311	304	308	293	288	290	302	296	299	290	277	283
14	309	303	307	295	288	292	304	298	301	291	281	285
15	307	300	302	298	292	296	304	298	301	---	---	---
16	310	299	304	300	290	295	311	303	307	---	---	---
17	308	293	299	302	291	297	310	299	305	---	---	---
18	307	291	299	301	294	298	305	303	304	296	294	295
19	307	295	302	299	292	296	305	301	304	300	294	297
20	305	291	298	298	294	296	305	302	304	304	299	301
21	319	291	298	306	299	303	306	303	305	303	299	301
22	314	297	305	309	303	307	307	303	305	304	297	303
23	305	298	301	308	300	304	305	299	302	305	301	303
24	308	294	299	303	295	300	303	297	300	---	---	---
25	302	293	298	302	296	300	301	295	300	---	---	---
26	310	295	301	303	295	299	303	293	299	---	---	---
27	303	295	299	302	293	298	301	296	299	---	---	---
28	306	296	300	300	289	295	303	299	301	---	---	---
29	305	297	301	290	283	286	303	298	301	---	---	---
30	306	298	302	290	282	286	302	297	300	---	---	---
31	---	---	---	293	285	289	303	298	301	---	---	---
MONTH	319	291	302	314	282	298	311	286	300	---	---	---
YEAR	333	242	287									

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	17.0	17.5	9.0	8.0	8.5	5.5	4.0	4.5	3.0	2.0	2.5
2	18.0	16.5	17.0	10.0	8.0	9.0	6.0	4.5	5.5	3.5	1.5	2.5
3	18.0	15.5	17.0	10.0	8.5	9.5	7.5	6.0	6.5	3.5	2.5	3.0
4	18.0	15.5	17.0	10.0	9.0	9.5	8.0	6.5	7.5	4.0	3.0	3.5
5	18.0	15.5	16.5	10.5	9.5	10.0	7.5	6.5	7.0	4.0	3.5	4.0
6	17.0	15.0	16.0	10.0	9.5	10.0	8.0	5.0	7.0	4.5	4.0	4.0
7	16.0	13.5	14.5	10.0	9.5	9.5	7.0	6.0	6.5	4.5	4.0	4.5
8	15.0	12.0	13.5	10.5	9.5	10.0	7.0	6.0	6.5	5.0	4.0	4.5
9	14.5	11.5	13.0	10.0	9.5	9.5	7.5	6.0	7.0	4.5	3.5	4.0
10	14.5	11.5	12.5	9.5	9.0	9.5	7.5	6.5	7.0	4.5	3.5	4.0
11	15.5	12.0	13.5	9.0	8.0	8.5	7.5	6.5	7.5	4.5	4.0	4.5
12	14.5	11.5	13.0	8.5	8.0	8.0	7.5	6.5	7.0	5.0	4.5	4.5
13	14.0	10.5	11.5	8.5	7.5	8.0	6.5	4.5	6.0	5.0	4.5	5.0
14	13.5	9.0	11.0	8.0	7.5	8.0	4.0	2.5	3.0	5.5	4.5	5.0
15	14.0	10.5	12.0	8.0	7.5	8.0	4.0	2.5	3.5	5.5	4.0	4.5
16	14.0	10.5	12.0	8.5	7.5	8.0	4.0	3.0	3.5	6.0	4.5	5.5
17	13.5	10.5	12.0	8.0	7.0	7.5	6.0	3.0	4.5	7.0	6.0	6.0
18	12.0	11.0	11.5	7.0	5.5	6.5	6.0	3.5	5.0	7.0	6.0	6.5
19	12.0	10.5	11.0	5.0	3.0	4.5	6.0	4.0	5.0	6.5	6.0	6.5
20	11.5	10.5	11.0	4.5	4.0	4.5	6.0	4.0	5.0	6.5	5.5	6.0
21	12.5	11.0	12.0	4.5	3.5	4.0	6.5	4.0	5.5	6.0	5.0	5.5
22	12.5	10.5	11.5	5.0	4.0	4.5	5.5	4.5	5.0	5.5	5.0	5.5
23	10.5	8.5	9.5	6.0	4.5	5.0	5.5	4.0	5.0	5.5	5.0	5.0
24	9.0	8.0	8.5	6.0	5.0	5.5	8.0	5.0	6.5	6.0	5.0	5.5
25	8.5	7.5	8.0	7.0	5.0	6.0	8.0	6.0	6.5	6.0	4.5	5.5
26	9.5	8.0	8.5	7.0	6.0	6.5	7.0	6.0	6.5	5.5	5.0	5.5
27	10.0	9.0	9.5	7.5	6.0	6.5	6.5	5.5	6.0	5.5	4.5	5.5
28	9.5	8.0	9.0	7.0	5.0	6.0	8.0	6.0	7.0	6.0	5.0	5.5
29	10.5	9.0	9.5	5.5	4.5	5.0	9.0	7.0	8.0	6.5	5.5	6.0
30	10.0	9.0	9.5	5.0	4.5	4.5	8.0	5.5	7.0	7.0	6.0	6.5
31	9.5	8.5	8.5	---	---	---	5.5	3.0	4.0	7.5	6.0	6.5
MONTH	18.0	7.5	12.0	10.5	3.0	7.5	9.0	2.5	6.0	7.5	1.5	5.0

10277400 OWENS RIVER BELOW TINEMAHA RESERVOIR, NEAR BIG PINE, CA--Continued

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

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT 21...	1510	250	13.2	20	14	74
NOV 18...	1520	600	5.6	41	66	82
DEC 17...	1530	700	5.3	6	11	81
JAN 20...	1515	400	6.4	14	15	91
FEB 25...	1445	400	7.2	21	23	85
MAR 31...	1410	500	12.2	46	62	80
APR 27...	1505	500	12.3	46	62	47
MAY 19...	1610	450	19.6	34	41	80
JUN 21...	1515	553	23.0	53	79	82
JUL 21...	1505	665	23.5	46	83	81
AUG 25...	1430	675	22.0	34	62	77
SEP 22...	1630	805	18.5	21	46	--

OWENS LAKE BASIN

10278300 LOS ANGELES AQUEDUCT AT OUTLET, AT SAN FERNANDO, CA

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

PERIOD OF RECORD.--Chemical analyses: Water year 1967 (partial-record station), water year 1968 to current year.

REMARKS.--Records of discharge furnished by Los Angeles Department of Water and Power.

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	HARD- NESS (CA, MG) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)
OCT 21...	332	--	17.0	2	9.0	1.3	88	26	5.9
NOV 30...	293	8.1	11.0	4	10.2	1.4	80	24	4.9
DEC 23...	394	8.0	8.0	4	8.4	3.4	80	24	4.9
JAN 22...	303	8.0	7.0	3	10.2	2.5	82	25	4.9
FEB 17...	295	7.6	7.0	3	10.2	1.9	82	24	5.4
MAR 22...	319	7.8	10.0	4	10.4	1.7	86	25	5.6
APR 20...	326	7.8	12.0	3	9.6	.8	88	26	5.9
MAY 17...	327	7.9	16.0	4	7.8	1.4	86	25	5.6
JUN 21...	324	8.1	19.0	2	8.2	.6	85	25	5.6
JUL 28...	329	8.2	23.5	2	7.6	1.6	84	25	5.4
AUG 30...	320	8.3	23.0	1	8.0	1.3	80	23	5.4
SEP 27...	329	--	--	2	--	1.5	84	25	5.4

DATE	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)
OCT 21...	35	45	1.6	3.5	118	21	15	.5	24
NOV 30...	28	42	1.4	3.2	108	18	13	.5	22
DEC 23...	26	40	1.3	2.6	103	20	12	.5	20
JAN 22...	31	44	1.5	3.1	110	19	13	.5	22
FEB 17...	30	43	1.4	3.4	110	18	13	.5	21
MAR 22...	30	42	1.4	3.3	115	23	15	.5	23
APR 20...	34	44	1.6	3.4	120	21	16	.5	25
MAY 17...	32	44	1.5	3.3	120	23	15	.5	23
JUN 21...	27	40	1.3	3.0	115	20	15	.5	21
JUL 28...	36	47	1.7	3.5	123	16	17	.6	22
AUG 30...	34	47	1.7	3.5	115	18	15	.6	21
SEP 27...	35	46	1.7	3.3	120	17	16	.6	19

10278300 LOS ANGELES AQUEDUCT AT OUTLET, AT SAN FERNANDO, CA--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED ORTHO, PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (P04) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT								
21...	.20	.12	.04	.12	10	310	20	<.1
NOV								
30...	.27	.08	.04	.12	10	330	200	<.1
DEC								
23...	.16	.12	.03	.09	10	320	100	<.1
JAN								
22...	.20	.08	.03	.09	10	380	100	<.1
FEB								
17...	.16	.12	.08	.25	10	340	300	--
MAR								
22...	.09	.00	.05	.15	40	390	40	<.1
APR								
20...	.20	.12	.07	.21	<10	420	80	.1
MAY								
17...	.22	.12	.10	.31	30	380	20	<.1
JUN								
21...	.22	.16	.04	.12	20	340	30	<.1
JUL								
28...	.11	.26	.15	.46	20	430	40	<.1
AUG								
30...	.11	.16	.08	.25	30	450	20	<.1
SEP								
27...	.09	.16	.04	.12	20	410	40	<.1

10286000 COTTONWOOD CREEK NEAR OLANCHA, CA

LOCATION.--Lat 36°26'20", long 118°04'48" (unsurveyed), Inyo County, Inyo National Forest, just downstream from intake to Cottonwood powerhouse, and 11.2 mi (18.0 km) north of Olancha.

DRAINAGE AREA.--40.1 mi² (103.9 km²).

PERIOD OF RECORD.--January 1906 to March 1911, January 1914 to current year; combined records of creek and flow through powerhouse, November 1938 to current year. Monthly discharge only January 1914 to September 1959, published in WSP 1314 and 1734.

REVISED RECORDS.--WDR CA-73-1: 1972.

GAGE.--Water-stage recorder and Cipolletti weir on powerhouse diversion. Altitude of gage is 4,660 ft (1,420 m), from topographic map. See WSP 1734 for history of changes prior to Oct. 31, 1938. Since May 15, 1969, supplementary gage at site 5.0 mi (8.0 km) downstream at different datum, and is presently used in computation of flow for the creek.

REMARKS.--Records poor. No regulation above station. Cottonwood powerhouse, maximum capacity, 22 ft³/s (0.623 m³/s) has diverted since Nov. 13, 1908. Discharge figures for creek only are estimated by correlation with station 3.0 mi (4.8 km) downstream at the Los Angeles Aqueduct. For records of combined discharge of Cottonwood Creek and powerhouse, see following page.

COOPERATION.--Records were furnished by city of Los Angeles, Department of Water and Power.

EXTREMES FOR PERIOD OF RECORD.--Creek only: Maximum discharge, 520 ft³/s (14.7 m³/s) June 3, 1969, gage height, unknown; no flow for periods in some years.
Combined flow: Maximum discharge, 520 ft³/s (14.7 m³/s) June 3, 1969; minimum daily, 1.0 ft³/s (0.028 m³/s) July 22, 23, 1961.

EXTREMES FOR CURRENT YEAR.--Creek only: Maximum daily discharge, 70 ft³/s (1.98 m³/s) Sept. 10; minimum daily, 0.20 ft³/s (0.006 m³/s) on many days.
Combined flow: Maximum daily discharge, 82 ft³/s (2.32 m³/s) Sept. 10; minimum daily, 3.1 ft³/s (0.088 m³/s) Aug. 31, Sept. 1, 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	.20	.20	.20	.20	.20	.20	1.0	.50	.20	.30	.20
2	.20	.20	.20	.20	.20	2.2	.20	.20	.20	.20	.20	.20
3	.20	.20	.20	.20	.20	1.6	.20	.20	.20	.20	.20	.20
4	.20	5.5	.20	.20	.20	.20	.20	.20	.20	.20	.30	.20
5	.20	6.5	.20	.20	.20	.20	.20	.50	.20	.20	.20	.20
6	.20	6.5	.20	.20	.20	.20	.30	.40	.20	.20	.20	.20
7	.20	6.5	.20	.20	.20	.20	.40	.20	.20	.20	.20	.20
8	.20	4.0	.20	.20	.20	.20	.20	.30	.20	.20	.20	.20
9	.20	.20	.20	.20	.20	.20	.20	1.0	.20	.20	.20	.20
10	.20	.20	.20	.20	.20	.20	.20	3.0	.20	.20	.20	70
11	.20	.20	.20	.20	.20	.20	.40	10	.20	.20	.20	25
12	.20	.20	.20	.20	.20	.20	.20	14	.20	.20	.20	10
13	.20	.20	.20	.20	.20	.20	.20	14	.20	.20	.20	7.0
14	.20	.20	.20	.20	.20	.20	.20	10	.20	.20	.20	5.0
15	.20	.20	.20	.20	.20	.20	.20	9.0	.20	.20	.20	1.0
16	.20	.20	.20	.20	.20	.20	.20	8.0	.20	.20	.20	.50
17	.20	.20	.20	.20	.20	.20	.20	7.0	.20	.20	.20	.50
18	.20	.20	.20	.20	.20	.20	.20	5.0	.20	.20	.20	.50
19	.20	.20	.20	.20	.20	.20	.20	8.0	4.0	1.3	.20	.50
20	.20	.20	.20	.20	.20	.20	.40	4.0	.20	.20	.20	.50
21	.20	.20	.20	.20	.20	.20	.30	4.0	.20	.20	.20	.50
22	.20	.20	.20	.20	.20	.20	.30	3.0	.20	.20	.20	.50
23	.20	.20	.20	.20	.20	.20	1.5	2.0	.20	.20	.20	.50
24	.20	.20	.20	.20	.20	.20	.20	1.0	.20	.20	.20	.50
25	.20	.20	.20	.20	.20	.20	.40	.50	.20	.20	.20	.50
26	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.50
27	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20
28	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20
29	.20	.20	.20	.20	.20	.20	.80	.40	.20	.20	.20	2.0
30	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	1.0
31	.20	---	.20	.20	---	.20	---	.20	---	.20	.20	---
TOTAL	6.20	34.00	6.20	6.20	5.80	10.20	9.40	103.70	7.40	6.20	6.40	128.70
MEAN	.20	1.13	.20	.20	.20	.33	.31	3.35	.25	.20	.21	4.29
MAX	.20	6.5	.20	.20	.20	2.2	1.5	14	1.3	.20	.30	70
MIN	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20
AC-FT	12	67	12	12	12	20	19	206	15	12	13	255
CAL YR 1975 TOTAL	2383.50		MEAN 6.53	MAX 89	MIN .20	AC-FT 4730						
WTR YR 1976 TOTAL	330.40		MEAN .90	MAX 70	MIN .20	AC-FT 655						

10286000 COTTONWOOD CREEK NEAR OLANCHA, CA--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF COTTONWOOD CREEK AND
POWERHOUSE NEAR OLANCHA, CA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	6.8	5.9	4.2	4.2	5.2	8.5	14	16	5.7	11	3.1
2	5.9	6.8	5.2	4.2	4.2	3.6	8.7	13	15	5.7	9.0	3.1
3	5.9	6.8	4.7	4.2	4.2	4.5	10	13	14	5.4	7.6	4.0
4	5.9	6.2	4.2	4.2	4.2	4.7	9.4	12	13	5.4	7.7	5.2
5	5.7	6.5	4.5	4.7	4.0	5.2	10	12	13	4.9	6.2	8.5
6	5.7	6.5	4.2	4.7	3.5	5.2	12	12	13	4.9	5.9	7.9
7	6.8	6.5	4.5	4.5	4.5	5.2	12	12	12	4.5	5.7	6.2
8	7.3	6.1	4.5	4.5	4.9	5.2	11	17	12	4.2	5.4	5.2
9	6.8	5.4	4.2	4.5	4.9	5.2	8.7	19	12	4.0	5.2	4.9
10	6.5	7.0	4.2	4.5	4.7	5.2	9.4	23	12	3.8	4.9	82
11	6.8	5.9	4.2	4.5	4.7	4.9	8.7	30	13	3.8	4.7	43
12	7.0	6.5	4.2	4.5	4.9	4.9	7.6	31	13	3.5	4.7	28
13	6.8	5.9	4.0	4.5	4.9	5.2	7.6	33	12	3.5	4.7	25
14	6.8	7.0	3.3	4.5	4.9	4.7	7.0	28	11	3.5	4.7	24
15	6.8	7.0	4.0	4.2	4.7	5.4	6.5	29	10	3.5	4.7	19
16	6.5	7.0	4.0	4.2	4.7	5.7	5.9	28	10	8.2	4.5	18
17	6.5	6.8	4.0	4.5	4.7	5.9	6.8	27	9.7	7.2	4.5	17
18	6.5	4.7	3.8	4.7	4.7	5.7	7.3	25	9.7	5.4	4.5	17
19	6.2	4.7	3.8	4.7	4.7	5.7	8.2	25	9.0	4.9	4.7	16
20	6.5	7.0	3.8	4.5	4.7	5.7	13	25	8.7	5.2	4.7	15
21	6.2	5.7	4.0	4.2	4.9	5.9	15	24	8.2	4.7	4.5	15
22	6.2	5.9	3.8	4.0	5.2	5.9	14	23	8.2	4.2	4.5	15
23	5.7	5.9	3.5	4.0	5.2	6.2	15	22	8.0	4.9	4.2	14
24	5.7	6.2	3.5	4.0	5.2	7.0	16	21	7.6	4.9	4.2	14
25	6.2	6.2	3.8	4.0	5.4	7.0	16	20	7.3	4.7	4.0	14
26	6.5	6.2	3.8	4.0	5.2	7.0	13	19	7.0	4.7	4.0	14
27	5.7	6.2	3.8	4.0	5.2	7.0	12	18	6.5	4.5	3.8	13
28	5.2	5.4	3.8	4.0	5.2	7.0	12	17	6.2	5.7	3.8	12
29	5.4	4.9	4.0	4.0	5.2	7.1	13	17	5.9	10	3.5	16
30	5.9	5.4	3.8	4.2	---	7.3	14	16	5.7	10	3.3	19
31	6.2	---	4.2	4.2	---	7.9	---	16	---	16	3.1	---
TOTAL	193.5	185.1	127.2	133.6	137.6	178.3	318.3	641	308.7	171.5	157.9	498.1
MEAN	6.24	6.17	4.10	4.31	4.74	5.75	10.6	20.7	10.3	5.53	5.09	16.6
MAX	7.3	7.0	5.9	4.7	5.4	7.9	16	33	16	16	11	82
MIN	5.2	4.7	3.3	4.0	3.5	3.6	5.9	12	5.7	3.5	3.1	3.1
AC-FT	384	367	252	265	273	354	631	1270	612	340	313	988
CAL YR 1975	TOTAL	5662.7	MEAN	15.5	MAX	97	MIN	3.3	AC-FT	11230		
WTR YR 1976	TOTAL	3050.8	MEAN	8.34	MAX	82	MIN	3.1	AC-FT	6050		

MONO LAKE BASIN

10287000 MONO LAKE NEAR MONO LAKE, CA

LOCATION.--Lat 37°58'46", long 119°08'11", in NW¼ sec.5, T.2 N., R.26 E., Mono County, on west bank 1 mi (2 km) south of town of Mono Lake.

DRAINAGE AREA.--785 mi² (2,033 km²).

PERIOD OF RECORD.--June 1912 to current year. Records prior to September 1934, published in WSP 765.

GAGE.--Nonrecording gage or reference point read once a week. Gage heights prior to October 1944 are converted to elevations above mean sea level in WSP 1314. Gage readings have been reduced to elevations above mean sea level.

REMARKS.--Since 1941 water diverted to Owens Lake basin via Mono tunnel, capacity, 200 ft³/s (5.66 m³/s).

COOPERATION.--Records were furnished by city of Los Angeles, Department of Water and Power.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 6,428.1 ft (1,959.28 m) July 18, 1919, present datum; minimum observed, 6,377.75 ft (1,943.938 m) Sept. 30, 1976.

ELEVATION, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation	Date	Elevation	Date	Elevation	Date	Elevation
Oct. 9	6379.33	Feb. 10	6379.10	June 3	6378.90	Aug. 12	6378.12
	31	Mar. 8	6379.13		17		19
Nov. 13	6379.26		23		24		30
	20	Apr. 1	6379.12	July 1	6378.46	Sept. 8	6377.86
	25		6		8		13
Dec. 10	6379.10	Apr. 20	6379.07		22		23
	22		28		29		30
Jan. 9	6379.06	May 13	6378.96	Aug. 5	6378.20		
	21		20		6		

10287070 MILL CREEK BELOW LUNDY LAKE, NEAR MONO LAKE, CA

LOCATION.--Lat 38°01'58", long 119°12'53", in SE¼NE¼ sec.16, T.2 N., R.25 E., Mono County, Inyo National Forest, at road crossing 1,500 ft (457 m) downstream from Lundy Lake Dam, and 4.9 mi (7.9 km) northwest of Mono Lake Post Office.

DRAINAGE AREA.--18.1 mi² or 46.9 km² (natural flow).

PERIOD OF RECORD.--October 1942 to current year. Monthly and yearly mean discharges prior to October 1969, published in WSP 2127.

GAGE.--Water-stage recorder and Parshall flume on creek. Altitude of gage is 7,760 ft (2,365 m), from topographic map.

REMARKS.--Flow regulated for power development by Lundy Lake, capacity, 3,820 acre-ft (4.71 hm³). Records for "actual flow" include Mill Creek, Lundy powerplant tailrace, and Upper Conway ditch. Records for "natural flow" are computed as the "actual flow" plus change in contents and evaporation of Lundy Lake.

COOPERATION.--Records were furnished by Southern California Edison Co. and reviewed by the Geological Survey, in connection with a Federal Power Commission Project.

AVERAGE DISCHARGE (Actual flow).--35 years, 28.3 ft³/s (0.801 m³/s), 20,500 acre-ft/yr (25.3 hm³/yr). (Natural flow).--35 years, 30.1 ft³/s (0.852 m³/s), 21,810 acre-ft/yr (26.9 hm³/yr).

EXTREMES (ACTUAL FLOW) FOR PERIOD OF RECORD (SINCE 1970).--Maximum daily discharge, 117 ft³/s (3.31 m³/s) June 14, 1973; no flow many days in 1971 and 1974.

EXTREMES (ACTUAL FLOW) FOR CURRENT YEAR.--Maximum daily discharge, 33 ft³/s (0.93 m³/s) June 4-8; minimum daily, 5.9 ft³/s (0.17 m³/s) Apr. 13.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	14	13	7.7	6.0	6.2	7.9	8.5	29	27	17	14
2	14	14	13	7.7	6.0	6.2	7.9	8.3	29	22	17	14
3	14	14	13	7.7	6.0	6.2	7.9	8.3	32	18	17	14
4	14	14	12	7.7	6.0	6.2	7.9	8.5	33	18	17	14
5	14	14	12	7.7	6.0	6.2	7.9	9.2	33	17	17	14
6	14	14	11	7.7	6.2	6.2	7.9	9.5	33	17	17	14
7	14	14	11	7.7	6.2	6.2	7.9	9.6	33	17	16	16
8	13	13	11	7.7	6.2	6.2	7.9	9.6	33	17	16	14
9	13	13	11	7.7	6.2	6.2	7.9	9.6	32	17	16	13
10	13	13	11	7.5	6.4	6.2	7.9	9.5	29	17	16	12
11	13	13	11	7.5	6.4	6.0	7.9	9.5	28	17	16	12
12	13	13	11	7.5	6.4	6.0	7.0	9.5	28	17	16	12
13	13	13	11	7.5	6.4	6.0	5.9	9.0	27	17	16	12
14	13	13	11	7.5	6.4	6.0	6.2	8.6	27	17	16	12
15	13	12	11	7.5	6.4	6.0	6.4	9.0	27	17	17	12
16	13	12	11	7.7	6.4	6.0	6.4	9.9	27	20	16	12
17	13	12	11	7.7	6.2	6.2	6.4	14	27	21	16	14
18	14	12	11	7.7	6.2	6.6	6.4	16	27	21	15	11
19	14	13	8.8	7.7	6.2	6.4	6.4	17	27	19	15	12
20	14	13	7.7	6.8	6.2	6.6	6.5	20	27	18	15	12
21	14	12	7.7	6.0	6.2	6.4	6.5	21	27	18	15	12
22	14	12	7.7	6.0	6.2	7.3	6.5	21	27	17	15	11
23	14	12	7.7	6.0	6.2	7.9	6.5	21	27	17	15	11
24	14	12	7.7	6.0	6.0	7.7	6.4	21	27	17	15	11
25	14	13	7.7	6.0	6.0	7.7	6.4	21	27	17	15	12
26	14	13	7.7	6.0	6.0	7.9	7.3	22	27	17	14	12
27	14	13	7.7	6.0	6.0	7.9	7.3	25	27	17	14	10
28	14	13	7.7	6.0	6.0	7.7	8.3	29	27	17	14	9.4
29	14	13	7.7	6.0	6.0	7.9	8.8	28	27	17	14	9.4
30	14	13	7.7	6.0	---	7.9	8.5	29	27	17	14	9.6
31	14	---	7.7	6.0	---	8.1	---	29	---	17	14	---
TOTAL	424	389	307.2	217.9	179.0	208.2	217.0	480.1	858	559	483	367.4
MEAN	13.7	13.0	9.91	7.03	6.17	6.72	7.23	15.5	28.6	18.0	15.6	12.2
MAX	14	14	13	7.7	6.4	8.1	8.8	29	33	27	17	16
MIN	13	12	7.7	6.0	6.0	6.0	5.9	8.3	27	17	14	9.4
AC-FT	841	772	609	432	355	413	430	952	1700	1110	958	729
(†)	864	752	593	433	378	421	448	1770	1450	1070	780	659

CAL YR 1975 TOTAL 10103.2 MEAN 27.7 MAX 84 MIN 6.7 AC-FT 20040 † 20500
WTR YR 1976 TOTAL 4689.8 MEAN 12.8 MAX 33 MIN 5.9 AC-FT 9300 † 9620

† Computed natural flow, in acre-feet.

MONO LAKE BASIN

10287290 RUSH CREEK BELOW AGNEW LAKE, NEAR JUNE LAKE, CA

LOCATION.--Lat 37°45'32", long 119°07'47", in NE¼SW¼ sec.20, T.2 S., R.26 E., Mono County, Inyo National Forest, 500 ft (152 m) downstream from Agnew Lake Dam, and 3.4 mi (5.5 km) southwest of town of June Lake.

DRAINAGE AREA.--23.3 mi² or 60.3 km² (natural flow).

PERIOD OF RECORD.--October 1951 to current year. Monthly and yearly mean discharges prior to October 1969, published in WSP 2127.

GAGE.--Water-stage recorder and Parshall flume on creek. Altitude of gage is 8,480 ft (2,585 m), from topographic map.

REMARKS.--Flow regulated for power development by Waugh, Gem, and Agnew Lakes, combined capacity, 23,420 acre-ft (28.9 hm³) and Rush Creek powerplant. "Actual flow" is total flow of Rush Creek below Agnew Lake and Rush Creek powerplant tailrace. "Natural flow" is the sum of "actual flow", change in contents and evaporation for Waugh, Gem, and Agnew Lakes.

COOPERATION.--Records furnished by Southern California Edison Co., and reviewed by the Geological Survey, in connection with a Federal Power Commission Project.

AVERAGE DISCHARGE (Actual flow).--25 years, 54.8 ft³/s (1.552 m³/s), 39,700 acre-ft/yr (49.0 hm³/yr).
(Natural flow).--25 years, 59.2 ft³/s (1.677 m³/s), 42,890 acre-ft/yr (52.9 hm³/yr).

EXTREMES (ACTUAL FLOW) FOR PERIOD OF RECORD (SINCE 1970).--Maximum daily discharge, 398 ft³/s (11.3 m³/s) Aug. 1, 1974; minimum daily, 0.90 ft³/s (0.025 m³/s) Aug. 31 to Sept. 2, 1976.

EXTREMES (ACTUAL FLOW) FOR CURRENT YEAR.--Maximum daily discharge, 66 ft³/s (1.87 m³/s) Dec. 5; minimum daily, 0.90 ft³/s (0.025 m³/s) Aug. 31 to Sept. 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	38	45	37	38	33	18	17	27	17	18	.90
2	22	39	63	36	31	30	18	17	30	17	18	.90
3	28	39	61	34	26	36	17	17	37	17	18	19
4	23	36	65	35	34	32	18	17	37	17	18	24
5	30	37	66	43	34	30	18	17	37	17	18	24
6	36	36	62	47	32	29	18	18	37	25	23	24
7	32	37	60	34	24	32	14	18	37	33	32	24
8	36	37	60	36	22	29	18	18	38	17	32	24
9	46	36	46	41	30	31	17	18	38	18	35	24
10	54	36	40	42	28	30	17	18	38	18	37	30
11	54	36	40	36	30	32	17	18	38	18	37	26
12	55	35	42	36	28	40	18	18	30	18	42	28
13	55	31	44	36	28	17	18	21	17	18	38	26
14	55	33	45	30	28	16	18	18	17	18	38	26
15	55	34	42	38	30	19	19	18	23	27	38	26
16	41	35	38	39	44	18	14	18	19	18	38	23
17	47	36	39	38	38	16	14	18	28	18	38	11
18	49	32	35	37	26	18	14	18	20	18	38	27
19	47	36	36	38	29	20	16	18	22	18	38	27
20	57	34	39	38	32	17	18	19	32	18	38	27
21	61	37	40	38	30	13	18	29	18	18	38	26
22	60	37	39	39	27	17	18	20	19	19	35	26
23	48	36	41	40	30	17	18	20	18	18	35	26
24	54	38	28	41	30	17	18	29	22	18	35	26
25	51	38	21	40	28	18	19	20	31	18	35	27
26	50	38	32	40	27	18	18	17	18	18	36	26
27	43	38	37	38	27	19	17	33	18	18	36	26
28	51	45	36	37	28	18	16	38	38	18	35	26
29	38	38	32	37	31	18	18	33	16	17	35	25
30	46	40	35	40	---	18	17	29	17	17	8.4	24
31	30	---	41	39	---	18	---	27	---	17	.90	---
TOTAL	1401	1098	1350	1180	870	716	516	654	817	581	961.30	699.80
MEAN	45.2	36.6	43.5	38.1	30.0	23.1	17.2	21.1	27.2	18.7	31.0	23.3
MAX	61	45	66	47	44	40	19	38	38	33	42	30
MIN	22	31	21	30	22	13	14	17	16	17	.90	.90
AC-FT	2780	2180	2680	2340	1730	1420	1020	1300	1620	1150	1910	1390
(†)	1080	565	216	184	148	378	1250	7310	2190	2010	1050	1640
CAL YR 1975 TOTAL	18883.00		MEAN 51.7	MAX 115	MIN 8.5	AC-FT 37450	† 43100					
WTR YR 1976 TOTAL	10844.10		MEAN 29.6	MAX 66	MIN .90	AC-FT 21510	† 18020					

† Computed natural flow, in acre-feet.

10287400 RUSH CREEK ABOVE GRANT LAKE, NEAR JUNE LAKE, CA

LOCATION.--Lat 37°48'23", long 119°06'29", in NE¼ sec.4, T.2 S., R.26 E., Mono County, on left bank in narrows, 0.6 mi (1.0 km) upstream from Grant Lake, and 2.7 mi (4.3 km) northwest of town of June Lake.

DRAINAGE AREA.--51.3 mi² (132.9 km²).

PERIOD OF RECORD.--December 1936 to current year. Prior to October 1959 monthly discharge only, published in WSP 1314 and 1734.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 7,200 ft (2,195 m), from topographic map.

REMARKS.--Records poor. Flow regulated by Gem Lake, Lake Agnew, Waugh Lake, combined capacity, 23,400 acre-ft (28.9 hm³) and by many natural lakes. No diversion above station.

COOPERATION.--Records were furnished by city of Los Angeles, Department of Water and Power.

AVERAGE DISCHARGE.--39 years (water years 1938-76), 81.2 ft³/s (2.30 m³/s), 58,830 acre-ft/yr (72.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,070 ft³/s (30.3 m³/s) July 14, 1967, gage height, 6.20 ft (1.890 m); minimum daily, 5.5 ft³/s (0.16 m³/s) Sept. 6-8, 14, 1954.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	55	55	52	48	44	31	38	55	30	37	23
2	44	55	74	48	46	42	31	41	55	29	37	19
3	38	56	77	48	42	43	31	43	54	28	35	16
4	35	55	77	46	39	45	31	44	54	28	33	17
5	35	52	76	51	43	42	31	45	54	28	33	24
6	39	52	74	52	46	41	31	43	54	30	31	31
7	47	52	74	52	44	41	31	43	55	37	37	32
8	47	52	74	47	39	43	30	42	57	41	41	33
9	53	52	69	49	39	42	30	42	57	35	43	33
10	70	52	53	55	42	41	30	43	57	32	45	37
11	86	51	54	52	41	42	30	46	57	31	45	40
12	77	51	55	47	41	42	31	50	57	31	46	39
13	74	52	55	47	41	32	32	54	47	31	49	39
14	72	49	57	45	41	31	33	62	38	31	46	39
15	73	49	57	45	41	31	33	61	37	31	49	39
16	65	49	52	48	49	32	31	62	37	32	47	39
17	58	52	51	49	52	33	29	61	37	33	48	33
18	63	50	49	49	43	33	28	59	38	32	48	33
19	65	50	47	47	41	31	30	55	39	31	48	37
20	69	49	48	47	39	31	32	52	40	29	49	38
21	75	52	51	47	40	31	34	53	42	29	49	37
22	75	52	51	47	41	28	35	58	41	29	48	37
23	70	52	51	49	39	31	35	51	38	29	46	37
24	70	51	49	50	39	31	36	50	37	29	46	37
25	69	52	39	51	39	31	38	56	37	30	46	36
26	69	48	38	51	39	31	38	51	37	30	46	37
27	70	49	45	50	39	31	37	52	36	29	41	36
28	64	52	47	48	39	31	34	67	39	31	40	36
29	64	54	45	47	41	31	35	66	40	35	41	37
30	61	55	45	49	41	31	35	64	31	32	39	38
31	56	---	50	49	---	31	---	59	---	34	34	---
TOTAL	1901	1552	1739	1514	1213	1100	973	1613	1357	967	1323	1009
MEAN	61.3	51.7	56.1	48.8	41.8	35.5	32.4	52.0	45.2	31.2	42.7	33.6
MAX	86	56	77	55	52	45	38	67	57	41	49	40
MIN	35	48	38	45	39	28	28	38	31	28	31	16
AC-FT	3770	3080	3450	3000	2410	2180	1930	3200	2690	1920	2620	2000
CAL YR 1975	TOTAL	28722	MEAN 78.7	MAX 255	MIN 25	AC-FT 56970						
WTR YR 1976	TOTAL	16261	MEAN 44.4	MAX 86	MIN 16	AC-FT 32250						

11012000 COTTONWOOD CREEK ABOVE TECATE CREEK, NEAR DULZURA, CA

LOCATION.--Lat 32°34'30", long 116°45'11", in NW¼NW¼SW¼ sec.26, T.18 S., R.2 E., San Diego County, on right bank 0.8 mi (1.3 km) upstream from confluence with Tecate Creek, and 5.1 mi (8.2 km) south of Dulzura.

DRAINAGE AREA.--310 mi² (803 km²).

PERIOD OF RECORD.--October 1936 to current year.

GAGE.--Water-stage recorder. Control is a rock outcropping 75 ft (23 m) downstream from gage. Datum of gage is 569.40 ft (173.55 m) above mean sea level (levels by International Boundary and Water Commission).

REMARKS.--Records good. Flow regulated by Morena Reservoir, capacity, 50,120 acre-ft (61.9 hm³) and Barrett Reservoir, capacity, 44,760 acre-ft (55.2 hm³). Water released from Barrett Reservoir through Dulzura conduit is diverted to Lower Otay Reservoir.

AVERAGE DISCHARGE.--40 years, 5.85 ft³/s (0.166 m³/s), 4,240 acre-ft/yr (5.23 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,340 ft³/s (123 m³/s) Feb. 7, 1937, gage height, 9.65 ft (2.941 m) from rating curve extended above 1,500 ft³/s (42.5 m³/s); no flow for part of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 61 ft³/s (1.73 m³/s) Feb. 9, gage height, 3.03 ft (0.924 m); no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	.60	.16					
2					0	2.0	.14					
3					0	7.1	.12					
4					0	5.3	.10					
5					0	2.7	.09					
6					0	2.1	.07					
7					.21	1.9	.06					
8					2.6	1.8	.05					
9					34	1.8	.03					
10					13	1.7	.03					
11					5.9	1.8	.01					
12					3.9	1.6	.02					
13					3.1	1.4	.66					
14					2.5	1.3	.61					
15					2.1	1.2	.61					
16					1.8	1.1	3.2					
17					1.5	1.0	1.1					
18					1.4	.90	.56					
19					1.2	.80	.36					
20					1.1	.70	.23					
21					.90	.63	.16					
22					.72	.56	.09					
23					.64	.50	.04					
24					.62	.45	.02					
25					.57	.40	.02					
26					.48	.36	.01					
27					.43	.32	0					
28					.40	.28	0					
29					.38	.25	0					
30					---	.22	0					
31		---			---	.19	---		---			---
TOTAL	0	0	0	0	79.45	42.96	8.55	0	0	0	0	0
MEAN	0	0	0	0	2.74	1.39	.29	0	0	0	0	0
MAX	0	0	0	0	34	7.1	3.2	0	0	0	0	0
MIN	0	0	0	0	0	.19	0	0	0	0	0	0
AC-FT	0	0	0	0	158	85	17	0	0	0	0	0
CAL YR 1975	TOTAL	86.15	MEAN .24	MAX	4.6	MIN 0	AC-FT 171					
WTR YR 1976	TOTAL	130.96	MEAN .36	MAX	34	MIN 0	AC-FT 260					

TIJUANA RIVER BASIN

11012500 CAMPO CREEK NEAR CAMPO, CA

LOCATION.--Lat 32°35'28", long 116°31'29", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.24, T.18 S., R.4 E., San Diego County, on left bank just upstream from bridge on State Highway 94, 3.5 mi (5.6 km) southwest of Campo.

DRAINAGE AREA.--85.0 mi² (220.2 km²), of which 3 mi² (8 km²) are in Mexico.

PERIOD OF RECORD.--October 1936 to current year.

GAGE.--Water-stage recorder and broad-crested weir. Datum of gage is 2,178.92 ft (664.135 m) above mean sea level. Prior to Dec. 1, 1954, at datum 1 ft (0.3 m) higher.

REMARKS.--Records fair. Flow partly regulated by small conservation reservoir since August 1956. No diversion above station.

AVERAGE DISCHARGE.--40 years, 1.59 ft³/s (0.045 m³/s), 1,150 acre-ft/yr (1.42 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 880 ft³/s (24.9 m³/s) Feb. 6, 1937, gage height, 4.80 ft (1.463 m), present datum, from rating curve extended above 110 ft³/s (3.12 m³/s) on basis of velocity mean-depth relation and cross-sectional area at control; no flow for part of most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7.4 ft³/s (0.21 m³/s) Sept. 10, gage height, 1.71 ft (0.521 m), no peak above base of 20.0 ft³/s (0.57 m³/s); no flow for part of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0		0	.05	.03	.02	.01			0
2		0	0		0	.03	.03	.02	.01			0
3		0	0		.01	.20	.04	.02	.01			0
4		0	0		0	.08	.07	.02	.01			0
5		0	0		.02	.07	.05	.02	.01			0
6		0	0		.04	.06	.06	.03	.01			0
7		0	0		0	.05	.06	.03	.01			0
8		0	0		.06	.05	.06	.02	0			0
9		0	0		.11	.05	.06	.02	0			0
10		0	0		.02	.05	.06	.02	.01			.19
11		0	0		.02	.02	.06	.01	.01			.23
12		0	.01		.01	0	.07	.01	.01			.02
13		0	0		0	.02	.10	.01	.01			.01
14		0	0		0	.02	.08	.01	0			0
15		0	0		0	.02	.12	.01	0			0
16		0	0		0	.03	.14	.01	0			.01
17		0	0		0	.05	.02	.01	0			0
18		0	0		0	.05	.02	.01	0			0
19		0	0		0	.05	.01	.01	0			0
20		0	0		0	.04	.01	.01	0			0
21		0	0		0	.05	.01	.01	0			0
22		0	0		0	.05	.02	.01	0			0
23		0	0		0	.04	.02	.02	0			0
24		0	0		0	.03	.02	.01	0			.01
25		0	0		0	.03	.02	.01	0			.01
26		0	0		0	.03	.02	.01	0			.01
27		.01	0		0	.03	.02	.01	0			.01
28		.14	0		0	.03	.02	.01	0			0
29		.07	0		0	.03	.02	.02	0			.01
30		0	0		---	.03	.02	.02	0			.01
31		---	0		---	.03	---	.02	---			---
TOTAL	0	.22	.01	0	.29	1.37	1.34	.47	.11	0	0	.52
MEAN	0	.007	.0003	0	.010	.044	.045	.015	.004	0	0	.017
MAX	0	.14	.01	0	.11	.20	.14	.03	.01	0	0	.23
MIN	0	0	0	0	0	0	.01	.01	0	0	0	0
AC-FT	0	.4	.02	0	.6	2.7	2.7	.9	.2	0	0	1.0
CAL YR 1975	TOTAL	8.47	MEAN .023	MAX .31	MIN 0	AC-FT 17						
WTR YR 1976	TOTAL	4.33	MEAN .012	MAX .23	MIN 0	AC-FT 8.6						

11013000 TIJUANA RIVER NEAR DULZURA, CA

LOCATION.--Lat 32°33'56", long 116°46'27", in E½ sec.33, T.18 S., R.2 E., San Diego County, on left bank 0.5 mi (0.8 km) downstream from confluence of Cottonwood and Tecate Creeks, and 5.5 mi (8.8 km) south of Dulzura.

DRAINAGE AREA.--481 mi² (1,246 km²), of which 70 mi² (181 km²) are in Mexico.

PERIOD OF RECORD.--October 1936 to current year.

GAGE.--Water-stage recorder. Datum of gage is 542.42 ft (165.330 m) above mean sea level (levels by International Boundary and Water Commission). Prior to Sept. 19, 1939, at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records fair. Flow regulated by Morena Reservoir, capacity, 50,210 acre-ft (61.9 hm³) and Barrett Reservoir, capacity, 44,760 acre-ft (55.2 hm³). Water diverted from Cottonwood Creek at Barrett Dam by Dulzura conduit to Jamul Creek.

AVERAGE DISCHARGE.--40 years, 9.42 ft³/s (0.267 m³/s), 6,820 acre-ft/yr (8.41 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,700 ft³/s (133 m³/s) Feb. 7, 1937, gage height, 8.50 ft (2.591 m) present datum, from rating curve extended above 300 ft³/s (8.50 m³/s) on basis of velocity, mean-depth, and area studies; no flow for part of most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 86 ft³/s (2.44 m³/s) Feb. 9, gage height, 3.55 ft (1.082 m); minimum daily, 0.03 ft³/s (0.001 m³/s) Aug. 24 to Sept. 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.09	.11	.11	.11	.12	.99	.83	.50	.31	.18	.09	.03
2	.09	.10	.11	.12	.12	2.4	.83	.55	.31	.18	.10	.03
3	.10	.11	.11	.12	.13	12	.80	.48	.31	.18	.11	.04
4	.10	.11	.11	.12	.14	9.9	.83	.42	.31	.17	.11	.08
5	.09	.10	.11	.12	.21	3.7	.96	.43	.28	.17	.11	.04
6	.09	.10	.10	.12	.24	2.9	1.0	.47	.28	.16	.11	.05
7	.10	.10	.10	.12	.25	2.5	.90	.54	.28	.14	.11	.05
8	.10	.10	.09	.12	.27	2.2	.91	.58	.24	.14	.11	.06
9	.10	.10	.09	.12	43	2.0	.84	.54	.22	.14	.11	.07
10	.10	.10	.09	.13	22	1.9	.83	.43	.22	.14	.12	7.3
11	.10	.10	.10	.12	8.5	2.1	.92	.40	.22	.14	.12	3.7
12	.10	.09	.12	.12	5.0	2.0	1.1	.37	.22	.13	.12	.29
13	.10	.09	.14	.13	3.7	1.8	1.3	.40	.22	.13	.11	.17
14	.10	.09	.14	.13	2.8	1.7	1.5	.40	.22	.13	.10	.15
15	.10	.09	.13	.13	2.3	1.6	1.3	.37	.22	.12	.11	.13
16	.10	.09	.14	.12	1.8	1.4	4.2	.34	.22	.12	.10	.13
17	.10	.09	.13	.12	1.6	1.4	2.0	.34	.21	.12	.09	.12
18	.10	.09	.12	.12	1.4	1.1	1.3	.37	.22	.11	.09	.11
19	.12	.09	.11	.12	1.2	1.1	1.1	.37	.22	.11	.05	.11
20	.12	.09	.11	.13	1.1	1.0	1.1	.40	.22	.11	.04	.10
21	.12	.09	.11	.13	.98	1.0	.70	.43	.23	.11	.04	.10
22	.12	.09	.11	.15	.82	.94	.79	.43	.22	.10	.04	.10
23	.12	.09	.10	.14	.75	.88	.74	.40	.22	.10	.04	.10
24	.11	.09	.11	.14	.78	.89	.70	.37	.22	.10	.03	.10
25	.11	.09	.11	.12	.83	.91	.70	.40	.22	.10	.03	.10
26	.12	.09	.11	.12	.84	.90	.74	.40	.21	.11	.03	.09
27	.12	.10	.12	.12	.86	.91	.58	.37	.20	.11	.03	.09
28	.11	.13	.12	.12	.86	.94	.47	.37	.20	.10	.03	.09
29	.11	.14	.11	.11	.84	.88	.50	.34	.19	.11	.03	.09
30	.11	.12	.11	.12	---	.85	.56	.34	.19	.11	.03	.09
31	.12	---	.11	.12	---	.85	---	.31	---	.10	.03	---
TOTAL	3.27	2.97	3.48	3.83	103.44	65.64	31.03	12.86	7.05	3.97	2.37	13.71
MEAN	.11	.099	.11	.12	3.57	2.12	1.03	.41	.24	.13	.077	.46
MAX	.12	.14	.14	.15	43	12	4.2	.58	.31	.18	.12	7.3
MIN	.09	.09	.09	.11	.12	.85	.47	.31	.19	.10	.03	.03
AC-FT	6.5	5.9	6.9	7.6	205	130	62	26	14	7.9	4.7	27
CAL YR 1975	TOTAL	238.82	MEAN	.65	MAX	14	MIN	.06	AC-FT	474		
WTR YR 1976	TOTAL	253.62	MEAN	.69	MAX	43	MIN	.03	AC-FT	503		

TIJUANA RIVER BASIN

11013200 RODRIGUEZ RESERVOIR AT RODRIGUEZ DAM, BAJA CALIFORNIA, MEXICO

LOCATION.--Lat 32°26'40", long 116°54'25", Baja California, Mexico, at Rodriguez Dam on Rio de las Palmas, 0.2 mi (0.3 km) upstream from Arroyo Matanuco, and 10 mi (16 km) southeast of Tijuana.

DRAINAGE AREA.--977 mi² (2,530 km²), of which 10 mi² (26 km²) are in the United States.

PERIOD OF RECORD.--April 1937 to current year. Published with record for Tijuana River near Nestor, Calif., October 1953 to September 1957. Monthend contents for April 1937 to September 1950 published in WSP 1315-B and for October 1950 to September 1960 in WSP 1735.

GAGE.--Nonrecording gage read once a day. Datum of gage is at mean sea level (levels by National Irrigation Commission, Mexico).

REMARKS.--Reservoir is formed by thin-shell concrete-arch dam completed in 1936; storage began in 1937. Capacity table is based on surveys made in 1927. Maximum storage at crest of spillway gates, elevation, 410.10 ft (124.998 m), 111,070 acre-ft (137 hm³); at spillway lip, elevation, 380.08 ft (115.848 m), 74,580 acre-ft (92.0 hm³); dead storage below outlet, elevation, 267.39 ft (81.500 m), 1,650 acre-ft (2.03 hm³) included in contents. Reservoir stores water for irrigation of 3,000 acres (12.1 km²) on both banks 0.5 to 5.5 mi (0.8 to 8.8 km) downstream and municipal supply for city of Tijuana. Since August 1972 Colorado River water diverted through Otay aqueduct into the reservoir for Tijuana emergency use; this year 245 acre-ft (302,000 m³) was imported.

COOPERATION.--Records furnished by Ministry of Hydraulic Resources, Government of Mexico, through International Boundary and Water Commission, United States section.

EXTREMES FOR PERIOD OF RECORD.--Reservoir spilled during March 1938, September 1940, February to May 1941, March 1942, and February, March 1944; reservoir dry Apr. 2, 1964, to Apr. 9, 1965, Aug. 21 to Nov. 22, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 3,720 acre-ft (4.59 hm³) Apr. 17-21; minimum, 2,010 acre-ft (2.48 hm³) Feb. 3, 4.

MONTHEND CONTENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Contents (acre- feet)	Change in contents (acre- feet)
Sept. 30.....	2760	--
Oct. 31.....	2580	-180
Nov. 30.....	2370	-210
Dec. 31.....	2180	-190
CAL YR 1975.....	--	-1630
Jan. 31.....	2020	-160
Feb. 29.....	3620	+1600
Mar. 31.....	3680	+60
Apr. 30.....	3690	+10
May 31.....	3530	-160
June 30.....	3300	-230
July 31.....	3090	-210
Aug. 31.....	2820	-270
Sept. 30.....	2910	+90
WTR YR 1976	--	+150

11013500 TIJUANA RIVER NEAR NESTOR, CA

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

DRAINAGE AREA.--1,695 mi² (4,390 km²), of which 1,236 mi² (3,201 km²) are in Mexico.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1914 to September 1915, October 1936 to current year.

GAGE.--Water-stage recorder. Datum of gage is 15.14 ft (4.615 m) above mean sea level. See WSP 1735 for history of changes prior to Aug. 5, 1958.

REMARKS.--Records fair. Flow regulated by Morena Reservoir, capacity, 50,210 acre-ft (61.9 hm³) and Barrett Reservoir, capacity, 44,760 acre-ft (55.2 hm³) in the United States, and Rodriguez Reservoir (station 11013200) in Mexico. Water diverted from Cottonwood Creek at Barrett Dam by Dulzura conduit to Jamul Creek. AVERAGE DISCHARGE represents flow to the ocean regardless of upstream development.

COOPERATION.--One discharge measurement was furnished by U. S. International Boundary and Water Commission.

AVERAGE DISCHARGE.--41 years, 27.4 ft³/s (0.776 m³/s), 19,850 acre-ft/yr (24.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD (SINCE 1936).--Maximum discharge, 17,700 ft³/s (501 m³/s) Feb. 7, 1937, gage height, 8.20 ft (2.499 m), datum then in use, from rating curve extended above 2,000 ft³/s (56.6 m³/s) on basis of velocity-depth relation and cross section after peak; no flow parts of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 168 ft³/s (4.76 m³/s) Feb. 9, gage height, 3.84 ft (1.170 m); no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	.30	0					0
2					0	1.5	0					0
3					0	5.3	0					0
4					0	.48	0					0
5					0	0	0					0
6					11	0	0					0
7					14	0	0					0
8					14	0	0					0
9					93	0	0					0
10					117	0	0					0
11					67	0	0					.38
12					9.0	0	0					0
13					.50	0	.62					0
14					0	0	.14					0
15					0	0	0					0
16					0	0	.15					0
17					0	0	.12					0
18					0	0	0					0
19					0	0	0					0
20					0	0	0					0
21					0	0	0					0
22					0	0	0					0
23					0	0	0					0
24					0	0	0					0
25					0	0	0					0
26					0	0	0					0
27					0	0	0					0
28					0	0	0					0
29					0	0	0					0
30					---	0	0					0
31					---	0	---					---
TOTAL	0	0	0	0	325.50	7.58	1.03	0	0	0	0	.38
MEAN	0	0	0	0	11.2	.24	.034	0	0	0	0	.013
MAX	0	0	0	0	117	5.3	.62	0	0	0	0	.38
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	646	15	2.0	0	0	0	0	.8
CAL YR 1975	TOTAL	25.14	MEAN .069	MAX 12	MIN 0	AC-FT 50						
WTR YR 1976	TOTAL	334.49	MEAN .91	MAX 117	MIN 0	AC-FT 663						

TIJUANA RIVER BASIN

11013500 TIJUANA RIVER NEAR NESTOR, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1969 to September 1972.

SEDIMENT RECORDS: October 1969 to current year.

REMARKS.--Sediment table omitted for no flow periods October to December and July to September.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 4,190 mg/l Dec. 21, 1970; minimum daily mean, no flow for many days each year.

SEDIMENT DISCHARGE: Maximum daily, 414 tons (376 tonnes) Feb. 9, 1976; minimum daily, 0 tons on many days each year.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,380 mg/l Feb. 6; minimum daily mean, no flow for many days.

SEDIMENT DISCHARGE: Maximum daily, 414 tons (376 tonnes) Feb. 9; minimum daily, 0 tons on many days.

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

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				0	0	0	.30	750	.61
2				0	0	0	1.5	1000	2.0
3				0	0	0	5.3	1880	27
4				0	0	0	.48	0	0
5				0	0	0	0	0	0
6				11	2380	71	0	0	0
7				14	1610	61	0	0	0
8				14	1090	41	0	0	0
9				93	1650	414	0	0	0
10				117	1250	395	0	0	0
11				67	361	65	0	0	0
12				9.0	250	6.1	0	0	0
13				.50	200	.27	0	0	0
14				0	0	0	0	0	0
15				0	0	0	0	0	0
16				0	0	0	0	0	0
17				0	0	0	0	0	0
18				0	0	0	0	0	0
19				0	0	0	0	0	0
20				0	0	0	0	0	0
21				0	0	0	0	0	0
22				0	0	0	0	0	0
23				0	0	0	0	0	0
24				0	0	0	0	0	0
25				0	0	0	0	0	0
26				0	0	0	0	0	0
27				0	0	0	0	0	0
28				0	0	0	0	0	0
29				0	0	0	0	0	0
30				---	---	---	0	0	0
31				---	---	---	0	0	0
TOTAL	0	0	0	325.50	---	1053.37	7.58	---	29.61

11013500 TIJUANA RIVER NEAR NESTOR, CA--Continued

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

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	0	0	0						
2	0	0	0						
3	0	0	0						
4	0	0	0						
5	0	0	0						
6	0	0	0						
7	0	0	0						
8	0	0	0						
9	0	0	0						
10	0	0	0						
11	0	0	0						
12	0	0	0						
13	.62	368	.62						
14	.14	157	.06						
15	0	0	0						
16	.15	476	.19						
17	.12	0	0						
18	0	0	0						
19	0	0	0						
20	0	0	0						
21	0	0	0						
22	0	0	0						
23	0	0	0						
24	0	0	0						
25	0	0	0						
26	0	0	0						
27	0	0	0						
28	0	0	0						
29	0	0	0						
30	0	0	0						
31	---	---	---						
TOTAL	1.03	---	.87	0	0	0	0	0	0
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							0	0	0
2							0	0	0
3							0	0	0
4							0	0	0
5							0	0	0
6							0	0	0
7							0	0	0
8							0	0	0
9							0	0	0
10							0	0	0
11							.38	285	.29
12							0	0	0
13							0	0	0
14							0	0	0
15							0	0	0
16							0	0	0
17							0	0	0
18							0	0	0
19							0	0	0
20							0	0	0
21							0	0	0
22							0	0	0
23							0	0	0
24							0	0	0
25							0	0	0
26							0	0	0
27							0	0	0
28							0	0	0
29							0	0	0
30							0	0	0
31							---	---	---
TOTAL	0	0	0	0	0	0	.38	---	.29
YEAR	334.49		1084.14						

OTAY RIVER BASIN

275

11014000 JAMUL CREEK NEAR JAMUL, CA

LOCATION.--Lat 32°38'15", long 116°53'00", in NE¼ sec.4, T.18 S., R.1 E., San Diego County, on right bank 300 ft (91 m) upstream from Otay Road crossing (revised) at upper end of Lower Otay Reservoir, 1.4 mi (2.3 km) downstream from Dulzura Creek, and 5.5 mi (8.8 km) south of Jamul.

DRAINAGE AREA.--70.2 mi² (181.8 km²).

PERIOD OF RECORD.--April 1940 to current year.

GAGE.--Water-stage recorder and broad-crested weir control with low-water venturi-type flume. Datum of gage is 511.64 ft (155.948 m) above mean sea level. Prior to Oct. 1, 1951, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records poor. No regulation above station. Water diverted from Cottonwood Creek (station 11012000) by Dulzura conduit discharges into Jamul Creek via Dulzura Creek and is included in discharge for this station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,000 ft³/s (113 m³/s) Dec. 1, 1947, gage height, 6.42 ft (1.957 m), present datum, from rating curve extended above 1,200 ft³/s (34.0 m³/s); no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 263 ft³/s (7.45 m³/s) Feb. 9 (0300 hrs), gage height, 3.42 ft (1.042 m), no other peak above base of 100 ft³/s (2.83 m³/s); no flow for many months.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	.71	16	1.1		0	.18	0
2					0	.79	13	.95		0	.10	0
3					0	16	13	.84		0	.05	0
4					0	34	11	.61		0	0	0
5					.17	10	7.6	.50		0	0	0
6					.70	5.2	6.7	.35		0	0	0
7					.90	4.8	13	.25		0	0	0
8					15	4.4	13	.15		0	0	0
9					74	4.2	5.5	.10		0	0	0
10					11	4.0	3.4	.06		0	0	.18
11					8.6	3.4	4.1	.04		0	0	.95
12					7.2	2.8	4.5	.03		0	0	.23
13					6.1	2.2	6.8	.02		0	0	0
14					5.5	2.0	5.7	.01		0	0	0
15					4.5	2.0	5.0	0		0	0	0
16					3.6	4.9	4.4	0		0	0	0
17					3.1	2.6	3.7	0		0	0	0
18					2.5	8.0	7.8	0		0	0	0
19					2.4	9.9	7.2	0		0	0	0
20					3.4	12	6.2	0		0	0	0
21					2.6	17	5.3	0		0	0	0
22					2.0	17	3.1	0		0	0	0
23					1.7	17	2.3	0		0	0	0
24					1.3	17	2.4	0		0	0	0
25					1.2	17	3.1	0		0	0	0
26					1.1	17	2.8	0		1.3	0	0
27					.93	16	2.3	0		.48	0	0
28					.82	16	1.8	0		.36	0	0
29					.71	16	1.7	0		.32	0	0
30					---	16	1.4	0		.24	0	0
31		---			---	16	---	0	---	.24	0	---
TOTAL	0	0	0	0	161.03	315.90	183.8	5.01	0	2.94	.33	1.36
MEAN	0	0	0	0	5.55	10.2	6.13	.16	0	.095	.011	.045
MAX	0	0	0	0	74	34	16	1.1	0	1.3	.18	.95
MIN	0	0	0	0	0	.71	1.4	0	0	0	0	0
AC-FT	0	0	0	0	319	627	365	9.9	0	5.8	.7	2.7
CAL YR 1975	TOTAL 255.65	MEAN .70	MAX 13	MIN 0	AC-FT 507							
WTR YR 1976	TOTAL 670.37	MEAN 1.83	MAX 74	MIN 0	AC-FT 1330							

OTAY RIVER BASIN

11014550 LOWER OTAY RESERVOIR NEAR CHULA VISTA, CA

LOCATION.--Lat 32°36'35", long 116°55'35", in NW¼NW¼ sec.18, T.18 S., R.1 E., San Diego County, on upstream face 200 ft (61 m) from right end of Savage Dam on Otay River, and 9 mi (14 km) east of Chula Vista.

DRAINAGE AREA.--99.0 mi² (256.4 km²).

PERIOD OF RECORD.--October 1945 to September 1959 published with Otay River at Savage Dam (station 11014500). October 1972 to current year. Records of monthend gage heights October 1936 to September 1945, in files of San Diego County Department of Sanitation and Flood Control.

GAGE.--Water-stage recorder. Datum of gage is 397.20 ft (121.067 m) above mean sea level; gage readings have been reduced to elevations above mean sea level. Prior to Oct. 1, 1972, nonrecording gage at different site at datum 50.00 ft (15.240 m) lower.

REMARKS.--Reservoir is formed by gravity section cyclopean concrete and masonry dam, built in 1919. Capacity from Geological Survey table dated Apr. 3, 1956. Maximum capacity at top of spillway gates, 56,520 acre-ft (69.7 hm³), elevation, 490.70 ft (149.565 m). Capacity at permanent spillway level, 49,510 acre-ft (61.0 hm³), elevation, 484.70 ft (147.737 m). Dead storage below lowest outlet, 1,150 acre-ft (1.42 hm³), elevation, 395.05 ft (120.411 m). Dulzura conduit carries water from Barrett Reservoir on Cottonwood Creek to Dulzura Creek, where water is carried to the reservoir by Jamul Creek (11014000). Reservoir storage includes supplemental Colorado River water. Small diversions for local use near reservoir. Water used for municipal supply by city of San Diego.

COOPERATION.--Gage heights were furnished by San Diego County Department of Sanitation and Flood Control.

EXTREMES FOR PERIOD OF RECORD (1945-59 AND SINCE 1972).--Maximum contents, 48,200 acre-ft (59.4 hm³) Oct. 31, 1945, elevation, 493.87 ft (150.532 m); minimum 3,160 acre-ft (3.90 hm³) Dec. 31, 1951, elevation, 407.56 ft (124.224 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 9,970 acre-ft (12.3 hm³) May 1, elevation, 429.68 ft (130.965 m); minimum, 4,920 acre-ft (6.06 hm³) Jan. 6, elevation, 414.92 ft (126.468 m).

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	416.05	5240	--
Oct. 31.....	415.61	5110	-130
Nov. 30.....	415.22	5000	-110
Dec. 31.....	414.98	4940	-60
CAL YR 1975.....	--	--	-1010
Jan. 31.....	418.05	5840	+900
Feb. 29.....	427.45	9090	+3250
Mar. 31.....	428.77	9600	+510
Apr. 30.....	429.68	9970	+370
May 31.....	429.53	9910	-60
June 30.....	429.21	9780	-130
July 31.....	428.14	9350	-430
Aug. 31.....	423.70	7700	-1650
Sept. 30.....	420.11	6490	-1210
WTR YR 1976	--	--	-1250

11015000 SWEETWATER RIVER NEAR DESCANSO, CA

LOCATION.--Lat 32°50'05", long 116°37'20", in NW¼SE¼ sec.25, T.15 S., R.3 E., San Diego County, on right bank at Japatul Valley Road bridge (revised), 0.7 mi (1.1 km) downstream from unnamed tributary, and 1.3 mi (2.1 km) south of Descanso.

DRAINAGE AREA.--45.4 mi² (117.6 km²).

PERIOD OF RECORD.--October 1905 to September 1927, October 1956 to current year. Monthly discharge only for October to December 1905, January to February 1916, February, March, June to September 1927, published in WSP 1315-B. Combined records of river and diversion, October 1956 to current year.

GAGE.--Water-stage recorder on river; water-stage recorder on concrete diversion. Datum of river gage is 3,269.24 ft (996.464 m) above mean sea level. Prior to June 25, 1927, nonrecording gages at several sites within 0.1 mi (0.2 km) upstream at various datums. Diversion gage at different datum.

REMARKS.--Records fair. No regulation above station. Sweetwater River diversion diverts 0.3 mi (0.5 km) above station for irrigation below. For records of combined discharge of river and diversion, see following page.

AVERAGE DISCHARGE.--Creek only: 42 years, 9.84 ft³/s (0.279 m³/s), 7,130 acre-ft/yr (8.79 hm³/yr).
Combined creek and diversion: 20 years, 3.58 ft³/s (0.101 m³/s), 2,590 acre-ft/yr (3.19 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Creek only: Maximum discharge, 11,200 ft³/s (317 m³/s) Feb. 16, 1927, gage height, 13.2 ft (4.023 m), from floodmarks, site and datum then in use, on basis of slope-area measurement of maximum flow; no flow many days in most years.
Combined creek and diversion: Maximum discharge, 3,890 ft³/s (110 m³/s) Dec. 6, 1966; no flow many days in each year.

EXTREMES FOR CURRENT YEAR.--Creek only: Maximum discharge, 128 ft³/s (3.63 m³/s) Feb. 9 (0100 hrs), gage height, 4.72 ft (1.439 m), no other peak above base of 100 ft³/s (2.83 m³/s); no flow many days.
Combined creek and diversion: Maximum discharge, 129 ft³/s (3.65 m³/s) Feb. 9 (0100 hrs); no flow many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.09	.09	.06	3.5	1.1	1.2	.05	0	.09	0
2		0	.05	.09	.08	3.5	1.0	1.1	.05	0	.08	0
3		0	.03	.05	.09	3.4	.95	1.0	.05	0	.08	0
4		0	.03	.05	.23	3.4	1.5	1.1	.05	0	.05	0
5		0	.02	.05	2.2	4.2	4.5	.95	.05	0	.03	0
6		0	.02	.05	4.0	4.2	3.0	1.1	.05	0	.02	0
7		0	.01	.05	1.9	4.2	2.3	1.2	.04	0	.01	0
8		0	.01	.05	4.2	4.2	1.9	1.1	.04	0	0	0
9		0	.01	.05	3.6	4.2	1.6	.95	.03	0	0	0
10		0	.02	.05	8.3	4.4	1.5	.87	.04	0	0	3.6
11		0	.02	.05	4.0	4.9	1.3	.79	.05	0	0	1.1
12		0	.22	.05	2.3	4.4	1.2	.65	.04	0	0	.29
13		0	.29	.05	1.7	3.8	1.1	.58	.03	0	0	.16
14		0	.16	.05	1.3	3.6	3.0	.47	.03	0	0	.09
15		0	.09	.05	1.2	3.2	5.6	.47	.02	0	0	.08
16		0	.06	.05	1.1	3.0	1.1	.37	.02	0	.01	.06
17		0	.06	.05	1.1	2.8	5.9	.37	.02	0	.01	.05
18		0	.06	.06	1.0	2.8	4.0	.33	.02	0	.01	.04
19		0	.06	.06	.95	2.6	3.4	.33	.02	0	.01	.04
20		0	.08	.06	.87	2.5	2.8	.29	.01	0	0	.05
21		0	.08	.06	.87	2.3	2.6	.25	.01	0	0	.05
22		0	.08	.08	.79	2.3	2.5	.22	.01	0	0	.03
23		0	.08	.08	.87	2.2	2.2	.22	.01	0	0	.06
24		0	.08	.08	.87	3.9	1.9	.16	0	0	0	.08
25		0	.08	.06	.95	2.0	1.9	.14	0	0	0	.14
26		0	.06	.06	2.3	1.8	1.9	.11	0	4.3	0	.14
27		0	.06	.06	3.5	1.7	1.7	.11	0	.79	0	.11
28		1.3	.05	.06	5.0	1.6	1.5	.09	0	.47	0	.09
29		.42	.05	.06	3.6	1.4	1.5	.09	0	.37	0	.08
30		.19	.06	.06	---	1.3	1.3	.08	0	.19	0	.08
31		---	.11	.06	---	1.2	---	.08	---	.14	0	---
TOTAL	0	1.91	2.18	1.83	91.33	94.5	77.65	16.77	.74	6.26	.40	6.42
MEAN	0	.064	.070	.059	3.15	3.05	2.59	.54	.025	.20	.013	.21
MAX	0	1.3	.29	.09	.36	4.9	1.1	1.2	.05	4.3	.09	3.6
MIN	0	0	.01	.05	.06	1.2	.95	.08	0	0	0	0
AC-FT	0	3.8	4.3	3.6	181	187	154	33	1.5	12	.8	13
CAL YR 1975	TOTAL	452.87	MEAN	1.24	MAX	13	MIN	0	AC-FT	898		
WTR YR 1976	TOTAL	299.99	MEAN	.82	MAX	36	MIN	0	AC-FT	595		

SWEETWATER RIVER BASIN

11015000 SWEETWATER RIVER NEAR DESCANSO, CA--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF SWEETWATER RIVER AND
SWEETWATER DIVERSION NEAR DESCANSO, CA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.04	.45	.39	.22	3.8	1.4	1.6	.17	0	.09	0
2	0	.04	.36	.35	.26	3.9	1.3	1.5	.16	0	.08	0
3	0	.04	.31	.31	.33	3.9	1.3	1.5	.15	0	.08	0
4	0	.04	.28	.31	.65	3.9	1.9	1.5	.14	0	.05	0
5	0	.05	.25	.31	2.9	4.7	5.0	1.4	.14	0	.03	0
6	0	.05	.23	.29	4.7	4.7	3.5	1.5	.14	0	.02	0
7	0	.06	.21	.29	2.5	4.7	2.7	1.6	.13	0	.01	0
8	0	.06	.19	.29	4.8	4.7	2.3	1.5	.11	0	0	0
9	0	.08	.19	.29	36	4.7	2.0	1.3	.10	0	0	0
10	0	.09	.20	.29	8.8	4.9	1.9	1.2	.15	0	0	4.1
11	0	.11	.20	.29	4.4	5.5	1.6	1.1	.19	0	0	1.8
12	0	.09	.58	.29	2.6	5.0	1.6	.95	.15	0	0	.70
13	0	.08	.74	.29	2.0	4.3	1.7	.86	.09	0	0	.46
14	0	.09	.59	.29	1.5	4.1	3.6	.75	.06	0	0	.32
15	0	.09	.45	.29	1.4	3.7	6.3	.72	.04	0	0	.29
16	0	.11	.39	.29	1.3	3.5	12	.60	.04	0	.01	.26
17	0	.12	.37	.27	1.3	3.3	6.6	.60	.04	0	.01	.23
18	0	.15	.36	.30	1.2	3.2	4.7	.54	.03	0	.01	.19
19	0	.14	.34	.28	1.1	3.0	4.0	.54	.03	0	.01	.19
20	0	.11	.38	.28	1.1	2.9	3.4	.49	.02	0	0	.20
21	0	.11	.38	.28	1.0	2.7	3.2	.43	.01	0	0	.20
22	0	.09	.38	.32	.94	2.7	3.1	.40	.01	0	0	.17
23	0	.09	.38	.34	1.0	2.6	2.8	.40	.01	0	0	.18
24	0	.09	.36	.34	1.0	4.4	2.4	.32	0	0	0	.19
25	0	.11	.36	.28	1.1	2.4	2.4	.30	0	0	0	.25
26	0	.11	.31	.28	2.5	2.2	2.4	.26	0	4.6	0	.25
27	0	.20	.31	.26	3.7	2.1	2.2	.25	0	.81	0	.22
28	0	1.9	.30	.24	5.2	2.0	2.0	.23	0	.47	0	.19
29	0	.92	.28	.24	3.8	1.7	2.0	.24	0	.37	0	.17
30	0	.62	.32	.24	---	1.6	1.8	.23	0	.19	0	.15
31	.02	---	.47	.24	---	1.5	---	.20	---	.14	0	---
TOTAL	.02	5.88	10.92	9.05	99.30	108.3	93.1	25.01	2.11	6.58	.40	10.71
MEAN	.0006	.20	.35	.29	3.42	3.49	3.10	.81	.070	.21	.013	.36
MAX	.02	1.9	.74	.39	36	5.5	12	1.6	.19	4.6	.09	4.1
MIN	0	.04	.19	.24	.22	1.5	1.3	.20	0	0	0	0
AC-FT	.04	12	22	18	197	215	185	50	4.2	13	.8	21

CAL YR 1975 TOTAL 465.60 MEAN 1.28 MAX 13 MIN 0 AC-FT 924
 WTR YR 1976 TOTAL 371.38 MEAN 1.01 MAX 36 MIN 0 AC-FT 737

11016550 SWEETWATER RESERVOIR NEAR NATIONAL CITY, CA

LOCATION.--Lat 32°41'20", long 117°00'35", San Diego County, in La Nacion Grant, at Sweetwater Dam on Sweetwater River, 6 mi (10 km) east of National City, and 8 mi (13 km) upstream from mouth.

DRAINAGE AREA.--182 mi² (471 km²).

PERIOD OF RECORD.--October 1943 to September 1966 published with Sweetwater River at Sweetwater Dam (station 11016500), October 1972 to current year. Records of monthend gage heights October 1891 to September 1943, in files of San Diego County Department of Sanitation and Flood Control.

GAGE.--Nonrecording gage. Datum of gage is 149.28 ft (45.501 m) above mean sea level (levels by San Diego County); gage readings have been reduced to elevations above mean sea level. Oct. 1, 1972, to Mar. 6, 1975, water-stage recorder at same site and datum. Prior to Oct. 1, 1972, nonrecording gage at same site at datum 0.16 ft (0.049 m) lower.

REMARKS.--Reservoir is formed by concrete-gravity dam. Dam completed Apr. 7, 1888, to elevation 223.82 ft (68.220 m), raised to elevation 228.82 ft (69.744 m) in 1895, and raised to elevation 243.82 ft (74.316 m) in 1911. In 1939 the spillway was completed at its present elevation. Capacity table dated December 1947. Capacity of reservoir at spillway level, 27,690 acre-ft (34.1 hm³), elevation, 238.82 ft (72.792 m). Dead storage below lowest outlet, 4.0 acre-ft (4,930 m³), elevation, 168.82 ft (51.456 m). Diversions for irrigation. Regulation at Loveland Reservoir. Water is released by California-American Water Co. as required for irrigation and domestic use in Chula Vista, National City, and contiguous areas.

COOPERATION.--Gage heights were furnished by Sweetwater Authority.

EXTREMES FOR PERIOD OF RECORD (1943-66 AND SINCE 1972).--Maximum contents observed, 20,900 acre-ft (25.8 hm³) Oct. 31, 1943, elevation, 231.24 ft (70.482 m); minimum observed, 1,740 acre-ft (2.15 hm³) Nov. 1, 1949, elevation, 188.48 ft (57.449 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 7,280 acre-ft (8.98 hm³) Sept. 28, 29, 30, elevation, 207.38 ft (63.209 m); minimum observed, 2,350 acre-ft (2.90 hm³) Nov. 26, elevation, 191.45 ft (58.354 m).

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	193.26	2780	--
Oct. 31.....	192.20	2520	-260
Nov. 30.....	191.87	2440	-80
Dec. 31.....	193.37	2800	+360
CAL YR 1975.....	--	--	+260
Jan. 31.....	192.97	2710	-90
Feb. 29.....	195.92	3460	+750
Mar. 31.....	198.50	4180	+720
Apr. 30.....	203.06	5650	+1470
May 31.....	205.51	6540	+890
June 30.....	206.08	6760	+220
July 31.....	205.67	6600	-160
Aug. 31.....	205.98	6720	+120
Sept. 30.....	207.38	7280	+560
WTR YR 1976.....	--	--	+4500

SAN DIEGO RIVER BASIN

11020600 EL CAPITAN RESERVOIR NEAR LAKESIDE, CA

LOCATION.--Lat 32°53'00", long 116°48'25", in NE¼SE¼NE¼ sec.7, T.15 S., R.2 E., San Diego County, on outlet tower of El Capitan Dam on San Diego River, 7 mi (11 km) east of Lakeside.

DRAINAGE AREA.--188 mi² (487 km²).

PERIOD OF RECORD.--October 1945 to September 1966 published with San Diego River at El Capitan Dam (station 11020500), October 1972 to current year. October 1936 to September 1945 not equivalent owing to exclusion of greater part of flow released from Cuyamaca Reservoir.

GAGE.--Water-stage recorder. Datum of gage is 663.0 ft (202.08 m) above mean sea level; gage readings have been converted to elevations above mean sea level. Prior to Oct. 1, 1972, nonrecording gage at same site at datum 110.0 ft (33.53 m) lower.

REMARKS.--Reservoir is formed by hydraulic fill-rock embankment, completed in 1935. Capacity table dated Mar. 29, 1956. Capacity of reservoir at spillway level, 112,810 acre-ft (139 hm³), elevation, 750.00 ft (228.600 m). Dead storage below lowest outlet, 59.2 acre-ft (73,000 m³), elevation, 574.00 ft (174.955 m). Reservoir storage includes supplemental Colorado River water. No significant diversion above reservoir. Flow partly regulated by Cuyamaca Reservoir. Water is released as required for municipal use and irrigation.

COOPERATION.--Records were furnished by San Diego County, Department of Sanitation and Flood Control.

EXTREMES FOR PERIOD OF RECORD (1945-66 AND SINCE 1972).--Maximum contents, 62,400 acre-ft (76.9 hm³) Oct. 1, 1945, elevation, 708.75 ft (216.027 m); minimum, 2,252 acre-ft (2.78 hm³) May 1, 1957, elevation, 606.28 ft (184.794 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 16,340 acre-ft (20.1 hm³) Oct. 1, elevation, 651.66 ft (198.626 m); minimum, 8,870 acre-ft (10.9 hm³) Jan. 27, elevation, 633.15 ft (192.984 m).

MONTH-END ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	651.72	16530	--
Oct. 31.....	650.00	15530	-820
Nov. 30.....	647.30	14300	-1230
Dec. 31.....	638.40	10710	-3590
CAL YR 1975.....	--	--	-3530
Jan. 31.....	633.16	8850	-1860
Feb. 29.....	616.66	10070	+1220
Mar. 31.....	640.04	11320	+1250
Apr. 30.....	641.56	11910	+590
May 31.....	643.18	12550	+640
June 30.....	642.70	12360	-190
July 31.....	642.18	12150	-210
Aug. 31.....	636.48	10010	-2140
Sept. 30.....	634.06	9160	-850
WTR YR 1976.....	--	--	-7190

11022100 SAN VICENTE RESERVOIR NEAR LAKESIDE, CA

LOCATION.--Lat 32°54'45", long 116°55'25", in SE¼SW¼NW¼ sec.31, T.14 S., R.1 E., San Diego County, near center of upstream face of San Vicente Dam on San Vicente Creek, 3.6 mi (5.8 km) north of Lakeside.

DRAINAGE AREA.--74.2 mi² (192.2 km²).

PERIOD OF RECORD.--October 1946 to September 1961 published with San Vicente Creek at San Vicente Dam, at Foster (station 11022000). October 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 560.0 ft (170.69 m) above mean sea level; gage readings have been converted to elevations above mean sea level. October 1946 to September 1961, nonrecording gage at same site at datum 100 ft (30.5 m) lower.

REMARKS.--Reservoir is formed by concrete-gravity dam, constructed in 1941-43 by city of San Diego; storage began during construction period. Capacity table is dated Feb. 18, 1944. Capacity of reservoir at spillway level, 90,230 acre-ft (111 hm³), elevation, 650 ft (198.1 m). Dead storage below lowest outlet, 350 acre-ft (432,000 m³), elevation, 493.0 ft (150.27 m). Reservoir storage includes supplemental water from the San Diego River, Santa Ysabel Creek, and Colorado River basins. No diversion above reservoir. Water is released as required for municipal use.

COOPERATION.--Gage heights were furnished by San Diego County, Department of Sanitation and Flood Control.

EXTREMES FOR PERIOD OF RECORD (1946-61 AND SINCE 1972).--Maximum contents, 83,980 acre-ft (104 hm³) July 31, 1973, elevation, 664.07 ft (202.409 m); minimum, 12,390 acre-ft (15.3 hm³) Nov. 1, 1947, elevation, 549.22 ft (167.402 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 75,770 acre-ft (93.4 hm³) June 7, elevation, 636.00 ft (193.853 m); minimum, 57,940 acre-ft (71.4 hm³) Sept. 30, elevation, 617.02 ft (188.068 m).

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	624.61	64830	--
Oct. 31.....	619.74	60380	-4450
Nov. 30.....	618.14	58940	-1440
Dec. 31.....	623.60	63900	+4960
CAL YR 1975.....	--	--	-4180
Jan. 31.....	621.76	62210	-1690
Feb. 29.....	624.25	64500	+2290
Mar. 31.....	627.60	67630	+3130
Apr. 30.....	633.73	73530	+5900
May 31.....	635.93	75700	+2170
June 30.....	634.10	73900	-1800
July 31.....	628.75	68720	-5180
Aug. 31.....	622.75	63120	-5600
Sept. 30.....	617.02	57940	-5180
WTR YR 1976.....	--	--	-6890

SAN DIEGO RIVER BASIN

11022500 SAN DIEGO RIVER NEAR SANTEE, CA

LOCATION.--Lat 32°49'29", long 117°03'17", in Ex Mission San Diego Grant, San Diego County, on right bank in Mission Gorge, 0.2 mi (0.3 km) upstream from left tributary, 6 mi (10 km) west of Santee, and 18 mi (29 km) downstream from El Capitan Reservoir.

DRAINAGE AREA.--377 mi² (976 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1912 to December 1915, March 1916 to current year. Monthly discharge only for some periods and yearly estimates only for 1924-25, published in WSP 1315-B.

GAGE.--Water-stage recorder. Altitude of gage is 180 ft (54.9 m), from topographic map. Prior to Nov. 10, 1920, nonrecording gage at site 1.5 mi (2.4 km) upstream at different datum. Nov. 10, 1920, to Dec. 1, 1954, water-stage recorder at present site at datum 1.0 ft (0.30 m) higher.

REMARKS.--Records fair. Flow regulated by Cuyamaca Reservoir, capacity, 11,540 acre-ft (46.7 hm³), El Capitan Reservoir (station 11020500), and San Vicente Reservoir (station 11022000). Diversions by city of San Diego for municipal supply and by Helix Irrigation District. AVERAGE DISCHARGE represents flow to ocean during period of record, regardless of upstream development.

AVERAGE DISCHARGE.--63 years (water years 1913-1915, 1917-1976), 21.9 ft³/s (0.620 m³/s), 15,870 acre-ft/yr (19.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 70,200 ft³/s (1,990 m³/s) Jan. 27, 1916, based on slope-conveyance computation of peak flow, gage height, 25.1 ft (7.651 m), from floodmarks, site and datum then in use; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 1,210 ft³/s (34.3 m³/s) Feb. 8, gage height, 7.72 ft (2.353 m), on basis of slope-area computation of 1,280 ft³/s (36.2 m³/s); no flow July 15-22, Aug. 10-20.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	6.2	14	7.7	6.5	26	6.7	4.5	3.2	.39	.36	.11
2	4.0	6.1	11	7.7	6.9	81	6.6	4.4	3.2	.38	.33	.10
3	4.1	6.1	10	7.7	6.3	166	6.5	4.3	3.0	.38	.29	.09
4	3.6	6.1	9.3	7.9	11	55	7.5	4.0	2.8	.37	.23	4.0
5	3.3	6.2	8.3	8.2	148	30	12	3.9	2.5	.33	.15	4.0
6	3.2	6.2	7.8	8.5	157	21	9.3	4.0	2.4	.30	.09	3.1
7	3.5	6.4	7.5	8.2	138	16	7.4	4.1	2.3	.27	.05	2.5
8	4.0	6.6	7.5	7.8	171	13	6.4	3.9	2.1	.26	.03	2.5
9	4.3	6.5	7.5	7.7	354	11	5.6	3.9	1.9	.26	.01	2.3
10	4.2	6.5	7.5	7.8	85	10	5.4	3.8	1.7	.28	0	98
11	3.9	6.5	7.4	7.9	53	10	5.2	3.5	1.6	.13	0	109
12	3.9	6.5	7.5	7.8	28	9.1	6.4	3.3	1.7	.05	0	24
13	3.8	6.3	13	7.9	22	8.4	7.2	3.4	1.7	.02	0	14
14	3.5	6.5	11	7.7	18	7.9	27	3.3	1.8	.01	0	8.8
15	3.1	7.2	10	7.4	16	7.7	15	3.0	1.7	0	0	6.0
16	2.8	7.7	9.1	7.1	14	7.7	30	2.6	1.5	0	0	4.5
17	3.0	8.2	8.6	6.9	12	7.7	15	2.7	1.3	0	0	3.5
18	3.3	8.1	8.1	6.9	11	7.8	10	4.0	1.2	0	0	5.2
19	3.7	7.9	7.8	7.1	10	7.8	8.0	3.5	1.2	0	0	5.2
20	4.1	7.8	7.7	7.4	9.4	7.7	6.8	3.0	1.1	0	0	4.2
21	4.8	7.8	8.4	7.2	8.8	7.8	6.2	2.7	.96	0	.38	3.6
22	5.3	7.8	8.5	7.2	8.4	7.9	6.0	2.4	.87	0	.49	3.1
23	5.5	7.7	8.5	7.7	8.1	7.8	5.9	2.3	.78	.01	.45	2.7
24	5.8	7.7	8.3	7.9	7.8	7.5	5.9	2.2	.68	.03	.37	2.5
25	6.2	7.7	8.0	8.0	7.3	7.1	5.6	2.3	.64	.04	.18	2.4
26	6.6	7.3	8.0	8.0	7.2	6.8	5.3	2.3	.60	.06	.11	2.5
27	6.8	7.2	8.0	7.8	7.2	6.8	5.0	2.6	.54	.09	.22	2.6
28	6.4	24	8.0	7.5	7.2	6.9	4.8	2.8	.47	.16	.20	2.5
29	6.3	33	8.0	7.0	7.4	7.0	4.7	3.0	.42	.36	.20	2.3
30	6.3	20	8.0	6.6	---	6.9	4.6	3.1	.39	.44	.16	2.0
31	6.2	---	7.8	6.5	---	6.9	---	3.2	---	.41	.15	---
TOTAL	139.9	265.8	270.1	234.7	1346.5	590.2	322.8	102.0	46.25	5.03	4.45	327.30
MEAN	4.51	8.86	8.71	7.57	46.4	19.0	10.8	3.29	1.54	.16	.14	10.9
MAX	6.8	33	14	8.5	354	166	72	4.5	3.2	.44	.49	109
MIN	2.8	6.1	7.4	6.5	6.3	6.8	4.6	2.2	.39	0	0	.09
AC-FT	277	527	536	466	2670	1170	640	202	92	10.0	8.8	649
CAL YR 1975	TOTAL	5759.20	MEAN	15.8	MAX	418	MIN	2.8	AC-FT	11420		
WTR YR 1976	TOTAL	3655.03	MEAN	9.99	MAX	354	MIN	0	AC-FT	7250		

SAN DIEGO RIVER BASIN

11022500 SAN DIEGO RIVER NEAR SANTEE, CA--Continued

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

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	4.4	24	.29	6.2	35	.59	14	31	1.2
2	4.0	23	.25	6.1	33	.54	11	27	.80
3	4.1	22	.24	6.1	30	.49	10	27	.73
4	3.6	21	.20	6.1	28	.46	9.3	25	.63
5	3.3	23	.20	6.2	27	.45	8.3	27	.61
6	3.2	27	.23	6.2	26	.44	7.8	24	.51
7	3.5	30	.28	6.4	25	.43	7.5	20	.41
8	4.0	36	.39	6.6	25	.45	7.5	19	.38
9	4.3	37	.43	6.5	25	.44	7.5	19	.38
10	4.2	34	.39	6.5	24	.42	7.5	18	.36
11	3.9	32	.34	6.5	24	.42	7.4	18	.36
12	3.9	30	.32	6.5	25	.44	7.5	18	.36
13	3.8	28	.29	6.3	25	.43	13	32	1.1
14	3.5	27	.26	6.5	26	.46	11	22	.65
15	3.1	24	.20	7.2	27	.52	10	19	.51
16	2.8	22	.17	7.7	29	.60	9.1	18	.44
17	3.0	20	.16	8.2	30	.66	8.6	17	.39
18	3.3	22	.20	8.1	29	.63	8.1	16	.35
19	3.7	24	.24	7.9	28	.60	7.8	15	.32
20	4.1	28	.31	7.8	27	.57	7.7	15	.31
21	4.8	30	.39	7.8	26	.55	8.4	16	.36
22	5.3	33	.47	7.8	25	.53	8.5	16	.37
23	5.5	36	.53	7.7	24	.50	8.5	16	.37
24	5.8	41	.64	7.7	23	.48	8.3	16	.36
25	6.2	44	.74	7.7	22	.46	8.0	16	.35
26	6.6	48	.86	7.3	21	.41	8.0	16	.35
27	6.8	50	.92	7.2	21	.41	8.0	15	.32
28	6.4	47	.81	24	136	11	8.0	15	.32
29	6.3	44	.75	33	130	12	8.0	15	.32
30	6.3	40	.68	20	53	2.9	8.0	14	.30
31	6.2	37	.62	---	---	---	7.8	14	.29
TOTAL	139.9	---	22.99	265.8	---	39.28	270.1	---	14.51
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	7.7	14	.29	6.5	10	.18	26	95	21
2	7.7	14	.29	6.9	10	.19	81	108	39
3	7.7	14	.29	6.3	10	.17	166	124	68
4	7.9	14	.30	11	40	1.3	55	40	5.9
5	8.2	15	.33	148	239	130	30	25	2.0
6	8.5	15	.34	157	247	133	21	20	1.1
7	8.2	15	.33	138	214	116	16	20	.86
8	7.8	15	.32	171	206	300	13	18	.63
9	7.7	14	.29	354	355	478	11	18	.53
10	7.8	13	.27	85	115	28	10	18	.49
11	7.9	12	.26	53	80	11	10	18	.49
12	7.8	12	.25	28	53	4.0	9.1	16	.39
13	7.9	13	.28	22	48	2.9	8.4	16	.36
14	7.7	13	.27	18	44	2.1	7.9	16	.34
15	7.4	12	.24	16	42	1.8	7.7	16	.33
16	7.1	12	.23	14	41	1.5	7.7	15	.31
17	6.9	11	.20	12	40	1.3	7.7	15	.31
18	6.9	11	.20	11	40	1.2	7.8	14	.29
19	7.1	11	.21	10	40	1.1	7.8	14	.29
20	7.4	11	.22	9.4	39	.99	7.7	14	.29
21	7.2	11	.21	8.8	39	.93	7.8	14	.29
22	7.2	11	.21	8.4	39	.88	7.9	14	.30
23	7.7	11	.23	8.1	38	.83	7.8	14	.29
24	7.9	12	.26	7.8	38	.80	7.5	14	.28
25	8.0	12	.26	7.3	38	.75	7.1	14	.27
26	8.0	12	.26	7.2	36	.70	6.8	14	.26
27	7.8	12	.25	7.2	36	.70	6.8	14	.26
28	7.5	11	.22	7.2	36	.70	6.9	14	.26
29	7.0	11	.21	7.4	---	---	7.0	14	.26
30	6.6	11	.20	---	---	---	6.9	14	.26
31	6.5	10	.18	---	---	---	6.9	14	.26
TOTAL	234.7	---	7.90	1346.5	---	1221.02	590.2	---	145.90

11022500 SAN DIEGO RIVER NEAR SANTEE, CA--Continued

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

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	6.7	14	.25	4.5	18	.22	3.2	15	.13
2	6.6	14	.25	4.4	18	.21	3.2	15	.13
3	6.5	14	.25	4.3	18	.21	3.0	15	.12
4	7.5	20	.41	4.0	18	.19	2.8	14	.11
5	12	32	1.0	3.9	18	.19	2.5	14	.09
6	9.3	26	.65	4.0	18	.19	2.4	14	.09
7	7.4	20	.40	4.1	18	.20	2.3	14	.09
8	6.4	20	.35	3.9	18	.19	2.1	13	.07
9	5.6	15	.23	3.9	18	.19	1.9	13	.07
10	5.4	15	.22	3.8	18	.18	1.7	13	.06
11	5.2	15	.21	3.5	18	.17	1.6	13	.06
12	6.4	15	.26	3.3	18	.16	1.7	12	.06
13	72	121	47	3.4	17	.16	1.7	12	.06
14	27	44	3.2	3.3	17	.15	1.8	12	.06
15	15	28	1.3	3.0	16	.13	1.7	12	.06
16	30	73	6.8	2.6	15	.11	1.5	12	.05
17	15	28	1.1	2.7	20	.15	1.3	12	.04
18	10	24	.65	4.0	25	.27	1.2	12	.04
19	8.0	22	.48	3.5	21	.20	1.4	12	.04
20	6.8	22	.40	3.0	18	.15	1.1	12	.04
21	6.2	22	.37	2.7	17	.12	.96	12	.03
22	6.0	22	.36	2.4	15	.10	.87	12	.03
23	5.9	20	.32	2.3	14	.09	.78	12	.03
24	5.9	20	.32	2.2	13	.08	.68	12	.02
25	5.6	20	.30	2.3	13	.08	.64	12	.02
26	5.3	20	.29	2.3	14	.09	.60	12	.02
27	5.0	20	.27	2.6	14	.10	.54	12	.02
28	4.8	20	.26	2.8	15	.11	.47	12	.02
29	4.7	20	.25	3.0	15	.12	.42	12	.01
30	4.6	20	.25	3.1	15	.13	.39	12	.01
31	---	---	---	3.2	---	---	---	---	---
TOTAL	322.8	---	68.40	102.0	---	4.64	46.25	---	1.68
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	.39	11	.01	.36	20	.02	.11	15	0
2	.38	11	.01	.33	20	.02	.10	15	0
3	.38	11	.01	.29	15	.01	.09	15	0
4	.37	11	.01	.23	12	.01	4.0	35	.38
5	.33	11	.01	.15	12	0	4.0	34	.37
6	.30	11	.01	.09	11	0	3.1	35	.29
7	.27	11	.01	.05	11	0	2.5	35	.24
8	.26	11	.01	.03	11	0	2.5	35	.24
9	.26	11	.01	.01	10	0	2.3	35	.22
10	.28	10	.01	0	0	0	98	97	51
11	.13	10	0	0	0	0	109	75	26
12	.05	10	0	0	0	0	24	42	2.7
13	.02	8	0	0	0	0	14	27	1.0
14	.01	5	0	0	0	0	8.8	20	.48
15	0	0	0	0	0	0	6.0	16	.26
16	0	0	0	0	0	0	4.5	14	.17
17	0	0	0	0	0	0	3.5	13	.12
18	0	0	0	0	0	0	5.2	14	.20
19	0	0	0	0	0	0	5.2	14	.20
20	0	0	0	0	0	0	4.2	13	.15
21	0	0	0	.38	20	.02	3.6	12	.12
22	0	0	0	.49	30	.04	3.1	11	.09
23	.01	5	0	.45	34	.04	2.7	10	.07
24	.03	8	0	.37	25	.02	2.5	9	.06
25	.04	8	0	.18	12	.01	2.4	9	.06
26	.06	8	0	.11	10	0	2.5	9	.06
27	.09	8	0	.22	11	.01	2.6	9	.06
28	.16	8	0	.20	15	.01	2.5	9	.06
29	.36	10	.01	.20	20	.01	2.3	9	.06
30	.44	15	.02	.16	30	.01	2.0	9	.05
31	.41	20	.02	.15	20	.01	---	---	---
TOTAL	5.03	---	.15	4.45	---	.24	327.30	---	84.71
YEAR	3655.03		1611.42						

SAN DIEGO RIVER BASIN

11022500 SAN DIEGO RIVER NEAR SANTEE, CA--Continued

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

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
NOV										
28...	1300	12.5	23	131	8.1	--	--	--	--	--
28...	1630	12.5	34	182	17	76	85	91	96	98
FEB										
05...	1125	12.0	240	530	343	64	74	80	86	92
06...	1515	12.0	133	321	115	74	81	84	87	88
10...	1115	14.0	67	92	17	--	--	--	--	--
11...	1400	15.5	44	70	8.3	--	--	--	--	--
APR										
13...	1400	16.0	221	381	227	70	79	85	90	94

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
NOV										
28...	--	95	--	97	--	99	--	100	--	--
28...	--	98	--	99	--	100	--	--	--	--
FEB										
05...	95	--	98	--	99	--	100	--	--	--
06...	90	--	92	--	94	--	99	--	100	--
10...	--	94	--	94	--	95	--	98	--	100
11...	--	100	--	--	--	--	--	--	--	--
APR										
13...	--	96	--	98	--	100	--	--	--	--

11023330 LOS PENASQUITOS CREEK BELOW POWAY CREEK, NEAR POWAY, CA

LOCATION.--Lat 32°56'58", long 117°04'08", in NW¼NE¼NE¼ sec.22, T.14 S., R.2 W., San Diego County, on right bank at Cobblestone Creek Road, 0.2 mi (0.3 km) downstream from confluence of Poway and Pomerado Creeks, and 2.0 mi (3.2 km) southwest of Poway.

DRAINAGE AREA.--31.2 mi² (80.8 km²).

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

GAGE.--Water-stage recorder and rain-gage attachment. Altitude of gage is 415 ft (126 m), from topographic map.

REMARKS.--Records fair. Flow partly regulated by small conservation reservoirs.

AVERAGE DISCHARGE.--6 years, 1.67 ft³/s (0.047 m³/s), 1,210 acre-ft/yr (1.49 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 651 ft³/s (18.4 m³/s) Apr. 8, 1975, gage height, 7.50 ft (2.286 m); no flow for parts of some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 453 ft³/s (12.8 m³/s) Feb. 8, gage height, 7.23 ft (2.204 m); maximum gage height, 7.25 ft (2.210 m) Feb. 6, due to backwater from Beeler Creek (station 11023325); minimum daily, 0.02 ft³/s (0.001 m³/s) Oct. 1 to Nov. 12.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.02	.17	.32	.13	30	.69	.41	.14	.03	.03	.03
2	.02	.02	.15	.24	.13	7.9	.69	.40	.13	.03	.03	.03
3	.02	.02	.17	.24	.33	107	.70	.37	.13	.03	.03	1.4
4	.02	.02	.13	.24	7.3	19	6.9	.39	.10	.04	.03	.87
5	.02	.02	.13	.24	24	10	2.5	.33	.09	.04	.03	.04
6	.02	.02	.13	.24	53	7.0	.98	.66	.09	.03	.03	.04
7	.02	.02	.13	.24	21	5.0	.76	.57	.10	.03	.03	.10
8	.02	.02	.13	.26	115	3.5	1.1	.32	.19	.03	.03	.05
9	.02	.02	.24	.26	82	3.0	2.0	.30	.16	.03	.03	.04
10	.02	.02	.16	.26	24	2.5	3.0	.28	.13	.03	.03	18
11	.02	.02	.17	.24	10	2.0	3.0	.24	.11	.03	.03	9.4
12	.02	.02	4.8	.24	5.7	1.8	3.5	.21	.08	.03	.03	.39
13	.02	.05	2.0	.24	3.5	1.5	45	.22	.08	.03	.03	.28
14	.02	.04	.60	.23	2.4	1.4	4.9	.18	.09	.03	.03	.21
15	.02	.03	.32	.23	2.0	1.3	12	.20	.06	.03	.03	.18
16	.02	.03	.32	.23	1.7	1.3	6.4	.17	.06	.04	.03	.12
17	.02	.03	.30	.21	1.5	1.2	1.6	.17	.06	.03	.03	.10
18	.02	.03	.34	.21	1.4	1.1	1.3	.21	.05	.04	.03	.07
19	.02	.03	.30	.21	1.3	.97	1.3	.18	.04	.03	.03	.06
20	.02	.03	.55	.21	1.2	.93	2.0	.17	.05	.03	.03	.05
21	.02	.05	.44	.18	.96	.90	2.0	.15	.04	.03	.03	.04
22	.02	.03	.28	.18	.82	.84	2.4	.15	.96	.03	.03	.04
23	.02	.03	.44	.18	.82	.77	3.3	.15	.04	.03	.03	.04
24	.02	.03	.34	.28	.79	.95	3.0	.15	.03	.03	.03	.04
25	.02	.03	.32	.23	.79	.74	2.9	.15	.03	.03	.03	.04
26	.02	.03	.30	.17	.80	.73	2.2	.15	.03	.03	.03	.04
27	.02	6.6	.28	.16	.74	.66	1.5	.15	.03	.03	.03	.04
28	.02	14	.28	.16	.74	.66	1.5	.15	.03	.03	.03	.04
29	.02	3.6	.26	.14	.80	.64	.46	.15	.03	.03	.03	.04
30	.02	.27	.24	.13	---	.61	.47	.15	.03	.03	.27	.04
31	.02	---	.58	.13	---	.61	---	.15	---	.03	.03	---
TOTAL	.62	25.18	15.00	6.73	364.85	216.51	120.05	7.63	3.19	.97	1.17	31.86
MEAN	.020	.84	.48	.22	12.6	6.98	4.00	.25	.11	.031	.038	1.06
MAX	.02	14	4.8	.32	115	107	45	.66	.96	.04	.27	.18
MIN	.02	.02	.13	.13	.13	.61	.46	.15	.03	.03	.03	.03
AC-FT	1.2	50	30	13	724	429	238	15	6.3	1.9	2.3	63
(a)	.03	1.23	.46	.02	5.55	2.06	2.18	.09	0	.01	0	1.66
CAL YR 1975	TOTAL	1057.83	MEAN 2.90	MAX 239	MIN .01	AC-FT 2100						
WTR YR 1976	TOTAL	793.76	MEAN 2.17	MAX 115	MIN .02	AC-FT 1570						

a Precipitation, in inches.

LOS PENASQUITOS CREEK BASIN

11023340 LOS PENASQUITOS CREEK NEAR POWAY, CA

LOCATION.--Lat 32°56'35", long 117°07'15", in Los Penasquitos Grant, San Diego County, on left bank 1.0 mi (1.6 km) downstream from Cypress Creek, and 5.5 mi (8.8 km) southwest of Poway.

DRAINAGE AREA.--42.1 mi² (109 km²).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 260 ft (79.2 m), from topographic map.

REMARKS.--Records poor. No gage-height record Nov. 3 to Dec. 1, Apr. 7 to July 9, and Sept. 10-27. Flow partly regulated by several conservation reservoirs above station. Pumping from wells along stream for irrigation. Flow augmented by reclaimed water from Poway area.

AVERAGE DISCHARGE.--12 years, 3.67 ft³/s (0.104 m³/s), 2,660 acre-ft/yr (3.28 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,100 ft³/s (59.5 m³/s) Dec. 6, 1966, gage height, 6.90 ft (2.103 m) in gage well, 7.70 ft (2.35 m), from profile of floodmarks, from rating curve extended above 400 ft³/s (11.3 m³/s) on basis of slope-area measurement at gage height 6.23 ft (1.90 m) in gage well, 7.40 ft (2.26 m), from outside gage; no flow May 16, 17, 1968, July 1, 1972.

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)	
Feb. 6	Unknown	309	8.75	4.16	1.268	Mar. 3	0515	372	10.5	4.40	1.34
Feb. 8	Unknown	*577	16.3	5.07	1.545						

Minimum daily discharge, 0.02 ft³/s (0.001 m³/s) Oct. 1-6.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.04	.50	.25	.22	18	.76	.50	.20	.07	.03	.04
2	.02	.04	.41	.25	.22	10	.76	.50	.20	.07	.03	.04
3	.02	.04	.33	.24	.29	110	.63	.45	.20	.06	.03	.05
4	.02	.04	.29	.24	2.1	47	1.8	.45	.20	.06	.04	.05
5	.02	.04	.25	.23	35	21	4.1	.45	.20	.05	.04	.05
6	.02	.04	.23	.23	84	11	1.4	.80	.20	.05	.04	.05
7	.03	.04	.22	.23	30	7.3	1.7	.60	.22	.05	.04	.04
8	.03	.04	.21	.23	150	5.5	2.5	.50	.25	.05	.04	.05
9	.03	.04	.20	.23	95	4.7	3.5	.40	.23	.04	.04	.05
10	.03	.04	.22	.23	60	4.3	4.0	.35	.22	.04	.04	25
11	.03	.04	.28	.23	29	3.6	4.5	.30	.22	.04	.04	13
12	.03	.04	1.0	.23	14	3.1	5.0	.28	.20	.04	.04	4.0
13	.03	.04	5.9	.23	9.9	2.6	58	.27	.20	.04	.04	1.0
14	.03	.04	1.7	.23	7.8	2.2	6.6	.26	.15	.04	.04	.50
15	.03	.04	.86	.23	6.7	1.9	15	.25	.10	.04	.04	.45
16	.03	.04	.50	.23	5.9	1.6	9.0	.25	.10	.05	.04	.40
17	.03	.04	.29	.23	4.9	1.4	3.0	.24	.10	.05	.04	.40
18	.03	.04	.26	.22	4.3	1.2	2.5	.24	.10	.05	.04	.40
19	.03	.04	.24	.22	4.3	1.2	2.5	.23	.10	.04	.04	.40
20	.03	.04	.22	.20	4.0	1.2	2.5	.23	.10	.07	.04	.40
21	.04	.04	.33	.23	3.9	1.1	3.0	.22	.09	.04	.04	.40
22	.04	.04	.47	.23	3.7	1.0	4.0	.22	.09	.05	.04	.40
23	.04	.04	.39	.22	3.5	1.0	5.0	.21	.08	.05	.04	.40
24	.03	.04	.35	.22	3.4	1.1	4.0	.21	.08	.04	.04	.40
25	.03	.04	.32	.22	2.7	1.2	3.5	.21	.08	.04	.05	.35
26	.03	.04	.31	.22	2.3	.90	2.5	.20	.08	.04	.04	.35
27	.03	9.0	.30	.22	2.3	.86	1.5	.20	.07	.05	.04	.35
28	.04	18	.28	.22	2.1	.86	1.0	.20	.07	.05	.04	.35
29	.03	6.0	.27	.22	2.0	.82	.60	.20	.07	.04	.04	.35
30	.04	1.5	.26	.22	---	.83	.55	.20	.07	.04	.04	.35
31	.04	---	.26	.22	---	.77	---	.20	---	.04	.04	---
TOTAL	.93	35.54	17.65	7.05	573.53	269.24	155.40	9.82	4.27	1.48	1.22	50.07
MEAN	.030	1.18	.57	.23	19.8	8.69	5.18	.32	.14	.048	.039	1.67
MAX	.04	18	5.9	.25	150	110	58	.80	.25	.07	.05	.25
MIN	.02	.04	.20	.20	.22	.77	.55	.20	.07	.04	.03	.04
AC-FT	1.8	70	35	14	1140	534	308	19	8.5	2.9	2.4	99
CAL YR 1975	TOTAL	1264.94	MEAN 3.47	MAX 300	MIN .02	AC-FT 2510						
WTR YR 1976	TOTAL	1126.20	MEAN 3.08	MAX 150	MIN .02	AC-FT 2230						

SAN DIEGUITO RIVER BASIN

11025500 SANTA YSABEL CREEK NEAR RAMONA, CA

LOCATION.--Lat 33°06'25", long 116°51'55", in SW¼NW¼NE¼ sec.27, T.12 S., R.1 E., San Diego County, on left bank 1.6 mi (2.6 km) downstream from Temescal Creek, and 4.5 mi (7.2 km) north of Ramona.

DRAINAGE AREA.--112 mi² (290 km²).

PERIOD OF RECORD.--February 1912 to February 1923, October 1943 to current year. Monthly discharge only for February 1912, published in WSP 1315-B.

GAGE.--Water-stage recorder and concrete cutoff wall, repaired at times. Datum of gage is 847.88 ft (258.434 m) above mean sea level (levels by city of San Diego Water Department). See WSP 1315-A for history of changes prior to Feb. 3, 1923.

REMARKS.--Records fair. Flow regulated by Sutherland Reservoir (see sta 11024000) since July 1954. Some small diversions above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,400 ft³/s (804 m³/s) Jan. 27, 1916, gage height, 14.0 ft (4.27 m) datum then in use, from rating curve extended above 1,500 ft³/s (42.5 m³/s) on basis of slope-conveyance computation of maximum flow; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 107 ft³/s (3.03 m³/s) Feb. 9, gage height, 3.33 ft (1.015 m); no flow for many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.01	0	.02	1.6	.53	.72	.04	.01	0	0
2		0	.01	0	.03	22	.51	.64	.03	.01	.01	0
3		0	.02	.01	.03	22	.49	.60	.03	.01	0	0
4		0	.02	.02	.02	13	.63	.59	.03	.02	0	0
5		0	.03	.02	.01	9.3	.84	.64	.03	.01	0	0
6		0	.03	.03	.01	7.3	1.1	.77	.04	.01	0	0
7		0	.03	.02	.02	5.9	1.1	.91	.03	0	0	0
8		0	.02	.02	3.2	4.9	.95	1.1	.04	0	0	0
9		0	0	.03	50	4.3	.83	1.2	.04	0	0	0
10		0	0	.03	16	3.8	.75	.99	.05	0	0	.01
11		0	0	.03	7.1	3.6	.71	.77	.06	.01	0	.06
12		0	.01	.05	3.7	3.4	.85	.62	.06	.01	0	0
13		0	0	.05	2.6	2.8	7.6	.55	.05	.01	0	0
14		0	0	.03	1.9	2.2	9.8	.42	.04	.01	0	0
15		0	0	.03	1.5	1.9	5.9	.36	.04	.01	0	0
16		0	0	.03	1.2	1.7	20	.31	.03	.01	0	0
17		0	0	.03	1.0	1.5	9.1	.27	.03	.01	0	0
18		0	.01	.03	.84	1.4	4.8	.27	.02	.01	0	0
19		0	0	.02	.76	1.3	3.2	.27	.03	.01	0	0
20		0	.01	0	.63	1.2	2.4	.23	.03	0	0	0
21		0	.01	0	.45	1.1	1.9	.19	.04	.01	0	0
22		.01	.02	0	.35	1.0	1.6	.19	.04	.01	0	0
23		.01	.02	0	.36	.88	1.6	.16	.05	.01	0	0
24		0	.02	.02	.36	.87	1.5	.12	.03	0	0	0
25		0	.01	.02	.31	.87	1.4	.12	.01	0	0	0
26		0	.01	.01	.29	.77	1.2	.07	.02	.01	0	0
27		0	.02	.02	.28	.77	1.1	.07	.01	0	0	0
28		0	.02	.02	.28	.77	.96	.05	.01	0	0	0
29		0	.01	0	.27	.67	.88	.05	.01	0	0	0
30		0	.02	.01	---	.59	.84	.05	0	0	0	0
31		---	.02	.01	---	.57	---	.04	---	0	0	---
TOTAL	0	.02	.38	.59	93.52	123.96	85.07	13.34	.97	.20	.01	.07
MEAN	0	.0007	.012	.019	3.22	4.00	2.84	.43	.032	.007	.0003	.002
MAX	0	.01	.03	.05	50	22	20	1.2	.06	.02	.01	.06
MIN	0	0	0	0	.01	.57	.49	.04	0	0	0	0
AC-FT	0	.04	.8	1.2	185	246	169	26	1.9	.4	.02	.1
CAL YR 1975	TOTAL	524.06	MEAN	1.44	MAX	60	MIN	0	AC-FT	1040		
WTR YR 1976	TOTAL	318.13	MEAN	.87	MAX	50	MIN	0	AC-FT	631		

SAN DIEGUITO RIVER BASIN

11026000 SANTA YSABEL CREEK NEAR SAN PASQUAL, CA

LOCATION.--Lat 33°05'10", long 116°54'56", in NE¼NW¼SE¼ sec.31, T.12 S., R.1 E., San Diego County, on left bank 1.1 mi (1.8 km) downstream from Cleveger Canyon, and 2 mi (3 km) east of San Pasqual.

DRAINAGE AREA.--128 mi² (332 km²).

PERIOD OF RECORD.--December 1905 to September 1910 and May 1911 to September 1912 (published as "near Escondido") April 1947 to November 1955 (irrigation seasons only), April 1956 to current year. Records for October to December 1910, published in WSP 447, have been found to be in error and should not be used.

GAGE.--Water-stage recorder. Concrete control since April 1947. Altitude of gage is 510 ft (155 m), from topographic map. Dec. 17, 1905, to Sept. 30, 1912, nonrecording gage at site 0.2 mi (0.3 km) downstream at different datum.

REMARKS.--Records fair. Flow regulated by Sutherland Reservoir, 9.5 mi (15.3 km) upstream, capacity, 29,680 acre-ft (120 hm³) since July 1954. Small diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 8,000 ft³/s (227 m³/s) Mar. 24, 1906, gage height, 6.3 ft (1.92 m), site and datum then in use; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 131 ft³/s (3.71 m³/s) Feb. 9, gage height, 2.71 ft (0.826 m); no flow Oct. 1 to Feb. 4, June 10 to Sept. 9, Sept. 16-30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	2.8	.52	.52	.02			0
2					0	19	.51	.57	.02			0
3					0	28	.51	.55	.02			0
4					0	12	.68	.55	.01			0
5					.28	7.5	.85	.52	.01			0
6					.32	6.0	.92	.57	.01			0
7					.36	5.2	.95	.65	.01			0
8					.68	4.5	.89	.73	.01			0
9					61	4.0	.76	.70	.01			0
10					18	3.5	.68	.68	0			.84
11					7.7	3.0	.48	.55	0			2.0
12					3.9	2.5	.76	.42	0			.45
13					2.4	2.2	5.7	.29	0			.10
14					1.8	2.0	6.4	.21	0			.06
15					1.5	1.9	5.1	.17	0			.03
16					1.2	1.7	11	.15	0			0
17					1.1	1.5	7.0	.12	0			0
18					.91	1.4	4.0	.10	0			0
19					.80	1.3	2.5	.08	0			0
20					.72	1.2	1.8	.07	0			0
21					.57	1.1	1.6	.06	0			0
22					.42	1.0	1.2	.05	0			0
23					.36	.95	.99	.05	0			0
24					.35	.89	.92	.04	0			0
25					.35	.87	.85	.04	0			0
26					.34	.74	.60	.03	0			0
27					.32	.68	.62	.03	0			0
28					.31	.76	.57	.03	0			0
29					.32	.67	.60	.02	0			0
30					---	.54	.55	.02	0			0
31					---	.52	---	.02	---			---
TOTAL	0	0	0	0	106.01	119.92	60.51	8.59	.12	0	0	3.48
MEAN	0	0	0	0	3.66	3.87	2.02	.28	.004	0	0	.12
MAX	0	0	0	0	61	28	11	.73	.02	0	0	2.0
MIN	0	0	0	0	0	.52	.48	.02	0	0	0	0
AC-FT	0	0	0	0	210	238	120	17	.2	0	0	6.9
CAL YR 1975	TOTAL	481.27	MEAN	1.32	MAX	54	MIN	0	AC-FT	955		
WTR YR 1976	TOTAL	298.63	MEAN	.82	MAX	61	MIN	0	AC-FT	592		

SAN DIEGUITO RIVER BASIN

11027000 GUEJITO CREEK NEAR SAN PASQUAL, CA

LOCATION.--Lat 33°06'57", long 116°57'08", in NW¼NW¼SE¼ sec.23, T.12 S., R.1 W., San Diego County, on left bank 0.3 mi (0.5 km) upstream from Rockwood Canyon Creek, and 1.8 mi (2.9 km) north of San Pasqual.

DRAINAGE AREA.--22.5 mi² (58.3 km²).

PERIOD OF RECORD.--December 1946 to current year.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 560 ft (171 m), from topographic map.

REMARKS.--Records fair. No regulation above station. Diversion for irrigation 0.2 mi (0.3 km) upstream.

AVERAGE DISCHARGE.--29 years (water years 1948-76), 1.37 ft³/s (0.039 m³/s), 993 acre-ft/yr (1.22 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,920 ft³/s (82.7 m³/s) Dec. 6, 1966, gage height, 6.78 ft (2.067 m) from rating curve extended above 440 ft³/s (12.5 m³/s) on basis of slope-area measurements at gage heights 5.83 ft (1.777 m) and 6.30 ft (1.920 m); no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 30 ft³/s (0.85 m³/s) and maximum (*):

Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)
Feb. 9	0230	*72	2.04	2.74	0.835
Mar. 3	0530	38	1.08	2.45	0.747

Minimum daily discharge, no flow many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	.01	0	.01	5.5	.14	.13	.07	.01	.01	0
2	0	0	.01	0	.01	6.7	.13	.12	.05	.01	.01	0
3	.01	0	.01	0	.01	14	.14	.11	.04	.01	.01	0
4	.01	0	.01	0	.02	4.3	.20	.12	.04	.01	.01	0
5	0	0	.01	.01	1.1	2.1	.41	.12	.04	.01	.01	0
6	0	0	.01	.01	3.6	1.4	.36	.14	.04	.01	.01	0
7	0	0	.01	.01	3.0	1.0	.27	.17	.03	.01	.01	0
8	0	0	.01	.01	4.5	.84	.23	.20	.03	.01	.01	0
9	0	.01	.01	.01	27	.66	.23	.18	.03	.01	.01	0
10	0	.01	.01	.01	4.2	.58	.19	.15	.03	.01	.01	.09
11	0	.01	.01	.01	1.7	.58	.13	.12	.03	.01	.01	4.5
12	0	.01	.01	0	1.1	.51	.21	.10	.03	.01	.01	.27
13	0	.01	.01	0	.74	.39	3.0	.08	.03	.01	.01	.08
14	0	.01	.01	.01	.60	.36	1.6	.07	.03	.01	.01	.03
15	0	.01	.01	.01	.53	.36	1.7	.06	.03	.01	.01	.02
16	0	.01	.01	.01	.47	.35	4.8	.06	.03	.01	.01	.02
17	0	.01	.01	.01	.42	.32	1.4	.06	.02	.01	0	.02
18	.01	.01	.01	.01	.36	.31	.75	.06	.02	.01	0	.02
19	.01	.01	.01	.01	.35	.30	.49	.07	.02	.01	0	.01
20	.01	.01	.01	.01	.33	.28	.37	.07	.02	.01	.01	.02
21	0	.01	0	.01	.27	.24	.30	.06	.02	.01	.01	.03
22	0	.01	0	.01	.19	.21	.26	.06	.02	.01	.01	.03
23	.01	.01	0	.01	.16	.19	.24	.05	.02	.01	.01	.03
24	.01	.01	0	.01	.15	.19	.24	.04	.01	.01	0	.04
25	.01	.01	.01	.01	.18	.21	.24	.05	.01	.01	0	.05
26	.01	.01	.01	.01	.20	.20	.22	.06	.01	.01	0	.07
27	.01	.01	.01	.01	.21	.17	.19	.06	.01	.01	0	.06
28	0	.01	.01	.01	.21	.17	.17	.06	.01	.01	0	.04
29	0	.01	.01	.01	.21	.18	.16	.08	.01	.01	0	.04
30	0	.01	0	.01	---	.16	.15	.10	.01	.01	0	.04
31	0	---	.01	.01	---	.14	---	.10	---	.01	0	---
TOTAL	.10	.22	.26	.25	51.83	42.90	18.95	2.91	.79	.31	.20	5.51
MEAN	.003	.007	.008	.008	1.79	1.38	.63	.094	.026	.010	.007	.18
MAX	.01	.01	.01	.01	.27	.14	4.8	.20	.07	.01	.01	4.5
MIN	0	0	0	0	.01	.14	.13	.04	.01	.01	0	0
AC-FT	.2	.4	.5	.5	103	85	38	5.8	1.6	.6	.4	11
CAL YR 1975	TOTAL	194.86	MEAN .53	MAX 23	MIN 0	AC-FT 387						
WTR YR 1976	TOTAL	124.23	MEAN .34	MAX 27	MIN 0	AC-FT 246						

SAN DIEGUITO RIVER BASIN

11028500 SANTA MARIA CREEK NEAR RAMONA, CA

LOCATION.--Lat 33°03'08", long 116°56'41", in SE¼SE¼SE¼ sec.11, T.13 S., R.1 W., San Diego County, on left bank 3.8 mi (6.1 km) northwest of Ramona, and 4.6 mi (7.4 km) upstream from mouth.

DRAINAGE AREA.--57.6 mi² (149.2 km²).

PERIOD OF RECORD.--November 1912 to September 1920, October 1946 to current year.

GAGE.--Water-stage recorder. Concrete control since October 1946. Datum of gage is 1,294.44 ft (394.545 m) above mean sea level. Prior to Oct. 1, 1946, at datum 1.78 ft (0.543 m) lower.

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

AVERAGE DISCHARGE.--37 years (water years 1914-20, 1947-76), 3.26 ft³/s (0.092 m³/s), 2,360 acre-ft/yr (2.91 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,140 ft³/s (202 m³/s) Jan. 27, 1916, gage height, 14.1 ft (4.298 m), from floodmarks, present datum, from rating curve extended above 600 ft³/s (17.0 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 20 ft³/s (0.57 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Feb. 9	0300	*190	5.38	2.60	0.792
Mar. 3	0600	169	4.79	2.52	0.768

Minimum daily discharge, no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	2.8	.05	.01	.02			
2					0		.05	.01	.02			
3					0	76	.08	.02	.02			
4					0		.08	.02	.02			
5					0	2.8	.03	.01	.02			
6					0	1.6	.03	.01	.01			
7					0	1.0	.03	0	.01			
8					93	.79	.02	0	.01			
9					93	.64	.02	.01	.01			
10					0	.57	.02	.01	.01			
11					0	.55	.02	0	0			
12					3.5	.45	.02	0	0			
13					2.5	.33	1.8	0	0			
14					1.5	.26	2.5	0	0			
15					.75	.25	.79	0	0			
16					.60	.23	2.5	.01	0			
17					.45	.24	1.2	.02	0			
18					.30	.23	.43	.01	0			
19					.20	.21	.17	.01	0			
20					.10	.17	.08	.01	0			
21					.05	.14	.03	.01	0			
22					.04	.13	.02	.01	0			
23					.03	.11	.02	.01	0			
24					.02	.08	.02	.02	0			
25					.02	.08	.01	.01	0			
26					.02	.05	.02	.01	0			
27					.03	.05	.02	.01	0			
28					.03	.05	.02	.02	0			
29					.03	.03	.01	.01	0			
30					---	.03	.01	.02	0			
31					---	.05	---	.02	---			
TOTAL	0	0	0	0	138.07	115.92	10.10	.31	.15	0	0	0
MEAN	0	0	0	0	4.76	3.74	.34	.010	.005	0	0	0
MAX	0	0	0	0	93	76	2.5	.02	.02	0	0	0
MIN	0	0	0	0	0	.03	.01	0	0	0	0	0
AC-FT	0	0	0	0	274	230	20	.6	.3	0	0	0
CAL YR 1975	TOTAL 128.92	MEAN .35	MAX 43	MIN 0	AC-FT 256							
WTR YR 1976	TOTAL 264.55	MEAN .72	MAX 93	MIN 0	AC-FT 525							

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11030020 LAKE HODGES NEAR ESCONDIDO, CA

LOCATION.--Lat 33°02'41", long 117°07'39", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.18, T.13 S., R.2 W., San Diego County, on face near left end of Hodges Dam on San Dieguito River, and 6.4 mi (10.3 km) southwest of Escondido.

DRAINAGE AREA.--303 mi² (785 km²).

PERIOD OF RECORD.--October 1945 to September 1968 published with San Dieguito River at Lake Hodges (station 11030000), October 1972 to current year. Records of monthend gage heights February 1919 to September 1945, in files of San Diego County Department of Sanitation and Flood Control.

GAGE.--Water-stage recorder. Datum of gage is 200.0 ft (60.96 m) above mean sea level; gage readings have been reduced to elevations above mean sea level. Prior to Oct. 1, 1972, nonrecording gage at site 800 ft (244 m) upstream on right bank at same datum.

REMARKS.--Reservoir is formed by multiple-arch reinforced concrete dam, constructed in 1917-19. Storage began in February 1919. Capacity table based on a 1948 survey; table dated Sept. 18, 1951. Capacity of reservoir at spillway level, 33,550 acre-ft (41.4 hm³), elevation, 315.0 ft (96.01 m). Dead storage below lowest outlet, 1,160 acre-ft (1.43 hm³), elevation, 254.0 ft (77.42 m) included in these records. Reservoir can be drawn down to 207 acre-ft (255,000 m³), elevation, 240.0 ft (73.15 m) by pumping. Water drawn from Lake Hodges passes through a conduit to San Dieguito re-regulating reservoir, from which it is released as required for municipal use. Flow regulated since July 1954 by Sutherland Reservoir (station 11024000). Diversions for irrigation above Lake Hodges.

COOPERATION.--Gage heights were furnished by San Diego County Department of Sanitation and Flood Control.

EXTREMES FOR PERIOD OF RECORD (1945-68 AND SINCE 1972).--Maximum contents, 37,930 acre-ft (46.8 hm³) Apr. 1, 1946, elevation, 315.30 ft (96.103 m); minimum, 114 acre-ft (141,000 m³) Oct. 31, 1965, elevation, 235.80 ft (71.872 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 4,660 acre-ft (5.75 hm³) Apr. 28, elevation, 271.80 ft (82.845 m); minimum, 2,240 acre-ft (2.76 hm³) Nov. 26, elevation, 261.15 ft (79.599 m).

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	261.80	2370	--
Oct. 31.....	261.40	2290	-80
Nov. 30.....	261.60	2330	+40
Dec. 31.....	262.00	2410	+80
CAL YR 1975.....	--	--	+1190
Jan. 31.....	262.25	2450	+40
Feb. 29.....	268.05	3700	+1250
Mar. 31.....	270.70	4360	+660
Apr. 30.....	271.80	4660	+300
May 31.....	271.50	4850	-80
June 30.....	270.10	4210	-370
July 31.....	269.10	3960	-250
Aug. 31.....	268.55	3820	-140
Sept. 30.....	268.85	3890	+70
WTR YR 1976.....	--	--	+1520

ESCONDIDO CREEK BASIN

11030700 LAKE WOHLFORD NEAR ESCONDIDO, CA

LOCATION.--Lat 33°10'00", long 117°00'14", in NW¼NE¼ sec.5, T.12 S., R.1 W., San Diego County, on face of Lake Wohlford Dam, 330 ft (101 m) left of spillway, 3.9 mi (6.3 km) southeast of Valley Center Post Office, and 5.7 mi (9.2 km) northeast of Escondido.

DRAINAGE AREA.--7.96 mi² (20.62 km²).

PERIOD OF RECORD.--October 1972 to current year. October 1933 to September 1972 in files of San Diego County Department of Sanitation and Flood Control.

GAGE.--Water-stage recorder. Datum of gage is 1,400.0 ft (426.72 m) above mean sea level (levels by city of Escondido Engineering Department); gage readings have been reduced to elevation above mean sea level. Prior to Oct. 1, 1972, nonrecording gage at same site at datum 15.0 ft (4.57 m) lower.

REMARKS.--Reservoir is formed by earthfill dam riprapped upstream and downstream, with concrete spillway anchored to natural rock. Dam was completed in 1932. Capacity table dated March 1955. Capacity at spillway level, 6,940 acre-ft (8.56 hm³), elevation, 1,480.0 ft (451.10 m). Dead storage below lowest outlet, 131 acre-ft (162,000 m³), elevation, 1,420.0 ft (432.82 m). Reservoir storage includes supplemental water diverted from the San Luis Rey River via Escondido Mutual Water Co.'s canal to Lake Wohlford Reservoir. Stored water is released for municipal use by Vista Irrigation District and city of Escondido.

COOPERATION.--Gage heights were furnished by San Diego County Department of Sanitation and Flood Control.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 6,940 acre-ft (8.56 hm³) Apr. 30 to May 10, 1952, elevation, 1,480.0 ft (451.10 m); minimum, 809 acre-ft (997,000 m³) Dec. 1, 1953, elevation, 1,447.5 ft (441.20 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 3,520 acre-ft (4.33 hm³) June 8, elevation, 1,476.9 ft (450.16 m); minimum, 1,180 acre-ft (1.46 hm³) Nov. 21, elevation, 1,457.3 ft (444.19 m).

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	1450.0	1910	--
Oct. 31.....	1458.8	1300	-610
Nov. 30.....	1464.9	1900	+600
Dec. 31.....	1464.3	1830	-70
CAL YR 1975.....	--	--	+590
Jan. 31.....	1462.4	1630	-200
Feb. 29.....	1467.7	2220	+590
Mar. 31.....	1473.1	2940	+720
Apr. 30.....	1476.7	3480	+540
May 31.....	1476.6	3470	-10
June 30.....	1473.6	3010	-460
July 31.....	1474.5	3140	+130
Aug. 31.....	1472.4	2840	-300
Sept. 30.....	1475.5	3290	+450
WTR YR 1976.....	--	--	+1380

11031500 AGUA CALIENTE CREEK NEAR WARNER SPRINGS, CA

LOCATION.--Lat 33°17'19", long 116°39'11", in San Jose del Valle Grant, San Diego County, on downstream end of right pier of bridge on State Highway 79, 1.2 mi (1.9 km) upstream from Canada Verde Creek, and 1.2 mi (1.9 km) northwest of Warner Springs.

DRAINAGE AREA.--19.0 mi² (49.2 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 2,950 ft (899 m), from topographic map. Prior to Jan. 29, 1966, at site 120 ft (37 m) upstream at same datum, used as supplementary gage since Dec. 12, 1968.

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

AVERAGE DISCHARGE.--15 years, 1.02 ft³/s (0.029 m³/s), 739 acre-ft/yr (911,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,200 ft³/s (34.0 m³/s) Dec. 6, 1966, gage height, 5.18 ft (1.579 m), from rating curve extended above 240 ft³/s (6.80 m³/s); no flow for much of each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 50 ft³/s (1.42 m³/s) and maximum (*), from rating curve extended above 20 ft³/s (0.57 m³/s) on basis of slope-conveyance measurement:

Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)
Feb. 9	0330	*220	6.23	3.52	1.073
Sept. 10	1400	138	3.91	3.07	0.936

Minimum daily discharge, no flow for many months.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	1.4	0					0
2					0	5.9	0					0
3					0	3.7	0					0
4					0	3.3	0					0
5					0	3.5	0					0
6					7.7	3.5	0					0
7					12	3.5	0					0
8					5.8	3.3	0					0
9					82	2.6	0					0
10					21	2.1	0					14
11					8.6	1.5	0					12
12					5.3	1.2	0					.68
13					3.1	.76	0					0
14					1.8	.60	0					0
15					1.2	.33	.55					0
16					.72	.22	4.6					0
17					.50	.18	2.6					0
18					.35	.14	.85					0
19					.25	.10	.27					0
20					.18	.07	.04					0
21					.14	.06	0					0
22					.11	.04	0					0
23					0	.02	0					0
24					0	0	0					0
25					0	0	0					0
26					0	0	0					0
27					0	0	0					0
28					0	0	0					0
29					0	0	0					0
30					---	0	0					0
31		---			---	0	---		---			---
TOTAL	0	0	0	0	150.75	38.02	8.91	0	0	0	0	26.68
MEAN	0	0	0	0	5.20	1.23	.30	0	0	0	0	.89
MAX	0	0	0	0	82	5.9	4.6	0	0	0	0	14
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	299	75	18	0	0	0	0	53
CAL YR 1975	TOTAL	93.02	MEAN .25	MAX 21	MIN 0	AC-FT 185						
WTR YR 1976	TOTAL	224.36	MEAN .61	MAX 82	MIN 0	AC-FT 445						

SAN LUIS REY RIVER BASIN

11033000 WEST FORK SAN LUIS REY RIVER NEAR WARNER SPRINGS, CA

LOCATION.--Lat 33°17'48", long 116°45'32", in San Jose del Valle Grant, San Diego County, on left bank 0.2 mi (0.3 km) upstream from Fink Road, 2.6 mi (4.2 km) upstream from mouth, and 7.5 mi (12.1 km) west of Warner Springs.

DRAINAGE AREA.--25.5 mi² (66.0 km²).

PERIOD OF RECORD.--January 1913 to November 1915, October 1956 to current year. Low-flow records not equivalent prior to Nov. 5, 1971, due to undetermined amount of underflow between sites.

REVISED RECORDS.--WDR CA-74: 1973(P).

GAGE.--Water-stage recorder. Altitude of gage is 2,800 ft (853 m), from topographic map. Prior to Oct. 1, 1956, at different datum. Prior to Nov. 5, 1971, at site 500 ft (152 m) downstream at same datum.

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

AVERAGE DISCHARGE.--21 years (water years 1914-15, 1957-76), 6.76 ft³/s (0.191 m³/s), 4,900 acre-ft/yr (6.04 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,200 ft³/s (119 m³/s) Dec. 6, 1966, gage height, 11.87 ft (3.618 m), from rating curve extended above 250 ft³/s (7.08 m³/s) on basis of slope-area measurement of maximum flow; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft³/s (2.83 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)
Feb. 9	Unknown	232	6.57	11.25	3.429						
Mar. 1	2045	*290	8.21	11.40	3.475	Apr. 15	2230	187	5.30	11.12	3.389

Minimum daily discharge, no flow several months.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.01		0	52	.87	1.7	.37	.01		
2		0	0		0	42	.87	1.5	.32	0		
3		0	0		0	16	.87	1.6	.30	0		
4		0	0		0	13	1.2	1.6	.22	0		
5		0	0		7.0	13	2.3	1.7	.22	0		
6		0	0		10	13	2.6	1.4	.30	0		
7		0	0		6.5	16	2.6	1.8	.22	0		
8		0	0		5.0	15	1.8	2.3	.20	0		
9		0	0		70	12	1.2	1.9	.18	0		
10		0	0		50	9.9	.90	1.7	.18	0		
11		0	0		15	9.0	.74	1.5	.18	0		
12		0	0		7.7	8.6	.90	1.1	.18	0		
13		0	0		6.1	7.8	5.1	.80	.18	0		
14		0	0		5.2	7.4	5.9	.77	.18	0		
15		0	0		4.5	7.2	14	.63	.18	0		
16		0	0		4.0	6.9	12	.60	.18	0		
17		0	0		3.6	6.7	9.0	.54	.18	0		
18		0	0		3.3	6.0	6.0	.54	.17	0		
19		0	0		3.1	4.0	4.5	.46	.15	0		
20		0	0		2.8	2.6	3.9	.46	.14	0		
21		0	0		2.6	1.9	3.6	.46	.14	0		
22		0	0		2.5	1.3	3.6	.37	.12	0		
23		0	0		2.2	1.0	3.5	.38	.13	0		
24		0	0		2.0	.90	3.3	.41	.12	0		
25		0	0		2.0	.78	2.9	.32	.11	0		
26		0	0		2.2	.76	2.5	.30	.10	0		
27		0	0		2.3	.74	2.6	.25	.07	0		
28		.02	0		2.3	.74	2.5	.18	.05	0		
29		.01	0		2.0	.74	2.3	.22	.04	0		
30		.01	0		---	.87	2.0	.32	.02	0		
31		---	0		---	.74	---	.43	---	0		---
TOTAL	0	.04	.01	0	223.9	278.57	106.05	28.24	5.13	.01	0	0
MEAN	0	.001	.0003	0	7.72	8.99	3.54	.91	.17	.0003	0	0
MAX	0	.02	.01	0	70	52	14	2.3	.37	.01	0	0
MIN	0	0	0	0	0	.74	.74	.18	.02	0	0	0
AC-FT	0	.08	.02	0	444	553	210	56	10	.02	0	0
CAL YR 1975	TOTAL	1000.99	MEAN 2.74	MAX 55	MIN 0	AC-FT 1990						
WTR YR 1976	TOTAL	641.95	MEAN 1.75	MAX 70	MIN 0	AC-FT 1270						

SAN LUIS REY RIVER BASIN

11037700 PAUMA CREEK NEAR PAUMA VALLEY, CA

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LOCATION.--Lat 33°20'10", long 116°58'25", in Pauma Grant, San Diego County, on right bank 0.3 mi (0.5 km) downstream from unnamed tributary, and 2.2 mi (3.5 km) north of Pauma Valley.

DRAINAGE AREA.--11.0 mi² (28.5 km²).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder on creek; water-stage recorder and Parshall flume on diversion. Altitude of creek gage is 1,240 ft (378 m), from topographic map. Diversion gage is at different datum.

REMARKS.--Records fair. No regulation above station. Pauma Valley Water Co. diverts from a site 0.2 mi (0.3 km) upstream. For records of combined discharge of Pauma Creek and Pauma Valley Water Co.'s diversion, see following page.

AVERAGE DISCHARGE.--Creek only: 12 years, 3.11 ft³/s (0.088 m³/s), 2,250 acre-ft/yr (2.77 hm³/yr).
Combined creek and diversion: 12 years, 3.79 ft³/s (0.107 m³/s), 2,750 acre-ft/yr (3.39 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Creek only: Maximum discharge, 2,100 ft³/s (59.9 m³/s) Dec. 6, 1966, gage height, 8.60 ft (2.621 m), from rating curve extended above 110 ft³/s (3.12 m³/s) on basis of slope-area measurement of 1,360 ft³/s (38.5 m³/s); no flow much of each year.
Combined creek and diversion: Maximum discharge, 2,100 ft³/s (59.5 m³/s) Dec. 6, 1966; minimum daily, 0.04 ft³/s (0.001 m³/s) July 29 to Aug. 2, 1972.

EXTREMES FOR CURRENT YEAR.--Creek only: Maximum discharge, 33 ft³/s (0.93 m³/s) Mar. 1, gage height, 3.40 ft (1.036 m), no peak above base of 50 ft³/s (15.2 m³/s); no flow many days.
Combined creek and diversion: Maximum discharge, 33 ft³/s (0.93 m³/s) Mar. 1; minimum daily, 0.05 ft³/s (0.001 m³/s) Aug. 31.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.01	.80	.62	.19	8.4	1.4	.80	.05			0
2	0	.01	.62	.62	.15	11	.62	.74	.05			0
3	0	.01	.56	.62	.15	7.0	.56	.74	.05			0
4	0	.05	.62	.62	1.3	5.5	.93	.74	.05			0
5	0	.05	.62	.56	10	5.0	1.4	.80	.05			0
6	0	.05	.38	.56	11	4.5	1.6	.93	.03			0
7	0	.05	.07	.56	9.1	4.0	1.5	1.4	.03			0
8	0	.05	.01	.56	10	4.1	.93	1.3	.03			0
9	0	.05	0	.56	21	4.3	.80	1.0	.01			0
10	0	.05	0	.56	12	4.6	.74	.80	.01			.10
11	.04	.05	0	.56	7.7	4.3	.62	.62	.01			4.0
12	.09	.05	1.3	.56	5.6	3.9	.74	.44	0			1.0
13	.09	.05	1.3	.44	4.6	3.3	2.9	.32	0			.70
14	.07	.05	.74	.11	4.1	3.1	3.4	.15	0			.39
15	.05	.05	.62	.07	3.5	3.0	6.3	.11	0			.03
16	.03	.05	.38	.09	3.0	2.8	11	.11	0			.03
17	.03	.05	.32	.09	2.8	2.7	6.8	.09	0			.03
18	.03	.05	.19	.09	2.5	2.6	5.9	.09	0			.01
19	.03	.07	.15	.09	2.4	2.3	4.4	.07	0			.01
20	.03	.11	.11	.11	2.1	2.2	3.2	.07	0			.01
21	.03	.19	.09	.11	1.6	2.0	3.0	.05	0			.01
22	.03	.19	.11	.11	1.4	1.8	3.0	.05	0			.01
23	.01	.19	.29	.11	1.4	1.7	2.9	.05	0			.01
24	.01	.19	.50	.15	1.4	1.9	2.3	.05	0			.01
25	.01	.19	.56	.15	1.4	2.2	1.8	.05	0			.01
26	.01	.19	.56	.15	1.3	2.1	1.6	.05	0			.01
27	.01	.28	.44	.15	1.3	1.6	1.5	.05	0			.01
28	.01	2.5	.23	.15	1.2	.93	1.3	.03	0			.01
29	.01	1.9	.23	.15	1.2	.86	1.2	.03	0			.01
30	.01	1.0	.32	.15	---	.78	1.0	.03	0			.01
31	.01	---	.56	.19	---	1.7	---	.05	---			---
TOTAL	.64	7.78	11.51	9.62	125.39	106.17	75.34	11.81	.37	0	0	6.41
MEAN	.021	.26	.37	.31	4.32	3.42	2.51	.38	.012	0	0	.21
MAX	.09	2.5	1.3	.62	21	11	11	1.4	.05	0	0	4.0
MIN	0	.01	0	.07	.15	.78	.56	.03	0	0	0	0
AC-FT	1.3	15	23	19	249	211	149	23	.7	0	0	13
CAL YR 1975	TOTAL	703.43	MEAN	1.93	MAX	31	MIN	0	AC-FT	1400		
WTR YR 1976	TOTAL	355.04	MEAN	.97	MAX	21	MIN	0	AC-FT	704		

SAN LUIS REY RIVER BASIN

11037700 PAUMA CREEK NEAR PAUMA VALLEY, CA--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF PAUMA CREEK AND PAUMA VALLEY
WATER CO.'S DIVERSION NEAR PAUMA VALLEY, CA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.09	.36	1.0	.88	.66	8.9	2.1	2.3	1.2	.23	.26	.06
2	.09	.36	.86	.86	.62	11	1.8	2.2	1.1	.28	.24	.06
3	.09	.34	.81	.87	.62	7.1	1.8	2.2	1.1	.32	.23	.07
4	.08	.37	.87	.86	1.8	5.6	2.1	2.2	1.0	.33	.22	.10
5	.08	.36	.87	.80	10	5.1	2.6	2.3	.94	.28	.19	.11
6	.08	.38	.92	.80	11	4.6	2.6	2.4	.94	.22	.17	.20
7	.09	.38	.77	.80	9.4	4.3	2.6	2.9	.92	.17	.15	.20
8	.08	.39	.65	.80	10	4.6	2.3	2.8	.89	.14	.12	.13
9	.09	.38	.61	.80	21	4.8	2.2	2.5	.96	.15	.12	.12
10	.10	.37	.61	.80	12	5.1	2.1	2.3	1.2	.16	.11	.89
11	.19	.34	.62	.80	7.8	4.8	2.0	2.1	1.3	.19	.09	4.5
12	.38	.32	.71	.80	5.7	4.4	2.1	1.9	1.1	.22	.08	1.5
13	.38	.31	1.9	.79	4.7	3.8	4.5	1.8	.81	.25	.08	1.2
14	.35	.31	1.3	.63	4.2	3.6	4.3	1.7	.67	.28	.10	1.1
15	.29	.33	1.2	.59	3.8	3.5	7.2	1.6	.58	.27	.13	1.3
16	.27	.34	.90	.61	3.4	3.3	11	1.6	.55	.30	.21	1.3
17	.27	.35	.86	.61	3.2	3.2	6.8	1.5	.54	.31	.24	1.3
18	.28	.37	.78	.61	2.9	3.1	5.9	1.5	.54	.27	.21	1.3
19	.31	.37	.74	.60	2.7	3.0	5.2	1.5	.53	.24	.21	1.3
20	.32	.40	.69	.62	2.5	3.0	4.4	1.5	.51	.21	.21	1.3
21	.33	.46	.67	.61	2.3	2.9	4.0	1.4	.49	.19	.19	1.3
22	.34	.46	.67	.61	2.0	2.6	3.6	1.4	.48	.19	.17	1.3
23	.33	.46	.61	.60	2.0	2.5	3.5	1.4	.47	.22	.13	1.3
24	.30	.46	.66	.64	2.0	2.2	3.5	1.4	.41	.17	.11	1.3
25	.29	.46	.72	.64	1.9	2.2	3.2	1.5	.36	.18	.10	1.3
26	.30	.46	.71	.62	1.8	2.1	3.0	1.4	.33	.29	.09	1.3
27	.31	.55	.67	.62	1.8	2.3	2.9	1.2	.29	.42	.08	1.3
28	.31	2.8	.66	.62	1.7	2.3	2.8	1.2	.26	.39	.08	1.3
29	.30	2.2	.61	.62	1.7	2.4	2.7	1.3	.25	.34	.07	1.3
30	.33	1.2	.68	.62	---	2.1	2.5	1.4	.24	.34	.07	1.3
31	.35	---	.84	.66	---	1.7	---	1.4	---	.33	.05	---
TOTAL	7.40	16.64	25.17	21.79	135.20	122.1	107.3	55.8	20.96	7.88	4.51	31.04
MEAN	.24	.55	.81	.70	4.66	3.94	3.58	1.80	.70	.25	.15	1.03
MAX	.38	2.8	1.9	.88	21	11	11	2.9	1.3	.42	.26	4.5
MIN	.08	.31	.61	.59	.62	1.7	1.8	1.2	.24	.14	.05	.06
AC-FT	15	33	50	43	268	242	213	111	42	16	8.9	62
CAL YR 1975	TOTAL	920.83	MEAN	2.52	MAX	31	MIN	.08	AC-FT	1830		
WTR YR 1976	TOTAL	555.79	MEAN	1.52	MAX	21	MIN	.05	AC-FT	1100		

11040000 SAN LUIS REY RIVER AT MONSERATE NARROWS, NEAR PALA, CA

LOCATION.--Lat 33°20'14", long 117°08'07", in SW¼SE¼NW¼ sec.6, T.10 S., R.2 W., San Diego County, on left bank 4 mi (6 km) southwest of Pala, 6 mi (10 km) northeast of Bonsall, and 27 mi (43 km) downstream from Lake Henshaw.

DRAINAGE AREA.--373 mi² (966 km²).

PERIOD OF RECORD.--December 1935 to March 1938 (fragmentary), April 1938 to November 1941, October 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 270.82 ft (82.546 m) above mean sea level (levels by State of California). Prior to October 1946, at same site at different datum. Oct. 22, 1946, to Nov. 30, 1954, at datum 1.0 ft (0.30 m) higher.

REMARKS.--Records fair. Flow regulated by Lake Henshaw, capacity, 194,300 acre-ft (240 hm³). Several diversions above station.

AVERAGE DISCHARGE.--33 years (water years 1939-41, 1947-76), 6.19 ft³/s (0.175 m³/s), 4,480 acre-ft/yr (5.52 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge since 1946, 7,000 ft³/s (198 m³/s) Dec. 6, 1966, gage height, 6.70 ft (2.042 m); maximum gage height, 8.7 ft (2.65 m) Feb. 7, 1937, datum then in use, discharge not determined; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22 ft³/s (0.62 m³/s) Mar. 1, gage height, 4.30 ft (1.308 m); no flow for several months.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.11	.30	.30	6.3	1.0	.71	.92			0
2		0	.19	.19	.19	4.2	1.0	1.0	.53			0
3		0	.13	.19	.22	7.0	1.0	1.0	.43			0
4		0	.13	.19	1.1	3.8	1.7	1.0	.53			0
5		0	.16	.19	2.4	2.8	1.6	1.0	.43			0
6		0	.13	.16	3.3	2.5	1.4	1.0	.38			0
7		0	.13	.15	3.0	2.4	1.4	1.2	.22			0
8		0	.13	.13	10	2.2	1.3	1.1	.16			0
9		0	.16	.16	19	2.2	1.3	.92	.17			0
10		0	.16	.09	4.7	2.1	1.3	.71	.34			.14
11		0	.38	.07	3.3	1.9	1.3	.64	.30			4.1
12		0	.54	.19	2.8	1.9	1.7	.78	.11			1.1
13		0	.92	.22	2.5	1.7	5.3	.72	.03			.85
14		0	.58	.26	2.2	1.8	2.8	.85	.16			.92
15		0	.38	.22	2.1	1.7	3.3	.78	.12			.92
16		0	.38	.16	2.1	1.5	3.4	.71	.05			.85
17		0	.38	.16	2.1	1.5	2.1	.64	0			.71
18		0	.38	.16	2.0	1.5	1.8	1.0	0			.64
19		0	.38	.11	2.1	1.5	1.6	.78	0			.78
20		0	.43	.07	2.0	1.5	1.5	.85	0			.78
21		0	.48	.06	2.0	1.4	1.4	.64	0			.85
22		0	.48	.06	2.0	1.4	1.2	.71	0			.78
23		0	.43	.05	2.1	1.2	1.2	.92	0			.64
24		0	.38	.04	2.1	1.1	1.1	.85	0			.58
25		0	.43	.04	2.0	1.2	1.1	.92	0			.58
26		0	.38	.04	2.0	1.0	1.1	1.1	0			.58
27		0	.34	.04	2.0	1.1	1.0	1.1	0			.53
28		.46	.34	.06	1.9	1.1	.92	1.5	0			.53
29		.58	.26	.07	1.9	1.0	.78	1.4	0			.48
30		.16	.26	.26	---	.92	.85	1.0	0			.34
31		---	.30	.43	---	.92	---	.85	---			---
TOTAL	0	1.20	10.26	4.52	85.41	64.34	48.45	28.38	4.88	0	0	17.68
MEAN	0	.040	.33	.15	2.95	2.08	1.62	.92	.16	0	0	.59
MAX	0	.58	.92	.43	19	7.0	5.3	1.5	.92	0	0	4.1
MIN	0	0	.11	.04	.19	.92	.78	.64	0	0	0	0
AC-FT	0	2.4	20	9.0	169	128	96	56	9.7	0	0	35
CAL YR 1975	TOTAL	78.54	MEAN .22	MAX	4.3	MIN 0	AC-FT 156					
WTR YR 1976	TOTAL	265.12	MEAN .72	MAX	19	MIN 0	AC-FT 526					

SAN LUIS REY RIVER BASIN

11040200 KEYS CREEK TRIBUTARY AT VALLEY CENTER, CA

LOCATION.--Lat 33°13'45", long 117°02'09", in NW¼SE¼SE¼ sec.12, T.11 S., R.2 W., San Diego County, on left bank 140 ft (43 m) upstream from bridge on Valley Center Road, 0.3 mi (0.48 km) downstream from unnamed tributary, and 0.8 mi (1.3 km) north of Valley Center.

DRAINAGE AREA.--7.65 mi² (19.81 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 1,279.99 ft (390.141 m) above mean sea level (San Diego County Special District Services bench mark).

REMARKS.--Records good. No regulation above station. Some pumping for irrigation above station.

AVERAGE DISCHARGE.--6 years, 0.34 ft³/s (0.010 m³/s), 246 acre-ft/yr (303,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 304 ft³/s (8.61 m³/s) Jan. 8, 1974, gage height, 3.86 ft (1.177 m); no flow for part of each year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 25, 1969, 990 ft³/s (28 m³/s), by San Diego County Special District Services.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 40 ft³/s (1.13 m³/s) and maximum (*), based on slope-conveyance measurement of peak flow:

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Feb. 8	2230	*165	4.67	3.91	1.192
Mar. 3	0145	67	1.90	3.60	1.097

Minimum daily discharge, no flow during parts of October, June to September.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.03	.05	.04	.04	12	.06	.04	.07	0		0
2	0	.02	.05	.04	.05	1.7	.07	.04	.06	0		0
3	0	.02	.05	.05	.05	21	.17	.02	.05	0		0
4	0	.02	.06	.05	.13	1.3	.10	.01	.05	0		0
5	0	.02	.06	.05	.97	.67	.09	.04	.05	0		0
6	0	.02	.05	.05	3.2	.45	.09	.05	.04	0		0
7	0	.02	.05	.05	1.6	.32	.07	.05	.04	0		0
8	0	.02	.05	.05	35	.27	.07	.06	.04	0		0
9	0	.02	.05	.04	31	.28	.05	.05	.04	.05		0
10	0	.01	.05	.04	1.4	.24	.06	.06	.05	0		6.0
11	0	.02	.05	.04	.29	.23	.06	.05	.05	0		.50
12	.01	.01	.06	.04	.21	.20	.07	.05	.04	0		.14
13	.01	.01	.06	.05	.15	.14	2.2	.05	.04	0		.12
14	.01	.01	.06	.05	.12	.13	.46	.05	.04	0		.12
15	0	.01	.06	.05	.10	.11	3.8	.05	.04	0		.11
16	0	.02	.06	.04	.09	.08	2.0	.04	.03	.01		.09
17	0	.03	.05	.04	.07	.08	.30	.05	.02	.01		.08
18	0	.03	.06	.04	.06	.07	.17	.07	.02	0		.08
19	0	.03	.06	.04	.06	.07	.10	.06	.01	0		.11
20	.01	.02	.07	.04	.04	.07	.08	.05	.02	0		.07
21	.01	.02	.05	.05	.04	.07	.08	.05	.02	0		.06
22	.01	.02	.05	.04	.03	.07	.07	.04	.01	0		.04
23	.01	.03	.05	.05	.03	.07	.07	.05	.01	0		.04
24	.01	.02	.05	.05	.02	.07	.06	.05	0	0		.04
25	.01	.02	.06	.05	.02	.07	.07	.06	0	0		.04
26	.01	.01	.06	.05	.02	.08	.06	.09	0	0		.03
27	.01	.06	.06	.05	.02	.08	.06	.06	0	0		.02
28	.02	.25	.06	.05	.02	.08	.05	.06	0	0		.01
29	.02	.09	.04	.05	.02	.07	.05	.06	0	0		.01
30	.02	.05	.05	.04	---	.06	.04	.06	0	0		.01
31	.02	---	.05	.05	---	.06	---	.07	---	0		---
TOTAL	.19	.96	1.69	1.42	74.85	40.19	10.68	1.59	.84	.07	0	7.72
MEAN	.006	.032	.055	.046	2.58	1.30	.36	.051	.028	.002	0	.26
MAX	.02	.25	.07	.05	35	21	3.8	.09	.07	.05	0	6.0
MIN	0	.01	.04	.04	.02	.06	.04	.01	0	0	0	0
AC-FT	.4	1.9	3.4	2.8	148	80	21	3.2	1.7	.1	0	15
CAL YR 1975	TOTAL	116.75	MEAN .32	MAX 29	MIN 0	AC-FT 232						
WTR YR 1976	TOTAL	140.20	MEAN .38	MAX 35	MIN 0	AC-FT 278						

SAN LUIS REY RIVER BASIN

11041000 SAN LUIS REY RIVER NEAR BONSALL, CA

LOCATION.--Lat 33°15'13", long 117°14'48", in SW¼NE¼NE¼ sec.1, T.11 S., R.4 W., San Diego County, on left bank 0.7 mi (1.1 km) downstream from bridge on State Highway 76, and 2.8 mi (4.5 km) southwest of Bonsall.

DRAINAGE AREA.--513 mi² (1,330 km²).

PERIOD OF RECORD.--July 1916 to September 1918 (gage heights and discharge measurements only), October 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is 108.10 ft (32.949 m) above mean sea level. See WSP 1315-B, 1735 for history of changes prior to Sept. 16, 1946.

REMARKS.--Records fair. Flow regulated by Lake Henshaw, capacity, 194,300 acre-ft (240 hm³). Several diversions above station.

AVERAGE DISCHARGE.--47 years, 17.1 ft³/s (0.484 m³/s), 12,390 acre-ft/yr (15.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,100 ft³/s (513 m³/s) Mar. 3, 1938, gage height, 16.04 ft (4.889 m), present datum, from rating curve extended above 2,400 ft³/s (68.0 m³/s); no flow for part of most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 449 ft³/s (12.7 m³/s) Feb. 9, gage height, 9.02 ft (2.749 m); minimum daily, 0.32 ft³/s (0.009 m³/s) Aug. 23-25, Sept. 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	3.1	7.7	7.4	8.0	20	13	8.1	4.4	1.0	1.1	.38
2	1.4	3.2	7.1	7.3	8.0	76	13	7.7	4.4	1.0	.89	.38
3	1.4	3.4	6.8	6.8	8.2	71	13	7.8	4.4	.92	.74	.32
4	1.4	3.4	6.5	6.9	9.4	80	13	7.7	4.2	.89	.78	.56
5	1.4	3.4	6.3	6.9	16	45	12	7.4	4.0	.83	.73	.60
6	1.5	3.5	6.4	7.4	28	37	12	7.3	3.9	.87	.62	1.2
7	1.8	3.4	6.6	7.2	35	34	12	7.3	3.9	.88	.52	1.5
8	2.1	3.5	6.8	7.1	34	31	12	7.6	3.9	.78	.47	1.6
9	2.2	3.5	6.5	7.2	210	30	12	7.4	3.9	.69	.41	1.5
10	2.2	3.7	6.1	7.4	126	28	11	7.2	3.8	.70	.41	3.3
11	2.4	3.7	6.1	7.5	53	27	10	7.1	3.9	.80	.38	11
12	2.6	3.7	6.4	7.3	36	26	11	6.6	3.7	.87	.41	29
13	2.7	3.5	7.2	7.4	30	25	13	6.5	3.6	.87	.45	12
14	2.6	3.3	7.8	7.2	26	23	24	6.1	3.6	.84	.41	8.1
15	2.4	3.4	7.4	6.8	25	23	20	5.9	3.5	.78	.41	7.3
16	2.2	3.6	7.0	6.9	23	22	22	5.6	3.4	.90	.38	6.8
17	2.2	4.0	6.8	7.0	22	21	25	5.3	3.1	.94	.35	6.3
18	2.4	4.1	6.9	7.0	22	21	19	5.1	2.9	.91	.38	5.9
19	2.5	4.1	7.0	7.1	21	20	17	5.2	2.7	.77	.38	5.7
20	2.4	4.0	7.1	7.3	21	20	16	5.0	2.6	.62	.38	5.6
21	2.6	4.0	7.8	7.0	20	19	15	4.7	2.4	.60	.38	5.5
22	2.8	4.1	8.4	7.0	19	18	14	4.4	2.2	.60	.35	5.7
23	2.8	4.1	8.1	6.9	19	17	13	4.3	2.0	.68	.32	5.8
24	2.6	4.1	7.9	7.2	19	17	12	4.1	1.7	.69	.32	5.7
25	2.4	4.3	7.9	7.5	18	16	12	4.1	1.5	.77	.32	5.7
26	2.3	4.3	7.7	7.7	17	16	12	4.1	1.3	1.1	.35	5.3
27	2.5	4.7	7.6	7.5	17	16	12	4.1	1.1	1.5	.35	5.2
28	2.7	6.6	7.4	7.6	17	16	10	4.4	1.1	1.8	.41	5.1
29	2.8	9.1	6.9	7.7	17	16	9.0	4.9	1.2	1.9	.41	4.6
30	2.9	9.3	7.1	7.7	---	14	8.5	4.9	1.1	1.5	.41	4.6
31	3.0	---	7.2	7.6	---	13	---	4.7	---	1.3	.41	---
TOTAL	70.5	126.1	220.5	224.5	924.6	858	417.5	182.6	89.4	29.30	14.63	162.24
MEAN	2.27	4.20	7.11	7.24	31.9	27.7	13.9	5.89	2.98	.95	.47	5.41
MAX	3.0	9.3	8.4	7.7	210	80	25	8.1	4.4	1.9	1.1	29
MIN	1.3	3.1	6.1	6.8	8.0	13	8.5	4.1	1.1	.60	.32	.32
AC-FT	140	250	437	445	1830	1700	828	362	177	58	29	322
CAL YR 1975	TOTAL	2916.68	MEAN	7.99	MAX	108	MIN	.70	AC-FT	5790		
WTR YR 1976	TOTAL	3319.87	MEAN	9.07	MAX	210	MIN	.32	AC-FT	6580		

SAN LUIS REY RIVER BASIN

11042000 SAN LUIS REY RIVER AT OCEANSIDE, CA

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

DRAINAGE AREA.--558 mi² (1,450 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1912 to September 1914 (published as "near Oceanside"), January 1916, October 1929 to January 1942, October 1946 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 20 ft (6.1 m), from topographic map. April 1912 to September 1914, nonrecording gage at site 0.8 mi (1.3 km) upstream at different datum. January 1916, nonrecording gage 0.2 mi (0.3 km) downstream at different datum.

REMARKS.--Records fair. Flow regulated by Lake Henshaw, capacity, 194,300 acre-ft (240 hm³). Several diversions for irrigation and domestic use above station. AVERAGE DISCHARGE represents flow to ocean during period of record regardless of upstream development.

AVERAGE DISCHARGE.--44 years (water years 1913-14, 1930-41, 1947-76), 14.5 ft³/s (0.411 m³/s), 10,510 acre-ft/yr (13.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 95,600 ft³/s (2,710 m³/s) Jan. 27, 1916, from hydrograph based on discharge measurements; no flow for several months in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 154 ft³/s (4.36 m³/s) Feb. 10, gage height, 8.74 ft (2.664 m); minimum daily, 0.80 ft³/s (0.023 m³/s) Aug. 22-24.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	2.2	8.2	4.9	5.6	22	14	10	3.0	1.8	1.3	.91
2	2.2	2.0	5.5	8.7	5.5	42	13	9.8	3.0	1.7	1.2	.85
3	2.5	2.2	3.6	5.9	5.9	65	13	9.4	2.8	1.7	1.2	.85
4	2.5	2.4	3.2	4.0	8.5	81	14	9.1	2.7	1.7	1.2	.97
5	2.5	2.6	3.0	3.9	13	84	15	8.7	2.7	1.9	1.2	.97
6	2.5	2.6	2.9	3.8	18	66	14	8.7	2.7	1.9	1.2	1.0
7	2.6	2.7	2.9	3.9	27	49	14	8.8	2.7	2.0	1.2	.97
8	2.5	2.7	3.0	4.0	44	43	14	7.8	2.5	1.9	1.3	.91
9	2.0	2.9	3.2	5.0	75	38	14	7.2	2.4	1.7	1.2	.85
10	2.0	2.7	3.3	4.2	123	35	13	7.1	2.4	1.7	1.2	5.1
11	2.6	2.7	3.3	4.1	120	32	12	6.9	2.3	1.7	1.1	4.0
12	2.7	2.5	3.4	4.2	83	30	12	6.8	2.3	1.7	1.2	3.5
13	2.6	2.2	4.9	4.3	62	28	.16	6.5	2.4	1.7	1.1	3.1
14	2.6	2.2	7.6	4.4	45	27	17	6.4	2.3	1.6	1.1	2.9
15	2.3	2.2	8.1	4.4	37	26	19	5.9	2.2	1.6	1.0	2.7
16	2.2	2.5	6.1	4.2	32	24	28	5.3	2.3	1.7	1.0	2.6
17	2.1	2.7	3.5	4.3	29	24	23	4.8	2.2	1.8	.97	2.5
18	1.9	2.7	3.2	4.4	27	24	27	4.9	2.2	1.7	.97	2.2
19	1.9	2.5	3.1	4.7	26	22	27	4.7	2.1	1.6	.91	2.2
20	1.9	2.5	3.4	4.9	25	21	21	4.2	2.1	1.5	.97	2.2
21	1.9	2.7	4.8	5.0	29	20	21	3.9	2.2	1.6	.91	2.1
22	2.0	2.6	3.7	5.1	32	19	21	3.6	2.1	1.6	.80	2.0
23	2.1	2.4	3.7	5.3	28	19	16	3.5	2.0	1.5	.80	2.0
24	1.9	2.4	3.5	5.3	21	18	15	3.4	1.9	1.5	.80	1.9
25	3.4	2.5	5.6	5.1	19	17	14	3.2	2.0	1.5	.85	1.9
26	5.5	2.6	9.0	5.0	19	17	14	3.1	2.1	1.6	.91	1.9
27	4.7	2.7	6.7	5.3	19	16	13	3.0	2.0	1.7	.91	1.8
28	3.6	4.8	5.5	5.4	18	17	12	3.0	2.0	1.7	.85	1.8
29	2.2	7.3	5.1	5.4	18	15	11	2.9	1.9	1.6	.91	1.7
30	2.0	9.1	4.6	5.3	---	15	10	2.8	1.9	1.5	.85	1.8
31	2.2	---	3.8	5.5	---	14	---	2.9	---	1.3	.85	---
TOTAL	77.8	88.8	141.4	149.9	1014.5	970	487	178.3	69.4	51.7	31.96	60.18
MEAN	2.51	2.96	4.56	4.84	35.0	31.3	16.2	5.75	2.31	1.67	1.03	2.01
MAX	5.5	9.1	9.0	8.7	123	84	28	10	3.0	2.0	1.3	5.1
MIN	1.9	2.0	2.9	3.8	5.5	14	10	2.8	1.9	1.3	.80	.85
AC-FT	154	176	280	297	2010	1920	966	354	138	103	63	119
CAL YR 1975	TOTAL	4029.30	MEAN	11.0	MAX	132	MIN	1.7	AC-FT	7990		
WTR YR 1976	TOTAL	3320.94	MEAN	9.07	MAX	123	MIN	.80	AC-FT	6590		

11042000 SAN LUIS REY RIVER AT OCEANSIDE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1969 to current year.
 WATER TEMPERATURES: Water year 1971 to current year.
 SEDIMENT RECORDS: Water year 1969 to current year.

PERIOD OF DAILY RECORD:
 WATER TEMPERATURES: October 1970 to current year.
 SEDIMENT RECORDS: October 1969 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
 SEDIMENT CONCENTRATIONS (Water year 1969 to current year): Maximum daily mean, 1,220 mg/l Mar. 2, 1970;
 minimum daily, 2 mg/l on several days in 1972.
 SEDIMENT DISCHARGE (Water year 1969 to current year): Maximum daily, 943 tons (855 tonnes) Mar. 2, 1970;
 minimum daily, 0.01 ton (0.01 tonne) Nov. 4, 1969.

EXTREMES FOR CURRENT YEAR.--
 SEDIMENT CONCENTRATIONS: Maximum daily mean, 72 mg/l March 5; minimum daily, 2 mg/l on several days during
 year.
 SEDIMENT DISCHARGE: Maximum daily, 16 tons (14.5 tonnes) March 5; minimum daily, 0.02 ton (0.03 tonne) on
 several days in October, November and December.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	15.0	---	---	---	---	---	---
2	---	---	9.0	---	---	12.5	---	13.0	---	19.0	22.0	---
3	---	---	---	---	11.0	14.0	---	13.0	---	---	---	19.0
4	---	14.5	---	---	12.0	14.0	14.0	17.0	21.0	---	---	---
5	---	---	---	---	13.0	14.0	13.0	---	---	20.0	---	18.0
6	---	14.5	---	---	12.5	---	---	---	---	---	21.0	19.0
7	---	---	---	---	14.0	---	---	16.0	21.0	23.0	---	---
8	---	---	9.5	7.5	14.0	---	15.0	---	---	---	---	---
9	---	---	---	---	14.0	---	---	---	---	22.0	20.0	22.0
10	15.0	13.5	---	---	14.0	---	---	16.0	16.5	---	---	21.0
11	---	---	---	---	14.0	---	---	17.0	22.0	---	---	22.0
12	---	---	---	8.5	14.0	14.5	14.0	---	---	18.0	19.0	---
13	---	11.5	---	---	---	15.0	13.0	---	---	---	22.0	---
14	---	---	---	---	---	---	---	18.0	22.0	---	---	21.0
15	---	---	---	---	---	---	14.0	---	---	---	---	---
16	---	---	---	11.0	---	---	---	---	---	21.0	24.0	---
17	---	12.5	---	---	14.0	14.0	---	17.0	---	---	---	---
18	---	---	---	---	---	---	14.0	---	23.0	---	---	21.0
19	---	---	---	---	---	---	---	---	---	---	19.0	---
20	---	---	---	13.0	13.5	14.0	---	---	---	21.0	---	---
21	---	8.5	---	---	---	---	---	19.0	22.0	---	---	20.0
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	12.0	---	17.0	18.0	---	---	---	20.0	---
24	---	---	---	---	14.0	---	---	20.0	---	23.0	---	---
25	---	---	---	---	---	---	---	---	21.0	---	---	20.0
26	---	9.5	---	11.0	---	---	---	---	---	20.0	---	---
27	---	---	---	---	---	17.0	---	---	---	---	19.0	---
28	---	10.5	---	---	14.0	---	---	---	---	---	---	21.0
29	---	---	9.5	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	22.0	21.0	18.0	---
31	---	---	---	11.0	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUSPENDED SED. SIEVE DIAM. % FINER THAN .062 MM	SUSPENDED SED. SIEVE DIAM. % FINER THAN .125 MM	SUSPENDED SED. SIEVE DIAM. % FINER THAN .250 MM	SUSPENDED SED. SIEVE DIAM. % FINER THAN .500 MM
FEB									
10...	1300	15.0	146	44	17	56	96	100	--
10...	1545	14.0	154	37	15	67	97	100	--
11...	1035	14.0	124	22	7.4	98	99	100	--
MAR									
01...	1515	15.0	23	33	2.0	99	100	--	--
05...	1300	14.0	84	248	56	24	96	99	100

SAN LUIS REY RIVER BASIN

11042000 SAN LUIS REY RIVER AT OCEANSIDE, CA--Continued

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

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	2.2	9	.05	2.2	4	.02	8.2	10	.22
2	2.2	9	.05	2.0	4	.02	5.5	10	.15
3	2.5	10	.07	2.2	4	.02	3.6	8	.08
4	2.5	10	.07	2.4	4	.03	3.2	6	.05
5	2.5	10	.07	2.6	4	.03	3.0	4	.03
6	2.5	10	.07	2.6	4	.03	2.9	3	.02
7	2.6	11	.08	2.7	4	.03	2.9	3	.02
8	2.5	10	.07	2.7	4	.03	3.0	3	.02
9	2.0	9	.05	2.9	4	.03	3.2	3	.03
10	2.0	9	.05	2.7	3	.02	3.3	4	.04
11	2.6	10	.07	2.7	4	.03	3.3	4	.04
12	2.7	10	.07	2.5	6	.04	3.4	4	.04
13	2.6	10	.07	2.2	7	.04	4.9	7	.09
14	2.6	10	.07	2.2	7	.04	7.6	8	.16
15	2.3	10	.06	2.2	6	.04	8.1	8	.17
16	2.2	10	.06	2.5	6	.04	6.1	7	.12
17	2.1	10	.06	2.7	5	.04	3.5	5	.05
18	1.9	9	.05	2.7	7	.05	3.2	4	.03
19	1.9	9	.05	2.5	6	.04	3.1	4	.03
20	1.9	9	.05	2.5	7	.05	3.4	5	.05
21	1.9	9	.05	2.7	10	.07	4.8	5	.06
22	2.0	9	.05	2.6	8	.06	3.7	4	.04
23	2.1	9	.05	2.4	6	.04	3.7	4	.04
24	1.9	9	.05	2.4	4	.03	3.5	4	.04
25	3.4	12	.11	2.5	3	.02	5.6	6	.09
26	5.5	11	.16	2.6	3	.02	9.0	9	.22
27	4.7	10	.13	2.7	4	.03	6.7	6	.11
28	3.6	7	.07	4.8	8	.10	5.5	5	.07
29	2.2	5	.03	7.3	11	.22	5.1	5	.07
30	2.0	4	.02	9.1	10	.25	4.6	5	.06
31	2.2	4	.02	---	---	---	3.8	5	.05
TOTAL	77.8	---	1.98	88.8	---	1.51	141.4	---	2.29

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	4.9	7	.09	5.6	2	.03	22	14	1.0
2	8.7	9	.21	5.5	2	.03	42	10	1.1
3	5.9	7	.11	5.9	2	.03	65	8	1.4
4	4.0	5	.05	8.5	4	.09	81	9	1.9
5	3.9	4	.04	13	4	.14	84	72	16
6	3.8	4	.04	18	6	.29	66	16	2.9
7	3.9	3	.03	27	5	.36	49	11	1.5
8	4.0	3	.03	44	10	1.4	43	7	.81
9	5.0	3	.04	75	12	2.4	38	5	.51
10	4.2	3	.03	123	25	9.4	35	3	.28
11	4.1	2	.02	120	21	7.0	32	3	.26
12	4.2	2	.02	83	8	1.8	30	2	.16
13	4.3	2	.02	62	7	1.2	28	2	.15
14	4.4	3	.04	45	6	.73	27	2	.15
15	4.4	4	.05	37	5	.50	26	3	.21
16	4.2	4	.05	32	4	.35	24	3	.19
17	4.3	4	.05	29	3	.23	24	4	.26
18	4.4	4	.05	27	3	.22	24	4	.26
19	4.7	5	.06	26	3	.21	22	4	.24
20	4.9	5	.07	25	3	.20	21	4	.23
21	5.0	4	.05	29	5	.39	20	3	.16
22	5.1	3	.04	32	6	.52	19	3	.15
23	5.3	2	.03	28	5	.38	19	3	.15
24	5.3	2	.03	21	4	.23	18	3	.15
25	5.1	3	.04	19	4	.21	17	4	.18
26	5.0	3	.04	19	4	.21	17	4	.18
27	5.3	3	.04	19	3	.15	16	4	.17
28	5.4	3	.04	18	3	.15	17	4	.18
29	5.4	3	.04	18	3	.15	15	4	.16
30	5.3	2	.03	---	---	---	15	4	.16
31	5.5	2	.03	---	---	---	14	4	.15
TOTAL	149.9	---	1.51	1014.5	---	29.00	970	---	31.30

11042000 SAN LUIS REY RIVER AT OCEANSIDE, CA--Continued

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

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	14	4	.15	10	6	.16	3.0	8	.06
2	13	4	.14	9.8	6	.16	3.0	8	.06
3	13	4	.14	9.4	5	.13	2.8	8	.06
4	14	4	.15	9.1	5	.12	2.7	8	.06
5	15	2	.08	8.7	5	.12	2.7	12	.09
6	14	2	.08	8.7	5	.12	2.7	15	.11
7	14	4	.15	8.8	6	.14	2.7	19	.14
8	14	4	.15	7.8	6	.13	2.5	19	.13
9	14	4	.15	7.2	7	.14	2.4	19	.12
10	13	4	.14	7.1	8	.15	2.4	25	.16
11	12	4	.13	6.9	4	.07	2.3	24	.15
12	12	4	.13	6.8	6	.11	2.3	24	.15
13	16	12	.51	6.5	8	.14	2.4	24	.16
14	17	6	.28	6.4	9	.16	2.3	24	.15
15	19	4	.24	5.9	9	.14	2.2	22	.13
16	28	5	.38	5.3	8	.11	2.3	22	.14
17	23	4	.25	4.8	8	.10	2.2	20	.12
18	27	3	.22	4.9	7	.09	2.2	19	.11
19	27	3	.22	4.7	7	.09	2.1	22	.12
20	21	3	.17	4.2	7	.08	2.1	24	.14
21	21	4	.23	3.9	7	.07	2.2	26	.15
22	21	4	.23	3.6	7	.07	2.1	26	.15
23	16	3	.13	3.5	7	.07	2.0	26	.14
24	15	3	.12	3.4	7	.06	1.9	28	.14
25	14	3	.11	3.2	7	.06	2.0	29	.16
26	14	4	.15	3.1	7	.06	2.1	29	.16
27	13	4	.14	3.0	7	.06	2.0	29	.16
28	12	4	.13	3.0	8	.06	2.0	29	.16
29	11	5	.15	2.9	8	.06	1.9	29	.15
30	10	5	.14	2.8	8	.06	1.9	30	.15
31	---	---	---	2.9	8	.06	---	---	---
TOTAL	487	---	5.39	178.3	---	3.15	69.4	---	3.88
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.8	30	.15	1.3	18	.06	.91	17	.04
2	1.7	30	.14	1.2	25	.08	.85	18	.04
3	1.7	30	.14	1.2	19	.06	.85	18	.04
4	1.7	30	.14	1.2	19	.06	.97	16	.04
5	1.9	33	.17	1.2	19	.06	.97	8	.02
6	1.9	33	.17	1.2	25	.08	1.0	15	.04
7	2.0	37	.20	1.2	18	.06	.97	15	.04
8	1.9	33	.17	1.3	17	.06	.91	15	.04
9	1.7	35	.16	1.2	17	.06	.85	18	.04
10	1.7	30	.14	1.2	17	.06	5.1	54	.79
11	1.7	30	.14	1.1	17	.05	4.0	10	.11
12	1.7	30	.14	1.2	20	.06	3.5	8	.08
13	1.7	30	.14	1.1	19	.06	3.1	15	.13
14	1.6	28	.12	1.1	20	.06	2.9	5	.04
15	1.6	28	.12	1.0	20	.05	2.7	7	.05
16	1.7	27	.12	1.0	23	.06	2.6	9	.06
17	1.8	26	.13	.97	23	.06	2.5	9	.06
18	1.7	24	.11	.97	23	.06	2.2	10	.06
19	1.6	23	.10	.91	23	.06	2.2	9	.05
20	1.5	25	.10	.97	20	.05	2.2	9	.05
21	1.6	21	.09	.91	16	.04	2.1	9	.05
22	1.6	20	.09	.80	14	.03	2.0	8	.04
23	1.5	19	.08	.80	12	.03	2.0	7	.04
24	1.5	18	.07	.80	12	.03	1.9	7	.04
25	1.5	18	.07	.85	13	.03	1.9	6	.03
26	1.6	22	.10	.91	14	.03	1.9	6	.03
27	1.7	18	.08	.91	14	.03	1.8	7	.03
28	1.7	18	.08	.85	14	.03	1.8	7	.03
29	1.6	18	.08	.91	15	.04	1.7	7	.03
30	1.5	18	.07	.85	15	.03	1.8	8	.04
31	1.3	18	.06	.85	15	.03	---	---	---
TOTAL	51.7	---	3.67	31.96	---	1.56	60.18	---	2.18
YEAR	3320.94		87.42						

SANTA MARGARITA RIVER BASIN

11042400 TEMECULA CREEK NEAR AGUANGA, CA

LOCATION.--Lat 33°27'33", long 116°55'22", in NE¼SW¼SW¼ sec.19, T.8 S., R.1 E., Riverside County, on right bank 1.6 mi (2.6 km) downstream from Long Canyon, and 3.5 mi (5.6 km) northwest of Aguanga.

DRAINAGE AREA.--131 mi² (339 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 1,590 ft (485 m), from topographic map.

REMARKS.--Records fair. No regulation above station. Pumping for irrigation above station.

AVERAGE DISCHARGE.--19 years, 4.07 ft³/s (0.115 m³/s), 2,950 acre-ft/yr (3.64 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,540 ft³/s (100 m³/s) Apr. 3, 1958, gage height, 6.57 ft (2.003 m), from rating curve extended above 1,200 ft³/s (34 m³/s); no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 50 ft³/s (1.42 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Feb. 9	0315	*177	5.01	2.90	0.884
Mar. 1	2230	67	1.90	2.14	0.652

Minimum daily discharge, no flow Oct. 1-14, June 29 to Sept. 9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.20	.37	.49	.70	8.1	1.3	1.2	.41			0
2	0	.18	.37	.43	.78	22	1.3	1.1	.38			0
3	0	.16	.40	.43	.82	17	1.2	1.2	.39			0
4	0	.15	.43	.43	.93	9.8	1.4	1.2	.37			0
5	0	.14	.43	.43	2.7	9.5	2.0	1.4	.30			0
6	0	.16	.43	.43	8.7	7.9	1.8	1.5	.28			0
7	0	.18	.43	.43	9.2	6.7	1.5	2.1	.29			0
8	0	.18	.43	.43	11	6.0	1.4	2.1	.26			0
9	0	.19	.43	.43	97	5.5	1.4	1.7	.24			0
10	0	.20	.43	.43	35	5.1	1.4	1.3	.24			.23
11	0	.20	.43	.43	15	4.8	1.3	1.1	.25			1.3
12	0	.20	.49	.43	9.1	4.4	1.4	.92	.25			.56
13	0	.20	.57	.43	6.2	3.9	2.5	.76	.23			.43
14	0	.20	.54	.54	4.8	3.7	2.8	.62	.21			.37
15	.07	.20	.47	.57	4.0	3.5	2.4	.52	.18			.38
16	.12	.20	.43	.61	3.5	3.1	4.8	.47	.17			.43
17	.09	.23	.43	.64	3.1	2.9	3.6	.50	.16			.37
18	.08	.32	.43	.64	2.8	2.8	3.2	.49	.16			.37
19	.09	.31	.43	.64	2.6	2.6	2.6	.49	.04			.37
20	.12	.31	.53	.64	2.4	2.5	1.9	.49	.02			.37
21	.16	.31	.50	.64	2.1	2.1	1.8	.50	.01			.37
22	.17	.31	.50	.64	2.0	2.0	1.8	.48	.13			.37
23	.18	.31	.47	.64	1.8	1.9	1.8	.44	.10			.37
24	.16	.31	.43	.64	1.8	1.9	1.7	.43	.11			.42
25	.13	.31	.43	.64	1.8	1.8	1.5	.42	.09			.48
26	.13	.31	.43	.64	1.7	1.8	1.5	.40	.08			.50
27	.16	.37	.43	.64	1.6	1.7	1.4	.41	.07			.49
28	.18	.73	.43	.64	1.5	1.7	1.4	.39	.01			.43
29	.16	.82	.43	.64	1.4	1.7	1.5	.47	0			.43
30	.14	.43	.43	.69	---	1.5	1.4	.53	0			.43
31	.19	---	.50	.73	---	1.3	---	.50	---			---
TOTAL	2.33	8.32	13.88	17.11	236.03	151.2	57.0	26.13	5.43	0	0	9.47
MEAN	.075	.28	.45	.55	8.14	4.88	1.90	.84	.18	0	0	.32
MAX	.19	.82	.57	.73	.97	22	4.8	2.1	.41	0	0	1.3
MIN	0	.14	.37	.43	.70	1.3	1.2	.39	0	0	0	0
AC-FT	4.6	17	28	34	468	300	113	52	11	0	0	19
CAL YR 1975	TOTAL	496.70	MEAN	1.36	MAX	23	MIN	0	AC-FT	985		
WTR YR 1976	TOTAL	526.90	MEAN	1.44	MAX	97	MIN	0	AC-FT	1050		

SANTA MARGARITA RIVER BASIN

307

11042500 TEMECULA CREEK AT VAIL DAM, CA

LOCATION.--Lat 33°29'44", long 116°58'33", in Pauba Grant, Riverside County, at Vail Dam 0.2 mi (0.3 km) downstream from Arroyo Seco, and 10 mi (16 km) east of Temecula.

DRAINAGE AREA.--320 mi² (829 km²).

PERIOD OF RECORD.--October 1948 to current year. January 1923 to October 1930 at site 200 ft (61 m) downstream and October 1930 to September 1948 at site 500 ft (152 m) downstream published as "at Nigger Canyon, near Temecula"; records not equivalent owing to change in natural water loss resulting from creation of Vail Lake. October 1948 to September 1951 published as "at Nigger Canyon, near Temecula"; records are for draft and spill only from Vail Lake. October 1951 to September 1955, published as "at Vail Dam, near Temecula."

GAGE.--Two water-stage recorders. Main gage on lake. National Weather Service type nonrecording rain gage 0.2 mi (0.3 km) upstream. Supplemental gage at site 500 ft (152 m) downstream measures release and spill at different datum. Datum of main gage is 1,350.0 ft (411.48 m) above mean sea level (levels by Bureau of Reclamation); gage readings have been reduced to elevations above mean sea level.

REMARKS.--Records poor. Discharges represent all water reaching Vail Lake, including precipitation on lake surface. Discharge computed on basis of records of storage, release (draft), spill, and evaporation. Monthly evaporation from lake surface computed on basis of evaporation from a class A evaporation pan using coefficient of 0.77, excepting the period June 1964 to September 1965, when a 24-inch (0.61-m) diameter sunken screen pan with a coefficient of 0.98 was used. Area-capacity tables for lake are based on a survey made in 1947. Vail Dam completed in June 1949. Capacity of lake at spillway level, 49,370 acre-ft (60.9 hm³), elevation, 1,470.00 ft (448.056 m). Dead storage, 2.4 acre-ft (2,960 m³) below lowest outlet at elevation 1,352.5 ft (412.24 m) included in these records. There has been no spill since Nov. 13, 1948, date of closure. Water is released as required down Temecula Creek for diversion about 1 mi (1.6 km) below dam. Monthly precipitation, in inches, from National Weather Service type nonrecording rain gage is as follows: October, 0.04 (0.10 cm); November, 1.42 (3.61 cm); December, 0.24 (0.61 cm); February, 4.26 (10.82 cm); March, 1.80 (4.57 cm); April 1.01 (2.57 cm); May 0.48 (1.22 cm); September 2.41 (6.12 cm); the current year, 11.66 (29.62 cm).

AVERAGE DISCHARGE.--25 years (water years 1924-48), 14.5 ft³/s (0.411 m³/s), 10,500 acre-ft/yr (12.9 hm³/yr), see PERIOD OF RECORD; 28 years (water years 1949-76), 5.27 ft³/s (0.149 m³/s), 3,820 acre-ft/yr (4.71 hm³/yr).

MONTHLY DISCHARGE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation at 2400 (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Draft (acre-feet) ^b	Evaporation (acre-feet)	Discharge (acre-feet)
Vail Lake						
Sept. 30.....	1,434.04	18,820	--	--	--	--
Oct. 31.....	1,433.58	18,530	-290	50	266	26
Nov. 30.....	1,433.42	18,430	-100	0	202	102
Dec. 31.....	1,433.34	18,380	-50	0	128	78
CAL YR 1975.....	--	--	-1,960	379	3,195	1,614
Jan. 31.....	1,433.26	18,330	-50	0	202	152
Feb. 29.....	1,434.05	18,820	+490	0	138	628
Mar. 31.....	1,434.34	19,000	+180	0	206	386
Apr. 30.....	1,434.25	18,950	-50	0	244	194
May 31.....	1,433.91	18,730	-220	0	323	103
June 30.....	1,433.39	18,410	-320	0	438	118
July 31.....	1,432.85	18,080	-330	0	386	56
Aug. 31.....	1,432.27	17,720	-360	0	416	56
Sept. 30.....	1,432.27	17,720	0	0	195	195
WTR YR 1976.....	--	--	-1,100	50	3,144	2,094

^a Estimated.

^b Draft, in acre-feet, was all direct pumping from lake. Records of pumping furnished by Rancho California.

NOTE.--For months when inflow to the lake was small and other quantities were large, discordant figures of discharge may appear. This arises primarily from the difficulty of computing discharge as a residual of several larger quantities, which are not susceptible to measurement with a precision necessary to produce a final answer within desirable limits of accuracy.

SANTA MARGARITA RIVER BASIN

11043000 MURRIETA CREEK AT TEMECULA, CA

LOCATION.--Lat 33°28'47", long 117°08'35", in Temecula Grant, Riverside County, on right bank 0.4 mi (0.6 km) upstream from mouth, and 1.0 mi (1.6 km) south of Temecula.

DRAINAGE AREA.--222 mi² (575 km²)

PERIOD OF RECORD.--October 1924 to current year. Monthly discharge only October 1924 to September 1930, published in WSP 1315-B.

GAGE.--Water-stage recorder. Altitude of gage is 970 ft (296 m), from topographic map. See WSP 1735 for history of changes prior to Dec. 16, 1938.

REMARKS.--Records poor. No regulation above station. Pumping above station for irrigation of about 2,500 acres (10.1 km²).

AVERAGE DISCHARGE.--52 years, 8.43 ft³/s (0.239 m³/s), 6,110 acre-ft/yr (7.53 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,500 ft³/s (496 m³/s) Jan. 23, 1943, gage height, 13.82 ft (4.212 m); minimum daily, 0.02 ft³/s (0.001 m³/s) at times in 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 55 ft³/s (1.56 m³/s) and maximum (*), based on slope-area measurement of maximum 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)	
Feb. 9	0030	128	3.62	2.50	0.762	Sept. 11	0230	*1520	43.0	6.81	2.076
Mar. 3	0800	106	3.00	2.36	0.719						

Minimum daily discharge, 0.28 ft³/s (0.008 m³/s) Dec. 15.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	.40	.72	.39	.39	14	.52	.54	.45	.54	.34	.45
2	.40	.40	.63	.34	.39	6.1	.52	.54	.45	.54	.39	.45
3	.40	.40	.63	.39	.39	44	.52	.54	.39	.45	.39	.54
4	.40	.40	.63	.39	2.1	2.5	.60	.54	.54	.45	.45	.45
5	.40	.40	.54	.39	2.4	1.6	1.1	.54	.54	.63	.45	.45
6	.40	.39	.45	.39	7.1	1.0	1.1	.54	.54	.63	.45	.39
7	.40	.39	.39	.39	4.3	.82	.98	1.2	.45	.72	.54	.39
8	.40	.39	.45	.39	23	.72	.87	.60	.54	.45	.63	.45
9	.40	.39	.39	.39	94	.63	.87	.60	.63	.54	.54	.45
10	.40	.39	.39	.45	18	.60	.87	.60	.63	.54	.54	9.5
11	.40	.33	.39	.45	2.5	.60	.87	.60	.63	.63	.63	274
12	.40	.33	.54	.45	1.4	.60	.87	.52	.54	.63	.63	20
13	.40	.33	.63	.45	1.0	.60	1.7	.45	.45	.72	.63	2.0
14	.40	.33	.34	.39	.77	.60	.98	.52	.54	.63	.72	1.0
15	.40	.39	.28	.39	.70	.60	1.6	.52	.54	.63	.63	.80
16	.40	.39	.34	.39	.68	.55	1.6	.45	.54	.72	.63	.70
17	.40	.39	.34	.39	.66	.55	.91	.45	.45	.72	.63	.65
18	.40	.39	.34	.39	.64	.55	.72	.52	.45	.63	.54	.60
19	.40	.39	.34	.34	.62	.55	.72	.52	.63	.54	.54	.55
20	.40	.45	.45	.39	.60	.55	.82	.39	.72	.54	.45	.50
21	.40	.45	.45	.39	.56	.50	.72	.39	.72	.45	.45	.50
22	.40	.39	.39	.39	.52	.50	.72	.45	.72	.45	.45	.45
23	.40	.39	.34	.45	.52	.50	.72	.39	.63	.45	.39	.45
24	.40	.39	.39	.45	.52	.50	.82	.34	.72	.39	.45	.45
25	.40	.45	.34	.39	.52	.50	.82	.39	.63	.39	.45	.40
26	.40	.45	.34	.39	.52	.50	.63	.39	.54	.45	.39	.40
27	.40	.72	.34	.39	.50	.50	.54	.39	.54	.39	.45	.40
28	.40	1.9	.34	.34	.50	.50	.54	.45	.45	.39	.45	.40
29	.40	1.2	.34	.34	.50	.50	.54	.39	.54	.39	.39	.40
30	.40	.68	.34	.39	---	.50	.54	.39	.54	.39	.39	.40
31	.40	---	.39	.39	---	.50	---	.39	---	.39	.45	---
TOTAL	12.40	14.69	13.21	12.25	166.30	83.22	25.33	15.54	16.68	16.50	15.46	318.57
MEAN	.40	.49	.43	.40	5.73	2.68	.84	.50	.56	.53	.50	10.6
MAX	.40	1.9	.72	.45	94	44	1.7	1.2	.72	.72	.72	274
MIN	.40	.33	.28	.34	.39	.50	.52	.34	.39	.39	.34	.39
AC-FT	25	29	26	24	330	165	50	31	33	33	31	632
CAL YR 1975	TOTAL	361.10	MEAN	.99	MAX	45	MIN	.24	AC-FT	716		
WTR YR 1976	TOTAL	710.15	MEAN	1.94	MAX	274	MIN	.28	AC-FT	1410		

11044000 SANTA MARGARITA RIVER NEAR TEMECULA, CA

LOCATION.--Lat 33°28'26", long 117°08'29", in Temecula Grant, Riverside County, on left bank at upper end of Temecula Canyon, 0.1 mi (0.2 km) downstream from Murrieta Creek, 1.4 mi (2.3 km) south of Temecula, and 10 mi (16 km) downstream from Vail Lake.

DRAINAGE AREA.--588 mi² (1,520 km²).

PERIOD OF RECORD.--January 1923 to current year. Prior to October 1952, published as Temecula Creek at Railroad Canyon, near Temecula.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 950 ft (290 m), from topographic map. Prior to Nov. 3, 1966, at site 100 ft (30.5 m) downstream at same datum.

REMARKS.--Records good below 60 ft³/s (1.70 m³/s) and fair above. Flow partly regulated since November 1948 by Vail Lake (station 11042500). Pumping above station for irrigation.

AVERAGE DISCHARGE.--25 years (water years 1924-48), unregulated, 28.2 ft³/s (0.799 m³/s), 20,420 acre-ft/yr (25.2 hm³/yr); 28 years (water years 1949-76), 9.58 ft³/s (0.271 m³/s), 6,940 acre-ft/yr (8.56 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft³/s (708 m³/s) Feb. 16, 1927, gage height, 14.6 ft (4.45 m), at site 100 ft (30.5 m) downstream, from rating curve extended above 10,000 ft³/s (283 m³/s); minimum daily, 0.30 ft³/s (0.009 m³/s) Aug. 18-22, 1965, regulation by construction work above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,560 ft³/s (44.2 m³/s) Sept. 11, gage height, 7.97 ft (2.429 m), from rating curve extended above 60 ft³/s (1.70 m³/s) on basis of estimate of maximum flow; minimum daily, 1.3 ft³/s (0.037 m³/s) July 6 and 9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	2.0	2.4	2.3	3.6	24	2.9	2.7	2.0	1.6	1.6	1.5
2	1.8	2.0	2.4	2.1	3.4	12	3.0	2.5	2.0	1.7	1.6	1.4
3	2.0	2.0	2.4	2.1	3.9	51	3.2	2.5	2.0	1.4	1.5	1.7
4	2.0	2.0	2.4	2.1	5.9	7.3	3.8	2.4	2.0	1.5	1.6	1.9
5	2.1	2.1	2.4	2.1	7.0	5.1	3.7	2.2	2.0	1.6	1.6	1.7
6	2.0	2.0	2.4	2.1	15	4.2	3.4	2.3	2.1	1.3	1.6	1.8
7	2.0	2.0	2.4	2.1	11	3.8	3.0	3.0	1.9	1.6	1.6	1.5
8	2.0	2.1	2.4	2.1	37	3.8	3.0	2.7	2.0	1.4	1.4	1.5
9	2.0	2.0	2.4	2.0	105	3.8	3.0	2.3	2.0	1.3	1.6	1.5
10	2.1	2.0	2.4	2.1	27	3.6	3.0	2.1	2.1	1.5	1.5	17
11	2.1	2.0	2.4	2.1	8.7	3.6	2.8	2.2	2.5	1.4	1.6	317
12	2.1	1.9	2.5	2.1	6.7	3.4	2.9	2.2	1.9	1.5	1.6	22
13	2.1	1.9	2.8	2.1	4.9	3.0	6.0	2.2	2.0	1.4	1.6	5.6
14	2.1	1.9	2.5	2.1	4.0	3.2	3.9	2.3	1.9	1.6	1.6	2.9
15	2.1	1.9	2.2	2.0	4.9	3.2	4.9	2.3	2.0	1.5	1.6	2.6
16	2.0	1.9	2.2	2.4	5.1	3.2	4.3	2.3	1.9	1.5	1.5	2.2
17	2.0	2.0	2.2	4.2	5.6	3.0	3.6	2.3	2.0	1.7	1.6	2.2
18	2.0	2.0	2.2	2.7	4.2	2.7	3.2	2.5	2.0	1.6	1.6	2.2
19	2.0	2.0	2.2	2.1	3.8	2.9	2.6	2.6	2.0	1.4	1.5	2.2
20	2.0	2.0	2.5	2.1	3.6	2.7	2.8	2.3	1.9	1.4	1.6	2.2
21	2.1	2.0	2.9	2.1	3.4	2.7	2.9	2.3	1.9	1.5	1.6	2.2
22	2.1	2.1	2.7	2.5	3.0	2.7	2.9	2.2	1.9	1.5	1.6	2.1
23	2.1	2.1	2.5	2.4	3.0	2.7	2.8	2.4	1.9	1.6	1.4	2.3
24	2.1	2.1	2.2	2.1	2.7	2.7	3.1	2.3	1.7	1.5	1.6	2.4
25	2.0	2.1	2.2	2.1	2.9	2.7	3.2	2.5	1.7	1.5	1.5	2.7
26	2.0	2.1	2.2	2.2	2.9	2.7	3.2	2.3	2.0	1.4	1.4	2.9
27	2.1	2.6	2.2	2.7	2.9	2.7	3.0	2.2	1.6	1.8	1.4	2.4
28	2.1	4.5	2.1	2.9	2.9	2.7	2.7	2.4	1.5	1.6	1.5	2.4
29	2.0	3.6	2.1	2.7	2.9	2.7	2.9	2.5	1.6	1.8	1.5	2.2
30	2.0	2.7	2.2	2.9	---	2.9	3.0	2.5	1.6	1.7	1.4	2.2
31	2.0	---	2.4	3.2	---	2.9	---	2.1	---	1.8	1.5	---
TOTAL	62.9	65.6	73.4	72.8	296.9	179.6	98.7	73.6	57.6	47.6	47.8	416.4
MEAN	2.03	2.19	2.37	2.35	10.2	5.79	3.29	2.37	1.92	1.54	1.54	13.9
MAX	2.1	4.5	2.9	4.2	105	51	6.0	3.0	2.5	1.8	1.6	317
MIN	1.8	1.9	2.1	2.0	2.7	2.7	2.6	2.1	1.5	1.3	1.4	1.4
AC-FT	125	130	146	144	589	356	196	146	114	94	95	826

CAL YR 1975 TOTAL 1108.9 MEAN 3.04 MAX 52 MIN 1.4 AC-FT 2200
WTR YR 1976 TOTAL 1492.9 MEAN 4.08 MAX 317 MIN 1.3 AC-FT 2960

SANTA MARGARITA RIVER BASIN

11044500 SANTA MARGARITA RIVER NEAR FALLBROOK, CA

LOCATION.--Lat 33°23'54", long 117°15'44", in NE¼SE¼NE¼ sec.14, T.9 S., R.4 W., San Diego County, on right bank 180 ft (55 m) upstream from De Luz Road, 1.3 mi (2.1 km) northwest of Fallbrook, and 1.9 mi (3.1 km) downstream from Sandia Canyon.

DRAINAGE AREA.--644 mi² (1,668 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1924 to current year. Monthly discharge only for October and November 1924, published in WSP 1315-B.

REVISED RECORDS.--WDR CA-72-1: 1971.

GAGE.--Water-stage recorder. Concrete-road control since October 1955. Datum of gage is 267.96 ft (81.674 m) above mean sea level (levels by Bureau of Reclamation). Prior to Oct. 1, 1955, at site 1.7 mi (2.7 km) upstream at different datum. Records equivalent except for extreme low flows.

REMARKS.--Records good. Flow partly regulated since November 1948 by Vail Lake (station 11042500). Several small diversions above station for irrigation. The Fallbrook Public Utility District reports no water pumped during the current year from a well in the streambed 2.1 mi (3.4 km) upstream from the station.

AVERAGE DISCHARGE.--24 years (water years 1925-48), unregulated, 35.4 ft³/s (1.003 m³/s), 25,630 acre-ft/yr (31.6 hm³/yr); 28 years (water years 1949-76), 11.8 ft³/s (0.334 m³/s), 8,550 acre-ft/yr (10.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,100 ft³/s (937 m³/s) Feb. 16, 1927, gage height, 15.6 ft (4.75 m), site and datum then in use, from rating curve extended above 8,800 ft³/s (249 m³/s) on basis of slope-area measurement of maximum flow; no flow at times in recent years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 213 ft³/s (6.03 m³/s) Feb. 9, gage height, 6.03 ft (1.838 m); no flow Oct. 1-8, June 27 to July 15, Aug. 5 to Sept. 7.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	1.2	3.0	2.9	3.6	25	4.3	3.0	2.0	0	.16	0
2	0	1.2	2.5	2.8	3.9	55	4.4	3.1	1.8	0	.14	0
3	0	1.3	2.4	2.8	4.1	107	4.4	3.5	1.8	0	.09	0
4	0	1.3	2.5	2.9	6.4	31	5.1	3.3	1.7	0	.08	0
5	0	1.3	2.5	3.0	9.5	15	6.0	3.1	1.5	0	0	0
6	0	1.3	2.5	3.1	18	11	5.8	3.2	1.4	0	0	0
7	0	1.3	2.5	3.0	19	9.4	5.5	3.7	1.4	0	0	0
8	0	1.5	2.3	3.0	21	8.5	4.9	3.7	1.3	0	0	.06
9	.01	1.5	2.3	3.0	185	8.0	4.9	3.3	1.3	0	0	.10
10	.21	1.5	2.4	3.0	101	8.2	4.6	2.9	2.0	0	0	1.8
11	.34	1.5	2.5	3.0	26	7.6	4.4	2.6	2.0	0	0	321
12	.53	1.2	2.8	2.9	15	7.2	4.4	2.5	1.6	0	0	69
13	.57	1.0	3.3	2.9	12	6.7	8.4	2.3	1.6	0	0	9.4
14	.49	1.0	3.1	2.9	9.4	6.5	8.1	2.2	1.1	0	0	7.9
15	.40	1.1	2.8	2.8	8.5	6.4	6.6	2.2	1.0	0	0	6.4
16	.38	1.4	2.7	2.8	8.6	6.2	8.4	2.2	.83	.04	0	5.1
17	.40	1.5	2.5	3.0	10	6.0	6.3	2.1	.71	.23	0	4.0
18	.57	1.7	2.7	4.5	8.9	6.0	5.3	2.0	.57	.33	0	3.4
19	.84	1.7	2.7	3.8	7.4	5.8	4.7	2.0	.51	.31	0	3.2
20	.92	1.7	3.0	2.9	6.7	5.7	4.5	2.2	.41	.24	0	3.2
21	.92	1.8	3.5	2.4	6.0	5.4	4.1	2.1	.41	.16	0	3.1
22	1.0	1.8	3.3	2.5	5.7	5.2	4.0	1.9	.38	.13	0	2.8
23	1.0	1.7	3.1	2.9	5.4	5.0	4.2	1.9	.30	.18	0	2.7
24	1.0	1.5	3.1	3.0	5.4	5.1	4.1	1.8	.22	.13	0	2.8
25	1.0	1.5	3.1	2.9	5.1	5.1	4.2	1.7	.11	.11	0	3.1
26	1.0	1.6	3.0	2.8	5.1	4.9	3.8	1.6	.04	.12	0	3.2
27	1.1	1.9	3.0	2.8	5.1	4.8	3.7	1.8	0	.41	0	2.8
28	1.1	3.2	2.9	3.0	5.1	5.1	3.5	2.2	0	.26	0	2.4
29	1.1	4.9	2.8	3.2	5.0	4.9	3.4	2.5	0	.16	0	2.1
30	1.2	4.0	2.8	3.2	---	4.5	3.1	2.6	0	.22	0	2.0
31	1.2	---	2.9	3.1	---	4.3	---	2.2	---	.25	0	---
TOTAL	17.28	51.1	86.5	92.8	531.9	396.5	149.1	77.4	27.99	3.28	.47	461.56
MEAN	.56	1.70	2.79	2.99	18.3	12.8	4.97	2.50	.93	.11	.015	15.4
MAX	1.2	4.9	3.5	4.5	185	107	8.4	3.7	2.0	.41	.16	321
MIN	0	1.0	2.3	2.4	3.6	4.3	3.1	1.6	0	0	0	0
AC-FT	34	101	172	184	1060	786	296	154	56	6.5	.9	916
CAL YR 1975	TOTAL	1366.49	MEAN	3.74	MAX	93	MIN	0	AC-FT	2710		
WTR YR 1976	TOTAL	1895.88	MEAN	5.18	MAX	321	MIN	0	AC-FT	3760		

11044500 SANTA MARGARITA RIVER NEAR FALLBROOK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: Water years 1967 to current year.

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA, MG)	NON-CARBONATE HARDNESS (MG/L)
DEC 17...	1430	11	1250	8.0	6.5	3	11.2	468	170
MAR 24...	1130	5.3	1300	8.1	15.0	3	10.4	484	210
JUN 23...	0800	.40	1580	7.8	19.0	8	6.2	520	200

DATE	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)
DEC 17...	119	41	133	38	2.7	3.9	366	0	300
MAR 24...	121	44	131	37	2.6	3.5	329	0	270
JUN 23...	123	52	154	39	2.9	3.9	394	0	323

DATE	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)
DEC 17...	5.9	193	186	.6	909	1.24	27.0	.22	140
MAR 24...	4.2	226	189	.7	918	1.25	13.1	.09	190
JUN 23...	10	204	222	.7	1014	1.38	1.10	.00	210

SANTA MARGARITA RIVER BASIN

11046000 SANTA MARGARITA RIVER AT YSIDORA, CA

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

DRAINAGE AREA.--740 mi² (1,917 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1923 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5.00 ft (1.524 m) below mean sea level (U.S. Navy reference mark). See WSP 1735 for history of changes prior to Nov. 27, 1935. Nov. 27, 1935, to Feb. 25, 1970, at site 0.8 mi (1.3 km) upstream at different datum.

REMARKS.--No flow since Apr. 15, 1974. Flow partly regulated by Vail Lake since November 1948 (station 11042500). Diversions for irrigation on Rancho California (formerly Santa Margarita Ranch and Pauba Ranch). Large conservation pools, starting 0.5 mi (0.8 km) upstream can detain flow. AVERAGE DISCHARGE represents flow to ocean during period of record, regardless of upstream development.

AVERAGE DISCHARGE.--53 years, 26.0 ft³/s (0.736 m³/s), 18,840 acre-ft/yr (23.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,600 ft³/s (952 m³/s) Feb. 16, 1927, gage height, 18.00 ft (5.486 m), site and datum then in use, on basis of slope-area measurement of maximum flow; no flow for all or part of most years.

EXTREMES FOR CURRENT YEAR.--No flow since April 15, 1974.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969 to current year.

WATER TEMPERATURES: Water years 1969 to current year.
SEDIMENT RECORDS: Water years 1969 to current year.

PERIOD OF DAILY RECORD.--

SEDIMENT RECORDS: October 1968 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 13,000 mg/l Feb. 24, 1969; minimum daily mean, no flow for many days each year.

SEDIMENT DISCHARGE: Maximum daily, 534,000 tons (484,000 tonnes) Feb. 24, 1969; minimum daily, 0 tons on many days each year.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT DISCHARGE: No flow since Apr. 15, 1974.

LAS FLORES CREEK BASIN

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11046100 LAS FLORES CREEK NEAR OCEANSIDE, CA

LOCATION.--Lat 33°17'32", long 117°27'21", in NW¼SE¼ sec.24, T.10 S., R.6 W., San Diego County, Camp Joseph H. Pendleton Naval Reservation, on upstream side and at center of bridge on Atchison, Topeka, and Santa Fe Railway, 0.5 mi (0.8 km) upstream from mouth, and 8.5 mi (13.7 km) northwest of Oceanside.

DRAINAGE AREA.--26.6 mi² (68.9 km²).

PERIOD OF RECORD.--May 1951 to September 1967, October 1969 to current year.

REVISED RECORDS.--WDR CA-72: 1971.

GAGE.--Water-stage recorder and multiple concrete culvert control. Altitude of gage is 35 ft (11 m), from topographic map.

REMARKS.--Records good to 0.1 ft³/s (0.003 m³/s) and fair above. No regulation above station. Some pumping above station for irrigation.

AVERAGE DISCHARGE.--23 years, 0.53 ft³/s (0.015 m³/s), 384 acre-ft/yr (473,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 960 ft³/s (27.2 m³/s) Jan. 16, 1952, gage height, 4.75 ft (1.448 m) based on critical-depth determination of maximum flow; no flow for long periods in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 25, 1969, reached a stage of 7.25 ft (2.210 m), from floodmarks, discharge, 4,200 ft³/s (119 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.65 ft³/s (0.018 m³/s) Feb. 6, 10; gage height, 0.27 ft (0.082 m), no peak above base of 100 ft³/s (2.83 m³/s); no flow many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	0	.01	.02	.01	.12	.01	.01	.01	0		0
2	.01	0	.01	.02	.01	.05	.01	.01	.01	0		0
3	.01	0	.01	.02	.02	.08	.01	.01	.01	0		0
4	.01	0	.01	.02	.04	.03	.03	.01	.01	0		0
5	.01	0	.01	.02	.05	.03	.02	.01	.01	0		0
6	.01	0	.01	.02	.12	.03	.02	.01	.01	.01		0
7	.01	.01	.01	.02	.08	.03	.01	.01	.01	.01		0
8	.01	.01	.01	.01	.12	.03	.01	.01	.01	.01		0
9	.01	.01	.01	.01	.16	.03	.01	.01	.01	0		0
10	0	.01	.01	.01	.17	.02	.01	.01	0	0		.01
11	0	.01	.01	.01	.05	.02	.01	.01	0	0		0
12	0	0	.01	.01	.04	.02	.01	.01	0	0		0
13	0	0	.01	.01	.04	.02	.03	.01	0	0		0
14	0	0	.01	.01	.04	.02	.01	.01	0	0		0
15	0	.01	.01	.01	.04	.02	.02	.01	0	0		0
16	0	.01	.01	.01	.04	.02	.02	.01	.01	0		0
17	0	.01	.01	.01	.03	.02	.01	.01	0	0		0
18	0	.01	.01	.01	.03	.01	.01	.01	0	0		0
19	0	.01	.01	.01	.03	.01	.01	.01	0	0		0
20	0	.01	.02	.01	.03	.01	.01	.01	0	0		0
21	0	.01	.02	.01	.03	.01	.01	.01	0	0		0
22	.01	.01	.02	.01	.03	.01	.02	.01	0	0		0
23	0	.01	.02	.01	.03	.01	.01	.01	0	0		0
24	0	.01	.02	.01	.03	.02	.01	.01	0	0		0
25	0	.01	.02	.01	.03	.02	.01	.01	0	0		0
26	0	.01	.02	.01	.03	.02	.01	.01	0	0		0
27	0	.01	.02	.01	.03	.02	.01	.01	0	.01		0
28	0	.02	.02	.01	.03	.02	.01	.01	0	.01		0
29	0	.01	.02	.01	.03	.02	.01	.01	0	0		0
30	0	.01	.02	.01	---	.02	.01	.01	0	0		0
31	0	---	.02	.01	---	.02	---	.01	---	0		---
TOTAL	.10	.22	.43	.38	1.42	.81	.39	.31	.10	.05	0	.01
MEAN	.003	.007	.014	.012	.049	.026	.013	.010	.003	.002	0	.0003
MAX	.01	.02	.02	.02	.17	.12	.03	.01	.01	.01	0	.01
MIN	0	0	.01	.01	.01	.01	.01	.01	0	0	0	0
AC-FT	.2	.4	.9	.8	2.8	1.6	.8	.6	.2	.10	0	.02
CAL YR 1975	TOTAL	7.27	MEAN	.020	MAX	.90	MIN	0	AC-FT	14		
WTR YR 1976	TOTAL	4.22	MEAN	.012	MAX	.17	MIN	0	AC-FT	8.4		

SAN JUAN CREEK BASIN

11046550 SAN JUAN CREEK AT SAN JUAN CAPISTRANO, CA

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

DRAINAGE AREA.--117 mi² (303 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 67 ft (20 m).

REMARKS.--Records poor. No regulation above station. Capistrano Water Co. diverted 3.0 mi (4.8 km) upstream. Various amounts of diverted water reach station as irrigation return flow and rising ground water. Data for San Juan Creek near San Juan Capistrano (11046500) previously collected at site 2.8 mi (4.5 km) upstream was published as creek only and combined.

COOPERATION.--Six discharge measurements were furnished by Orange County Flood Control District.

AVERAGE DISCHARGE.--7 years, 3.54 ft³/s (0.100 m³/s), 2,560 acre-ft/yr (3.16 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 445 ft³/s (12.6 m³/s) Feb. 11, 1973, gage height, 4.35 ft (1.326 m); no flow at times in some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 25, 1969, 22,400 ft³/s (634 m³/s), at site 2.8 mi (4.5 km) upstream, as station 11046500.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27 ft³/s (0.76 m³/s) Feb. 9, gage height, 1.70 ft (0.518 m), no peak above base of 200 ft³/s (5.66 m³/s); minimum daily, 0.30 ft³/s (0.008 m³/s) for several days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.64	1.0	.48	.48	.75	13	1.7	.75	.75	.55	.55	.86
2	.55	.64	.48	.75	.75	12	1.7	.64	.75	.41	.50	.75
3	.48	.41	.48	.64	.75	15	2.1	.75	.75	.86	.50	1.2
4	.55	.35	.48	.64	1.9	7.7	4.3	.56	.75	.64	.50	.86
5	.41	.55	.41	.55	2.5	6.1	2.9	.64	.75	.55	.50	.55
6	.41	.75	.48	.48	5.1	5.1	2.3	.64	.75	.55	.48	.48
7	.35	.86	.48	.48	2.7	5.1	2.1	.75	.75	.48	.48	.41
8	.30	.86	.56	.48	5.2	4.8	2.3	.87	.48	.75	.48	.35
9	.30	.41	.56	.48	17	4.4	2.0	1.0	.48	1.3	.41	.30
10	.30	.41	.48	.48	12	4.1	1.7	.86	1.2	1.3	.41	8.9
11	.35	.41	.75	.55	6.4	4.1	1.3	1.2	.55	.64	.41	3.3
12	.30	.48	.86	.55	3.3	4.0	2.1	.75	.55	.48	.35	.75
13	.35	.55	1.0	.64	3.3	4.0	6.0	1.2	.48	.55	.35	1.2
14	.41	.64	.48	.86	2.9	3.9	2.7	1.3	.48	.86	.30	1.3
15	.64	.64	.35	1.2	2.9	3.8	3.8	.87	.48	.75	.30	1.3
16	.55	.55	.41	1.3	2.7	3.8	5.1	.75	.48	.64	.30	1.4
17	.64	.55	.48	1.0	2.7	3.7	3.6	.75	.41	.64	.30	1.4
18	1.0	.55	.55	.64	2.5	3.6	3.0	.87	.41	.55	.30	1.2
19	1.2	.64	.55	.75	2.3	3.6	2.5	1.2	.48	.64	.35	1.0
20	1.3	.64	.86	.86	2.1	3.5	2.0	.90	.41	.64	.35	1.2
21	1.3	.86	.75	.86	2.1	3.4	1.5	.80	.35	.75	.30	1.4
22	1.2	1.0	.75	.86	2.1	3.3	1.2	.75	.41	.86	.35	1.6
23	.75	.86	.75	.86	2.1	3.1	1.0	.75	.35	1.0	.35	1.7
24	.64	1.0	.75	.86	2.1	2.9	.87	.75	.35	.75	.35	1.7
25	.55	.86	.64	.75	2.1	2.7	.75	.75	.41	.86	.41	1.4
26	.55	.55	.64	.64	2.1	2.5	1.0	.75	.48	.75	.48	1.7
27	.64	.48	.55	.75	2.3	2.3	1.0	.75	.41	.64	.55	1.3
28	.55	.55	.55	.75	2.3	2.1	.87	.75	.35	.64	.55	1.3
29	.55	.48	.55	1.0	2.3	2.8	.75	.75	.64	.41	.41	1.3
30	.64	.48	.55	1.3	---	1.9	.75	.75	.86	.41	.48	1.2
31	1.2	---	.48	.95	---	1.8	---	.75	---	.35	.64	---
TOTAL	19.60	19.01	18.14	23.39	99.25	143.3	64.89	25.55	16.75	21.20	12.99	43.31
MEAN	.63	.63	.59	.75	3.42	4.62	2.16	.82	.56	.68	.42	1.44
MAX	1.3	1.0	1.0	1.3	17	15	6.0	1.3	1.2	1.3	.64	8.9
MIN	.30	.35	.35	.48	.75	1.8	.75	.56	.35	.35	.30	.30
AC-FT	39	38	36	46	197	284	129	51	33	42	26	86
CAL YR 1975 TOTAL	1561.13			4.28	64	MIN	.24	AC-FT	3100			
WTR YR 1976 TOTAL	507.38			1.39	17	MIN	.30	AC-FT	1010			

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

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	.64	34	.06	1.0	19	.05	.48	73	.09
2	.55	40	.06	.64	16	.03	.48	76	.10
3	.48	45	.06	.41	13	.01	.48	80	.10
4	.55	50	.07	.35	11	.01	.48	60	.08
5	.41	55	.06	.55	11	.02	.41	41	.05
6	.41	60	.07	.75	10	.02	.48	37	.05
7	.35	65	.06	.86	10	.02	.48	32	.04
8	.30	70	.06	.86	17	.04	.56	28	.04
9	.30	75	.06	.41	24	.03	.56	24	.04
10	.30	75	.06	.41	31	.03	.48	19	.02
11	.35	70	.07	.41	38	.04	.75	15	.03
12	.30	70	.06	.48	45	.06	.86	31	.07
13	.35	65	.06	.55	52	.08	1.0	36	.10
14	.41	65	.07	.64	56	.10	.48	41	.05
15	.64	60	.10	.64	57	.10	.35	46	.04
16	.55	60	.09	.55	58	.09	.41	50	.06
17	.64	55	.10	.55	59	.09	.48	55	.07
18	1.0	50	.14	.55	60	.09	.55	60	.09
19	1.2	40	.13	.64	61	.11	.55	64	.10
20	1.3	24	.08	.64	62	.11	.86	68	.16
21	1.3	26	.09	.86	63	.15	.75	61	.12
22	1.2	28	.09	1.0	60	.16	.75	55	.11
23	.75	30	.06	.86	60	.14	.75	48	.10
24	.64	32	.06	1.0	60	.16	.75	42	.09
25	.55	32	.05	.86	60	.14	.64	35	.06
26	.55	33	.05	.55	60	.09	.64	29	.05
27	.64	34	.06	.48	60	.08	.55	22	.03
28	.55	35	.05	.55	62	.09	.55	20	.03
29	.55	36	.05	.48	66	.09	.55	18	.03
30	.64	37	.06	.48	69	.09	.55	16	.02
31	1.2	21	.07	---	---	---	.48	14	.02
TOTAL	19.60	---	2.21	19.01	---	2.32	18.14	---	2.04
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	.48	12	.02	.75	129	.26	13	478	30
2	.75	11	.02	.75	97	.20	12	194	11
3	.64	21	.04	.75	65	.13	15	351	16
4	.64	21	.04	1.9	36	.22	7.7	160	3.3
5	.55	22	.03	2.5	42	.38	6.1	140	2.3
6	.48	22	.03	5.1	117	4.0	5.1	120	1.7
7	.48	23	.03	2.7	45	.44	5.1	100	1.4
8	.48	23	.03	5.2	54	.99	4.8	90	1.2
9	.48	25	.03	17	313	18	4.4	75	.89
10	.48	28	.04	12	80	2.6	4.1	60	.66
11	.55	27	.04	6.4	44	.76	4.1	49	.54
12	.55	26	.04	3.3	22	.20	4.0	48	.52
13	.64	25	.04	3.3	19	.17	4.0	48	.52
14	.86	24	.06	2.9	15	.12	3.9	47	.49
15	1.2	22	.07	2.9	23	.18	3.8	46	.47
16	1.3	18	.06	2.7	31	.23	3.8	45	.46
17	1.0	14	.04	2.7	39	.28	3.7	44	.44
18	.64	16	.03	2.5	47	.32	3.6	43	.42
19	.75	18	.04	2.3	44	.27	3.6	42	.41
20	.86	20	.05	2.1	42	.24	3.5	63	.60
21	.86	22	.05	2.1	39	.22	3.4	57	.52
22	.86	25	.06	2.1	45	.26	3.3	51	.45
23	.86	29	.07	2.1	51	.29	3.1	44	.37
24	.86	164	.38	2.1	56	.32	2.9	38	.30
25	.75	152	.31	2.1	62	.35	2.7	32	.23
26	.64	141	.24	2.1	68	.39	2.5	26	.18
27	.75	129	.26	2.3	72	.45	2.3	31	.19
28	.75	117	.24	2.3	56	.35	2.1	36	.20
29	1.0	106	.29	2.3	55	.34	2.0	42	.23
30	1.3	94	.33	---	---	---	1.9	48	.25
31	.95	161	.41	---	---	---	1.8	53	.26
TOTAL	23.39	---	3.42	99.25	---	32.96	143.3	---	76.50

11046550 SAN JUAN CREEK AT SAN JUAN CAPISTRANO, CA--Continued

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

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.7	58	.27	.75	88	.18	.75	112	.23
2	1.7	64	.29	.64	72	.12	.75	130	.26
3	2.1	28	.16	.75	57	.12	.75	110	.22
4	4.3	56	.65	.56	57	.97	.75	89	.18
5	2.9	33	.26	.64	57	.10	.75	69	.14
6	2.3	13	.08	.64	56	.10	.75	71	.14
7	2.1	20	.11	.75	56	.11	.75	73	.15
8	2.3	27	.17	.87	56	.13	.48	66	.09
9	2.0	36	.19	1.0	69	.19	.48	58	.08
10	1.7	24	.11	.86	82	.19	1.2	68	.28
11	1.3	20	.07	1.2	96	.31	.55	50	.07
12	2.1	16	.09	.75	109	.22	.55	40	.22
13	6.0	11	.18	1.2	90	.29	.48	30	1.2
14	2.7	31	.23	1.3	72	.25	.48	45	.06
15	3.8	41	.42	.87	53	.12	.48	49	.51
16	5.1	25	.34	.75	50	.10	.48	54	.07
17	3.6	9	.09	.75	47	.10	.41	49	.05
18	3.0	9	.07	.87	44	.10	.41	43	.05
19	2.5	10	.07	1.2	41	.13	.48	37	.05
20	2.0	11	.06	.90	38	.09	.41	37	.04
21	1.5	12	.05	.80	35	.08	.35	38	.04
22	1.2	12	.04	.75	32	.06	.41	39	.04
23	1.0	27	.07	.75	75	.15	.35	40	.04
24	.87	52	.12	.75	107	.22	.35	41	.04
25	.75	57	.12	.75	97	.20	.41	42	.05
26	1.0	62	.17	.75	87	.18	.48	39	.05
27	1.0	67	.18	.75	76	.15	.41	36	.04
28	.87	72	.17	.75	66	.13	.35	32	.03
29	.75	78	.16	.75	56	.11	.64	28	.05
30	.75	83	.17	.75	74	.15	.86	24	.06
31	---	---	---	.75	93	.19	---	---	---
TOTAL	64.89	---	5.16	25.55	---	5.54	16.75	---	4.53
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	.55	20	.03	.55	48	.07	.86	50	.12
2	.41	15	.02	.50	51	.07	.75	45	.09
3	.86	13	.03	.50	55	.07	1.2	100	.32
4	.64	20	.03	.50	58	.08	.86	54	.13
5	.55	35	.05	.50	61	.08	.55	50	.07
6	.55	50	.07	.48	64	.08	.48	50	.06
7	.48	63	.08	.48	68	.09	.41	50	.06
8	.75	55	.11	.48	61	.08	.35	50	.05
9	1.3	40	.14	.41	54	.06	.30	50	.04
10	1.3	25	.09	.41	47	.05	8.9	397	.28
11	.64	50	.09	.41	40	.04	3.3	70	1.5
12	.48	70	.09	.35	32	.03	.75	76	.15
13	.55	66	.10	.35	36	.03	1.2	70	.23
14	.86	62	.14	.30	40	.03	1.3	60	.21
15	.75	58	.12	.30	45	.04	1.3	50	.18
16	.64	54	.09	.30	50	.04	1.4	40	.15
17	.64	50	.09	.30	60	.05	1.4	30	.11
18	.55	40	.06	.30	70	.06	1.2	20	.06
19	.64	30	.05	.35	80	.08	1.0	18	.05
20	.64	20	.03	.35	90	.09	1.2	16	.05
21	.75	15	.03	.30	96	.08	1.4	14	.05
22	.86	10	.02	.35	90	.09	1.6	10	.04
23	1.0	100	.27	.35	80	.08	1.7	8	.04
24	.75	71	.14	.35	70	.07	1.7	6	.03
25	.86	67	.16	.41	60	.07	1.4	4	.02
26	.75	63	.13	.48	60	.08	1.7	4	.02
27	.64	59	.10	.55	58	.09	1.3	4	.01
28	.64	55	.10	.55	64	.10	1.3	4	.01
29	.41	51	.06	.41	60	.07	1.3	4	.01
30	.41	48	.05	.48	60	.08	1.2	4	.01
31	.35	45	.04	.64	55	.10	---	---	---
TOTAL	21.20	---	2.61	12.99	---	2.13	43.31	---	31.87
YEAR	507.38		171.29						

SAN JUAN CREEK BASIN

11046550 SAN JUAN CREEK AT SAN JUAN CAPISTRANO, CA--Continued

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

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1975	19.60	2.21	0	2
NOVEMBER ...	19.01	2.32	0	2
DECEMBER ...	18.14	2.04	0	2
JANUARY 1976	23.39	3.42	0	3
FEBRUARY ...	99.25	32.96	9	42
MARCH	143.30	76.50	15	91
APRIL	64.89	5.16	4	9
MAY	25.55	5.54	0	6
JUNE	16.75	4.53	0	5
JULY	21.20	2.61	0	3
AUGUST	12.99	2.13	0	2
SEPTEMBER ..	43.31	31.87	2	34
TOTAL	507.38	171.29	30	201

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

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDI-MENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
JAN 24...	0845	12.0	.86	164	.38	--	--	--
FEB 09...	0815	12.0	20	272	15	--	--	--
MAR 01...	1145	14.0	12	327	11	--	--	--
01...	1430	14.0	35	1670	158	46	56	67
03...	1115	12.0	15	359	15	84	92	96
SEP 10...	0845	22.0	4.0	134	1.4	--	--	--
10...	0900	20.0	3.3	124	1.1	--	--	--
10...	1615	22.0	13	676	24	64	80	91
11...	0800	20.0	1.7	49	.22	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
JAN 24...	--	--	--	99	--	100	--
FEB 09...	--	--	--	100	--	--	--
MAR 01...	--	--	--	100	--	--	--
01...	80	89	97	--	100	--	--
03...	98	99	100	--	--	--	--
SEP 10...	--	--	--	100	--	--	--
10...	--	--	--	100	--	--	--
10...	99	100	--	--	--	--	--
11...	--	--	--	96	--	98	100

11046550 SAN JUAN CREEK AT SAN JUAN CAPISTRANO, CA--Continued

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

DATE	TIME	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	BED	BED	BED	BED
				MAT. SIEVE DIAM. % FINER THAN .062 MM	MAT. SIEVE DIAM. % FINER THAN .125 MM	MAT. SIEVE DIAM. % FINER THAN .250 MM	MAT. SIEVE DIAM. % FINER THAN .500 MM
SEP 29...	1400	3	.70	2	4	9	26

DATE	BED	BED	BED	BED	BED	BED
	MAT. SIEVE DIAM. % FINER THAN 1.00 MM	MAT. SIEVE DIAM. % FINER THAN 2.00 MM	MAT. SIEVE DIAM. % FINER THAN 4.00 MM	MAT. SIEVE DIAM. % FINER THAN 8.00 MM	MAT. SIEVE DIAM. % FINER THAN 16.0 MM	MAT. SIEVE DIAM. % FINER THAN 32.0 MM
SEP 29...	52	69	79	89	99	100

SAN JUAN CREEK BASIN

11047200 OSO CREEK AT CROWN VALLEY PARKWAY, NEAR MISSION VIEJO, CA

LOCATION.--Lat 33°33'29", long 117°40'33", in SE¼ sec.14, T.7 S., R.8 W., Orange County, on right upstream side of Crown Valley Parkway bridge, 2.7 mi (4.3 km) south of Mission Viejo, and 4.0 mi (6.4 km) north of San Juan Capistrano.

DRAINAGE AREA.--14.0 mi² (36.3 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 250 ft (76 m), from topographic map.

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

COOPERATION.--Records were furnished by Orange County Flood Control District.

AVERAGE DISCHARGE.--6 years (water years 1971-76), 2.30 ft³/s (0.065 m³/s), 1,670 acre-ft/yr (2.06 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,630 ft³/s (46.2 m³/s) Feb. 11, 1973, gage height, 7.67 ft (2.338 m); no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 440 ft³/s (12.5 m³/s) Sept. 10, gage height, 9.90 ft (3.018 m); minimum daily, 0.70 ft³/s (0.020 m³/s) Oct. 1, Apr. 18-19.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.70	1.2	2.0	2.4	2.6	50	.90	.80	1.7	1.1	.90	.90
2	.80	1.2	1.7	2.2	2.8	21	.90	.90	1.7	.90	.90	.90
3	.80	1.4	1.7	2.2	2.8	39	1.2	.90	1.6	1.1	.90	1.0
4	.80	1.4	2.0	2.1	11	1.4	13	.80	1.6	1.2	.90	1.0
5	.80	1.5	2.2	2.1	16	.90	3.3	.80	1.5	.80	.90	1.0
6	.80	1.5	2.2	2.1	53	.90	1.1	.90	1.5	1.0	.90	1.0
7	.90	1.5	2.1	2.1	18	.90	1.0	.90	1.4	.90	.90	1.0
8	1.2	1.6	2.1	2.1	40	.90	2.0	.90	1.2	1.0	.90	1.0
9	1.4	1.6	2.1	2.1	86	.90	1.5	1.1	1.3	1.2	.90	1.0
10	1.2	1.6	2.1	2.1	17	.90	1.1	1.1	28	1.1	.90	48
11	1.1	1.6	2.1	2.1	4.5	.90	1.2	1.2	2.6	1.0	.90	4.8
12	1.1	1.6	3.7	2.1	4.2	.90	2.2	1.4	1.1	.90	.90	1.1
13	1.1	1.6	9.0	2.1	4.0	.90	24	1.2	1.2	1.0	.90	1.1
14	1.1	1.6	3.8	2.1	3.8	.90	1.0	1.2	1.1	1.0	.90	1.1
15	1.1	1.6	2.8	2.1	3.6	.90	3.2	1.1	1.1	1.0	.90	1.1
16	1.1	1.6	2.2	2.1	3.4	.90	2.4	1.0	1.4	1.0	.90	1.2
17	1.0	1.6	2.2	2.1	3.2	1.1	.80	1.2	1.0	1.0	.90	1.2
18	1.0	1.7	2.1	2.2	3.0	1.1	.70	1.4	1.0	1.4	.90	1.2
19	1.0	1.7	2.1	2.4	2.8	.90	.70	1.4	1.1	1.1	.90	1.2
20	1.0	1.7	3.8	2.6	2.4	.90	.80	1.2	1.2	1.0	.90	1.3
21	1.0	1.7	8.9	2.6	2.1	.90	.90	1.2	1.2	1.0	.90	1.3
22	1.0	1.7	4.8	2.4	2.0	.90	1.0	1.2	1.1	.90	.90	1.4
23	1.0	1.7	3.4	2.6	1.7	.90	1.1	1.2	1.2	.90	.90	1.4
24	1.0	1.7	3.0	2.6	1.6	.90	1.0	1.2	1.1	1.0	.90	1.4
25	1.0	2.0	3.0	2.6	1.4	.90	2.1	1.2	1.1	1.2	.90	1.3
26	1.0	2.0	2.8	2.6	1.2	.90	1.6	1.2	1.4	1.6	.90	1.3
27	1.0	2.0	2.8	2.4	1.0	.90	.80	1.6	1.6	1.4	.90	1.3
28	1.0	35	2.6	2.4	.90	.80	.80	1.6	3.4	.90	.90	1.3
29	1.0	20	2.4	2.6	.90	.90	.80	1.6	1.1	.90	.90	1.3
30	1.1	3.2	2.4	2.6	---	.90	.80	1.6	1.2	.90	.90	1.3
31	1.1	---	2.4	2.6	---	.90	---	1.5	---	.90	.90	---
TOTAL	31.20	101.8	92.5	71.4	296.90	136.00	73.90	36.50	68.7	32.30	27.90	85.40
MEAN	1.01	3.39	2.98	2.30	10.2	4.39	2.46	1.18	2.29	1.04	.90	2.85
MAX	1.4	35	9.0	2.6	86	50	24	1.6	28	1.6	.90	48
MIN	.70	1.2	1.7	2.1	.90	.80	.70	.80	1.0	.80	.90	.90
AC-FT	62	202	183	142	589	270	147	72	136	64	55	169
CAL YR 1975 TOTAL	675.00		MEAN 1.85	MAX 35	MIN .40	AC-FT 1340						
WTR YR 1976 TOTAL	1054.50		MEAN 2.88	MAX 86	MIN .70	AC-FT 2090						

11047300 ARROYO TRABUCO AT SAN JUAN CAPISTRANO, CA

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

DRAINAGE AREA.--54.1 mi² (140 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 80 ft (24.4 m), from topographic map.

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

COOPERATION.--Records were furnished by Orange County Flood Control District and reviewed by the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,380 ft³/s (39.1 m³/s) Feb. 11, 1973, gage height, 2.50 ft (0.762 m); no flow many days during most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 236 ft³/s (6.68 m³/s) Dec. 4, gage height, 2.49 ft (0.759 m); minimum daily, 0.05 ft³/s (0.001 m³/s) Dec. 2, 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	2.0	1.5	1.7	3.3	18	2.0	1.2	.60	.30	0	0
2	.50	2.0	1.4	1.2	2.7	6.0	1.0	1.2	.60	.10	0	0
3	.50	2.0	1.4	1.2	4.0	20	1.0	1.2	.80	0	0	.60
4	.50	2.0	1.4	1.4	18	10	9.0	1.4	.30	.10	0	0
5	.50	2.0	1.4	1.0	27	5.0	6.0	1.4	.50	.50	0	.10
6	.50	2.0	1.2	.80	96	5.0	3.0	1.9	.60	.80	0	.10
7	.50	2.0	1.5	.50	54	5.0	2.0	1.9	.30	.10	0	.10
8	.50	2.0	1.9	.80	81	5.0	2.0	3.1	.60	0	0	0
9	.50	2.0	1.5	1.0	101	5.0	2.3	4.2	.50	0	0	0
10	.50	2.0	1.5	1.2	40	4.0	1.2	3.8	6.1	0	0	48
11	.50	2.0	1.2	.80	15	4.0	1.4	3.1	6.5	0	0	40
12	.50	2.0	2.0	.50	8.0	4.0	2.0	3.4	1.9	0	0	4.6
13	1.0	2.0	4.7	.10	4.0	4.0	36	2.3	1.4	0	0	1.5
14	1.0	2.0	2.3	.10	4.0	4.0	5.9	2.3	1.2	0	0	0
15	1.0	2.0	1.9	0	4.0	4.0	7.3	1.9	.80	0	0	.30
16	1.0	2.0	1.5	0	4.0	4.0	12	1.5	.50	0	.10	1.0
17	1.0	2.0	1.4	0	4.0	3.0	3.1	2.3	.60	0	0	.80
18	1.0	2.0	1.5	0	4.0	3.0	2.3	1.9	.30	0	0	1.4
19	1.0	2.0	1.9	0	4.0	3.0	1.9	1.4	0	0	.70	1.0
20	1.0	2.0	2.0	0	4.0	3.0	1.9	.80	.10	0	1.9	.30
21	1.0	2.0	5.5	.50	3.0	3.0	1.9	.80	.30	0	1.0	1.2
22	1.0	2.0	2.7	0	3.0	3.0	2.1	.80	.30	0	1.0	1.0
23	1.0	1.0	2.7	0	3.0	3.0	2.0	1.0	.10	0	1.0	1.2
24	1.0	1.0	2.3	0	3.0	2.0	1.9	1.0	1.0	0	.50	1.0
25	1.0	1.0	2.3	1.0	3.0	2.0	2.3	.80	.80	0	.10	2.0
26	1.0	1.0	2.3	1.5	3.0	2.0	2.7	.60	.50	.80	.10	1.4
27	1.0	1.5	2.3	1.5	3.0	2.0	1.4	.60	.30	.30	0	1.0
28	1.0	1.4	2.3	1.4	3.0	2.0	1.2	.10	1.5	0	0	.80
29	1.0	9.1	1.9	2.3	3.0	2.0	1.2	.30	.10	.30	0	1.0
30	1.0	1.5	1.7	2.7	---	2.0	1.2	.10	0	.50	.20	.80
31	1.0	---	1.7	3.1	---	2.0	---	.50	---	.10	0	---
TOTAL	25.00	74.1	62.8	26.30	509.0	144.0	121.2	48.80	29.10	3.90	6.60	111.20
MEAN	.81	2.47	2.03	.85	17.6	4.65	4.04	1.57	.97	.13	.21	3.71
MAX	1.0	14	5.5	3.1	101	20	36	4.2	6.5	.80	1.9	48
MIN	.50	1.0	1.2	0	2.7	2.0	1.0	.10	0	0	0	0
AC-FT	50	147	125	52	1010	286	240	97	58	7.7	13	221
CAL YR 1975	TOTAL	1286.20	MEAN	3.52	MAX	134	MIN	.20	AC-FT	2550		
WTR YR 1976	TOTAL	1162.00	MEAN	3.17	MAX	101	MIN	0	AC-FT	2300		

11047300 ARROYO TRABUCO AT SAN JUAN CAPISTRANO, CA--Continued

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

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	.50	10	.01	2.0	5	.03	1.5	2	.01
2	.50	12	.02	2.0	5	.03	1.4	2	.01
3	.50	14	.02	2.0	4	.02	1.4	2	.01
4	.50	15	.02	2.0	4	.02	1.4	4	.02
5	.50	17	.02	2.0	3	.02	1.4	6	.02
6	.50	19	.03	2.0	3	.02	1.2	6	.02
7	.50	21	.03	2.0	3	.02	1.5	7	.03
8	.50	22	.03	2.0	3	.02	1.9	7	.04
9	.50	23	.03	2.0	3	.02	1.5	7	.03
10	.50	24	.03	2.0	4	.02	1.5	8	.03
11	.50	23	.03	2.0	4	.02	1.2	8	.03
12	.50	21	.03	2.0	4	.02	2.0	30	.13
13	1.0	19	.05	2.0	5	.03	4.7	29	.38
14	1.0	17	.05	2.0	5	.03	2.3	30	.19
15	1.0	15	.04	2.0	5	.03	1.9	30	.15
16	1.0	13	.04	2.0	5	.03	1.5	30	.12
17	1.0	11	.03	2.0	5	.03	1.4	30	.11
18	1.0	11	.03	2.0	6	.03	1.5	25	.10
19	1.0	11	.03	2.0	6	.03	1.9	25	.13
20	1.0	11	.03	2.0	6	.03	2.0	27	.16
21	1.0	11	.03	2.0	6	.03	5.5	24	.39
22	1.0	11	.03	2.0	6	.03	2.7	9	.07
23	1.0	10	.03	1.0	7	.02	2.7	9	.07
24	1.0	9	.02	1.0	7	.02	2.3	9	.06
25	1.0	8	.02	1.0	8	.02	2.3	9	.06
26	1.0	7	.02	1.0	9	.02	2.3	9	.06
27	1.0	6	.02	1.5	21	.13	2.3	9	.06
28	1.0	5	.01	14	193	13	2.3	17	.11
29	1.0	4	.01	9.1	128	3.9	1.9	26	.13
30	1.0	3	.01	1.5	6	.02	1.7	23	.11
31	1.0	5	.01	---	---	---	1.7	21	.10
TOTAL	25.00	---	.81	74.1	---	17.69	62.8	---	2.94

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.7	19	.09	3.3	16	.14	18	2230	155
2	1.2	17	.06	2.7	16	.12	6.0	700	11
3	1.2	8	.03	4.0	9	.13	20	1400	76
4	1.4	11	.04	18	58	3.4	10	180	4.9
5	1.0	14	.04	27	77	5.9	5.0	100	1.4
6	.80	17	.04	96	1630	587	5.0	43	.58
7	.50	21	.03	54	407	53	5.0	39	.53
8	.80	25	.05	81	434	142	5.0	32	.43
9	1.0	17	.05	101	2990	848	5.0	25	.34
10	1.2	9	.03	40	700	76	4.0	16	.17
11	.80	7	.02	15	100	4.1	4.0	9	.10
12	.50	6	.01	8.0	48	1.0	4.0	2	.02
13	.10	5	0	4.0	39	.42	4.0	58	.63
14	.10	4	0	4.0	31	.33	4.0	56	.60
15	0	0	0	4.0	25	.27	4.0	52	.56
16	0	0	0	4.0	19	.21	4.0	48	.52
17	0	0	0	4.0	13	.14	3.0	44	.36
18	0	0	0	4.0	7	.08	3.0	40	.32
19	0	0	0	4.0	32	.35	3.0	36	.29
20	0	0	0	4.0	57	.62	3.0	53	.43
21	.50	4	.01	3.0	81	.66	3.0	47	.38
22	0	0	0	3.0	69	.56	3.0	41	.33
23	0	0	0	3.0	58	.47	3.0	34	.28
24	0	0	0	3.0	47	.38	2.0	27	.15
25	1.0	11	.03	3.0	36	.29	2.0	20	.11
26	1.5	15	.06	3.0	25	.20	2.0	13	.07
27	1.5	19	.08	3.0	48	.39	2.0	6	.03
28	1.4	23	.09	3.0	72	.58	2.0	11	.06
29	2.3	27	.17	3.0	72	.58	2.0	16	.09
30	2.7	30	.22	---	---	---	2.0	21	.11
31	3.1	16	.13	---	---	---	2.0	26	.14
TOTAL	26.30	---	1.28	509.0	---	1727.32	144.0	---	255.93

SAN JUAN CREEK BASIN

11047300 ARROYO TRABUCO AT SAN JUAN CAPISTRANO, CA--Continued

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

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	2.0	31	.17	1.2	24	.08	.60	26	.04
2	1.0	34	.09	1.2	26	.08	.60	28	.05
3	1.0	13	.04	1.2	29	.09	.80	29	.06
4	9.0	250	6.1	1.4	35	.13	.30	30	.02
5	6.0	176	2.9	1.4	41	.15	.50	32	.04
6	3.0	3	.02	1.9	47	.24	.60	32	.05
7	2.0	8	.04	1.9	53	.27	.30	32	.03
8	2.0	13	.07	3.1	60	.50	.60	32	.05
9	2.3	17	.11	4.2	67	.76	.50	32	.04
10	1.2	8	.03	3.8	74	.76	6.1	219	10
11	1.4	8	.03	3.1	81	.68	6.5	210	3.7
12	2.0	12	.10	3.4	88	.81	1.9	35	.18
13	36	394	58	2.3	65	.40	1.4	25	.09
14	5.9	12	.19	2.3	41	.25	1.2	20	.07
15	7.3	18	.79	1.9	17	.09	.80	15	.03
16	12	24	1.1	1.5	19	.08	.50	8	.01
17	3.1	1	.01	2.3	21	.13	.60	11	.02
18	2.3	3	.02	1.9	23	.12	.30	14	.01
19	1.9	5	.03	1.4	25	.09	0	0	0
20	1.9	7	.04	.80	27	.06	.10	15	0
21	1.9	10	.05	.80	29	.06	.30	13	.01
22	2.1	13	.07	.80	30	.06	.30	11	.01
23	2.0	19	.10	1.0	29	.08	.10	9	0
24	1.9	26	.13	1.0	28	.08	1.0	7	.02
25	2.3	26	.16	.80	25	.05	.80	5	.01
26	2.7	26	.19	.60	23	.04	.50	5	.01
27	1.4	25	.09	.60	21	.03	.30	5	0
28	1.2	25	.08	.10	19	.01	1.5	9	.04
29	1.2	25	.08	.30	17	.01	.10	5	0
30	1.2	24	.08	.10	20	.01	0	0	0
31	---	---	---	.50	23	.03	---	---	---
TOTAL	121.2	---	70.91	48.80	---	6.23	29.10	---	14.59
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	.30	15	.01	0	0	0	0	0	0
2	.10	17	0	0	0	0	0	0	0
3	0	0	0	0	0	0	.60	17	.03
4	.10	24	.01	0	0	0	0	0	0
5	.50	28	.04	0	0	0	.10	17	0
6	.80	33	.07	0	0	0	.10	16	0
7	.10	38	.01	0	0	0	.10	14	0
8	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	48	1590	367
11	0	0	0	0	0	0	40	1750	372
12	0	0	0	0	0	0	4.6	80	.99
13	0	0	0	0	0	0	1.5	32	.13
14	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	.30	29	.02
16	0	0	0	.10	9	0	1.0	26	.07
17	0	0	0	0	0	0	.80	23	.05
18	0	0	0	0	0	0	1.4	20	.08
19	0	0	0	.70	6	.01	1.0	23	.06
20	0	0	0	1.9	5	.03	.30	25	.02
21	0	0	0	1.0	4	.01	1.2	27	.09
22	0	0	0	1.0	9	.02	1.0	29	.08
23	0	0	0	1.0	14	.04	1.2	31	.10
24	0	0	0	.50	19	.03	1.0	33	.09
25	0	0	0	.10	24	.01	2.0	36	.19
26	.80	6	.01	.10	21	.01	1.4	34	.13
27	.30	5	0	0	0	0	1.0	32	.09
28	0	0	0	0	0	0	.80	30	.06
29	.30	3	0	0	0	0	1.0	28	.08
30	.50	2	0	.20	28	.02	.80	26	.06
31	.10	1	0	0	0	0	---	---	---
TOTAL	3.90	---	.15	6.60	---	.18	111.20	---	741.42
YEAR	1162.00	---	2839.45						

11047300 ARROYO TRABUCO AT SAN JUAN CAPISTRANO, CA--Continued

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

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1975	25.00	0.81	3	4
NOVEMBER ...	74.10	17.69	45	63
DECEMBER ...	62.80	2.94	17	20
JANUARY 1976	26.30	1.28	5	6
FEBRUARY ...	509.00	1727.32	3260	4980
MARCH	144.00	255.93	143	399
APRIL	121.20	70.91	207	278
MAY	48.80	6.23	12	18
JUNE	29.10	14.59	12	27
JULY	3.90	0.15	0	0
AUGUST	6.60	0.18	1	1
SEPTEMBER ..	111.20	741.42	458	1200
TOTAL	1162.00	2839.45	4163	6996

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

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
FEB									
05...	0745	12.0	--	27	97	7.1	--	--	--
06...	0745	11.0	--	213	3120	1790	61	64	69
06...	0845	10.5	--	163	2990	1320	53	59	67
06...	1130	13.0	--	77	2220	462	59	67	74
MAR									
01...	1700	14.0	18	--	5190	252	52	57	66
03...	1100	11.0	--	86	2840	659	51	56	60
SEP									
10...	1600	21.0	--	59	1210	193	75	79	89
11...	0745	19.5	--	40	1530	165	68	81	89
11...	0925	21.5	--	28	2240	169	69	84	93

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
FEB								
05...	--	--	99	--	100	--	--	--
06...	81	91	95	--	97	100	--	--
06...	74	82	86	--	87	92	99	100
06...	80	87	88	--	89	93	100	--
MAR								
01...	75	85	92	--	96	97	99	100
03...	69	77	85	--	92	96	100	--
SEP								
10...	94	100	--	--	--	--	--	--
11...	93	97	98	--	99	99	99	100
11...	98	99	--	100	--	--	--	--

SAN JUAN CREEK BASIN

11047300 ARROYO TRABUCO AT SAN JUAN CAPISTRANO, CA--Continued

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

DATE	TIME	NUMBER OF SAM- PLING POINTS	BED	BED	BED	BED	BED	BED	BED	BED
			MAT. SIEVE DIAM. % FINER THAN .250 MM	MAT. SIEVE DIAM. % FINER THAN .500 MM	MAT. SIEVE DIAM. % FINER THAN 1.00 MM	MAT. SIEVE DIAM. % FINER THAN 2.00 MM	MAT. SIEVE DIAM. % FINER THAN 4.00 MM	MAT. SIEVE DIAM. % FINER THAN 8.00 MM	MAT. SIEVE DIAM. % FINER THAN 16.0 MM	MAT. SIEVE DIAM. % FINER THAN 32.0 MM
SEP 29...	1415	3	1	6	17	27	39	54	75	100

11047500 ALISO CREEK AT EL TORO, CA

LOCATION.--Lat 33°37'33", long 117°41'08", in Canada de los Alisos Grant, Orange County, on right bank 500 ft (150 m) downstream from Second Street Bridge at El Toro. Prior to Nov. 18, 1975 at site 500 ft (150 m) upstream.

DRAINAGE AREA.--7.91 mi² (20.5 km²).

PERIOD OF RECORD.--October 1930 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 425 ft (130 m), from topographic map. Prior to July 1962, at different datum. July 1962 to Nov. 18, 1975, water-stage recorder at site 500 ft (150 m) upstream at different datum.

REMARKS.--Records poor. No regulation or diversion above station; some pumping from wells along stream. At times since 1964, Metropolitan Water District has wasted water to creek.

COOPERATION.--Records were furnished by Orange County Flood Control District.

AVERAGE DISCHARGE.--46 years, 0.71 ft³/s (0.020 m³/s), 514 acre-ft/yr (634,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,500 ft³/s (70.8 m³/s) Feb. 24, 1969, gage height, 11.00 ft (3.353 m) from floodmark, from rating curve extended above 220 ft³/s (6.23 m³/s) on basis of slope-area measurement of maximum flow; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 12 ft³/s (0.34 m³/s) Sept. 10; no flow many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0		0	3.2	0	0	0	.10	0	.20
2		0	0		0	.40	0	0	0	.30	0	.30
3		0	0		0	.30	.70	0	0	.10	0	1.8
4		0	0		.30	.10	.40	0	0	.10	.10	.60
5		0	0		1.3	.10	0	0	0	.10	.10	.40
6		0	0		5.0	0	0	.10	0	0	.10	.80
7		0	0		1.4	0	0	0	0	0	.10	.90
8		0	0		1.9	0	0	0	0	.10	.10	.90
9		0	0		1.9	0	0	0	0	.10	0	.60
10		0	0		.80	0	0	0	2.0	.10	0	12
11		0	0		.30	.10	0	0	0	.10	0	.30
12		0	.10		.20	0	.80	0	0	0	.10	0
13		0	0		0	0	1.2	0	0	0	.10	0
14		0	0		0	0	0	0	0	0	.10	0
15		0	0		0	0	.70	.10	0	0	.10	0
16		0	0		0	0	0	0	0	0	.10	0
17		0	0		0	0	0	0	0	0	.10	0
18		0	0		0	0	0	0	0	0	.10	0
19		0	0		0	0	0	0	0	0	0	0
20		0	.30		0	0	0	.10	0	0	0	0
21		0	0		0	0	0	.10	0	0	0	0
22		0	0		0	0	0	0	.10	0	0	0
23		0	0		0	.10	0	0	0	0	0	0
24		0	0		0	0	0	0	0	.10	.10	0
25		0	.10		0	0	0	0	.10	0	.10	0
26		0	0		0	0	0	0	0	0	.30	0
27		.10	0		0	0	.20	0	0	0	.30	0
28		.80	0		0	0	0	0	.10	0	.20	0
29		0	0		0	0	0	0	0	0	.10	0
30		0	0		---	0	0	0	.10	0	.20	0
31		---	0		---	0	---	0	---	0	.30	---
TOTAL	0	.90	.50	0	13.10	4.30	4.00	.40	2.40	1.10	2.80	18.80
MEAN	0	.030	.016	0	.45	.14	.13	.013	.080	.036	.090	.63
MAX	0	.80	.30	0	5.0	3.2	1.2	.10	2.0	.30	.30	12
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	1.8	1.0	0	26	8.5	7.9	.8	4.8	2.2	5.6	37
CAL YR 1975	TOTAL	121.90	MEAN .33	MAX 30	MIN 0	AC-FT 242						
WTR YR 1976	TOTAL	48.30	MEAN .13	MAX 12	MIN 0	AC-FT 96						

SAN DIEGO CREEK BASIN

11048500 SAN DIEGO CREEK NEAR IRVINE, CA

LOCATION.--Lat 33°40'20", long 117°47'10", in San Joaquin Grant, Orange County, on left bank 200 ft (61 m) downstream from Jeffrey Road Bridge, and 1.5 mi (2.4 km) west of Irvine.

DRAINAGE AREA.--40.3 mi² (104.4 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 102.86 ft (31.352 m) above mean sea level (levels by Orange County Flood Control District).

REMARKS.--Records poor. Pumping from wells along stream causes low-flow fluctuation in discharge.

COOPERATION.--Five discharge measurements were furnished by Orange County Flood Control District.

AVERAGE DISCHARGE.--27 years, 3.56 ft³/s (0.101 m³/s), 2,580 acre-ft/yr (3.18 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,700 ft³/s (190 m³/s) Feb. 24, 1969, gage height, 11.46 ft (3.493 m), from rating curve extended above 510 ft³/s (14.4 m³/s) on basis of slope-area measurements at gage heights 9.20 ft (2.804 m) and 11.46 ft (3.493 m); no flow for long periods in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s (8.50 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)
Feb. 9	0930	*1220	34.6	5.05	1.539	Mar. 3	0100	418	11.8	3.67	1.119
Mar. 1	1400	841	23.8	4.51	1.375						

Minimum daily discharge, no flow for several days in August and September.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	8.7	2.1	3.1	1.0	164	2.7	2.1	3.4	2.4	3.4	0
2	3.4	6.7	2.4	2.7	3.1	31	3.1	2.7	5.6	1.9	2.7	.07
3	3.4	6.7	4.2	3.1	4.2	94	3.4	3.4	5.1	2.4	2.1	0
4	4.6	4.2	4.6	2.7	11	6.7	21	2.7	4.2	2.7	1.4	0
5	4.2	4.2	2.1	4.6	19	5.0	5.6	.84	4.2	3.4	.84	0
6	4.2	6.7	1.6	5.1	100	4.0	6.1	1.6	3.4	2.4	.23	0
7	4.2	3.8	1.6	4.2	49	3.5	6.1	2.4	3.8	1.6	0	.01
8	2.4	5.6	1.6	3.8	81	3.4	3.4	1.9	3.4	3.4	0	.17
9	4.6	8.0	1.0	4.2	380	2.4	4.2	1.9	1.9	3.4	0	.01
10	6.7	5.1	1.0	5.1	60	1.4	3.1	3.8	16	3.1	0	.96
11	6.1	5.6	.71	2.7	4.6	3.8	1.2	2.7	2.7	4.2	0	0
12	2.4	6.1	6.2	3.8	4.39	2.4	13	2.4	1.4	2.1	0	0
13	1.0	7.3	5.6	2.7	1.4	2.4	25	1.9	1.4	2.4	.06	0
14	4.6	6.1	3.1	3.8	5.1	2.4	4.2	1.4	1.0	2.4	.30	0
15	8.0	6.1	3.1	4.2	3.8	1.6	3.4	1.0	.71	3.4	.08	0
16	3.8	9.4	7.3	2.7	1.0	2.4	6.7	2.1	2.7	2.7	0	0
17	3.4	6.1	5.1	3.8	.71	5.1	3.4	1.4	2.1	4.2	0	0
18	3.1	8.0	6.1	3.4	3.4	3.4	1.9	3.4	1.6	4.2	0	0
19	5.6	9.4	3.8	5.1	1.2	1.6	2.7	3.4	1.6	4.2	0	0
20	4.2	4.6	5.0	3.1	.09	3.8	3.4	3.8	2.4	3.4	0	0
21	3.4	4.2	8.7	3.1	.55	2.4	3.4	1.9	2.1	4.2	0	0
22	6.7	3.4	3.1	2.1	.18	2.1	2.7	1.9	1.2	4.6	0	0
23	4.6	8.7	4.2	.71	.16	3.4	1.9	1.6	2.7	4.2	.01	0
24	6.1	8.7	3.1	3.1	.26	3.1	1.9	1.6	2.1	3.4	.06	0
25	5.6	5.6	4.2	2.4	.30	3.8	1.9	1.4	1.6	4.2	.04	0
26	5.1	1.9	2.7	2.1	1.3	3.4	1.9	.84	2.1	4.6	.15	0
27	4.6	3.5	2.1	1.8	.34	3.4	3.8	1.9	2.7	4.2	.01	0
28	1.6	16	2.4	1.6	.47	4.2	3.8	1.4	2.1	3.4	.01	0
29	6.7	7.3	3.1	1.5	.10	5.6	2.7	2.4	2.1	3.4	.02	0
30	8.7	3.4	4.2	1.4	---	4.6	1.9	1.9	2.7	2.4	.13	0
31	5.6	---	1.6	1.0	---	3.4	---	1.2	---	3.1	.09	---
TOTAL	142.4	191.1	107.61	94.71	733.65	383.7	149.5	64.88	90.01	101.6	11.63	1.22
MEAN	4.59	6.37	3.47	3.06	25.3	12.4	4.98	2.09	3.00	3.28	.38	.041
MAX	8.7	16	8.7	5.1	380	164	25	3.8	16	4.6	3.4	.96
MIN	1.0	1.9	.71	.71	.09	1.4	1.2	.84	.71	1.6	0	0
AC-FT	282	379	213	188	1460	761	297	129	179	202	23	2.4
CAL YR 1975 TOTAL	2207.29		MEAN 6.05	MAX 264	MIN 0	AC-FT 4380						
WTR YR 1976 TOTAL	2072.01		MEAN 5.66	MAX 380	MIN 0	AC-FT 4110						

SAN DIEGO CREEK BASIN

11048500 SAN DIEGO CREEK NEAR IRVINE, CA--Continued

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

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3.8	530	5.4	8.7	300	7.0	2.1	300	1.7
2	3.4	450	4.1	6.7	250	4.5	2.4	320	2.1
3	3.4	350	3.2	6.7	200	3.6	4.2	350	4.0
4	4.6	330	4.1	4.2	240	2.7	4.6	300	3.7
5	4.2	280	3.2	4.2	200	2.3	2.1	250	1.4
6	4.2	230	2.6	6.7	300	5.4	1.6	200	.86
7	4.2	180	2.0	3.8	200	2.1	1.6	170	.73
8	2.4	140	.91	5.6	500	7.6	1.6	120	.52
9	4.6	200	2.5	8.0	1000	22	1.0	100	.27
10	6.7	360	6.5	5.1	400	5.5	1.0	80	.22
11	6.1	650	11	5.6	500	7.6	.71	50	.10
12	2.4	300	1.9	6.1	700	12	6.2	1180	25
13	1.0	100	.27	7.3	1400	28	5.6	500	7.6
14	4.6	400	5.0	6.1	1250	21	3.1	220	1.8
15	8.0	530	11	6.1	800	13	3.1	200	1.7
16	3.8	350	3.6	9.4	1000	25	7.3	900	18
17	3.4	250	2.3	6.1	200	3.3	5.1	600	8.3
18	3.1	180	1.5	8.0	250	5.4	6.1	400	6.6
19	5.6	200	3.0	9.4	300	7.6	3.8	200	2.1
20	4.2	170	1.9	4.6	260	3.2	5.0	722	15
21	3.4	140	1.3	4.2	210	2.4	8.7	550	13
22	6.7	300	5.4	3.4	200	1.8	3.1	350	2.9
23	4.6	230	2.9	8.7	500	12	4.2	400	4.5
24	6.1	350	5.8	8.7	400	9.4	3.1	200	1.7
25	5.6	300	4.5	5.6	200	3.0	4.2	300	3.4
26	5.1	270	3.7	1.9	100	.51	2.7	250	1.8
27	4.6	220	2.7	3.5	396	15	2.1	200	1.1
28	1.6	180	.78	16	2240	168	2.4	200	1.3
29	6.7	250	4.5	7.3	900	18	3.1	200	1.7
30	8.7	360	8.5	3.4	500	4.6	4.2	250	2.8
31	5.6	300	4.5	---	---	---	1.6	150	.65
TOTAL	142.4	---	120.56	191.1	---	423.51	107.61	---	136.55
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	3.1	300	2.5	1.0	150	.41	164	4170	4330
2	2.7	280	2.0	3.1	300	2.5	31	1830	425
3	3.1	300	2.5	4.2	400	4.5	94	2760	1370
4	2.7	250	1.8	11	1000	30	6.7	350	6.3
5	4.6	350	4.3	19	1360	90	5.0	300	4.1
6	5.1	400	5.5	100	3760	1650	4.0	250	2.7
7	4.2	300	3.4	49	2230	436	3.5	220	2.1
8	3.8	210	2.2	81	3260	1350	3.4	190	1.7
9	4.2	260	2.9	380	7620	9420	2.4	150	.97
10	5.1	300	4.1	60	3000	486	1.4	100	.38
11	2.7	70	.51	4.6	500	6.2	3.8	50	.51
12	3.8	250	2.6	.39	40	.04	2.4	200	1.3
13	2.7	200	1.5	1.4	150	.57	2.4	200	1.3
14	3.8	250	2.6	5.1	350	4.8	2.4	200	1.3
15	4.2	280	3.2	3.8	350	3.6	1.6	150	.65
16	2.7	200	1.5	1.0	100	.27	2.4	200	1.3
17	3.8	400	4.1	.71	50	.10	5.1	300	4.1
18	3.4	350	3.2	3.4	350	3.2	3.4	200	1.8
19	5.1	500	6.9	1.2	100	.32	1.6	100	.43
20	3.1	300	2.5	.09	20	0	3.8	150	1.5
21	3.1	250	2.1	.55	50	.07	2.4	100	.65
22	2.1	200	1.1	.18	20	.01	2.1	80	.45
23	.71	300	.58	.16	20	.01	3.4	100	.92
24	3.1	300	2.5	.26	30	.02	3.1	80	.67
25	2.4	200	1.3	.30	30	.02	3.8	100	1.0
26	2.1	200	1.1	1.3	400	1.4	3.4	130	1.2
27	1.8	190	.92	.34	50	.05	3.4	100	.92
28	1.6	190	.82	.47	50	.06	4.2	150	1.7
29	1.5	180	.73	.10	20	.01	5.6	250	3.8
30	1.4	180	.68	---	---	---	4.6	200	2.5
31	1.0	180	.49	---	---	---	3.4	150	1.4
TOTAL	94.71	---	72.13	733.65	---	13490.16	383.7	---	6172.65

11048500 SAN DIEGO CREEK NEAR IRVINE, CA--Continued

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

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	2.7	200	1.5	2.1	150	.85	3.4	350	3.2
2	3.1	250	2.1	2.7	300	2.2	5.6	1000	15
3	3.4	300	2.8	3.4	350	3.2	5.1	1000	14
4	21	654	43	2.7	300	2.2	4.2	800	9.1
5	5.6	500	7.6	.84	150	.34	4.2	800	9.1
6	6.1	500	8.2	1.6	100	.43	3.4	600	5.5
7	6.1	400	6.6	2.4	150	.97	3.8	700	7.2
8	3.4	300	2.8	1.9	100	.51	3.4	600	5.5
9	4.2	350	4.0	1.9	80	.41	1.9	400	2.1
10	3.1	250	2.1	3.8	150	1.5	16	1570	118
11	1.2	50	.16	2.7	100	.73	2.7	1200	8.7
12	13	388	93	2.4	60	.39	1.4	800	3.0
13	25	840	95	1.9	40	.21	1.4	700	2.6
14	4.2	400	4.5	1.4	30	.11	1.0	600	1.6
15	3.4	200	1.8	1.0	20	.05	.71	400	.77
16	6.7	300	5.4	2.1	50	.28	2.7	1000	7.3
17	3.4	150	1.4	1.4	40	.15	2.1	800	4.5
18	1.9	50	.26	3.4	100	.92	1.6	600	2.6
19	2.7	80	.58	3.4	100	.92	1.6	500	2.2
20	3.4	100	.92	3.8	200	2.1	2.4	800	5.2
21	3.4	80	.73	1.9	150	.77	2.1	700	4.0
22	2.7	60	.44	1.9	100	.51	1.2	800	2.6
23	1.9	50	.26	1.6	350	1.5	2.7	700	5.1
24	1.9	40	.21	1.6	500	2.2	2.1	700	4.0
25	1.9	30	.15	1.4	400	1.5	1.6	1000	4.3
26	1.9	20	.10	.84	100	.23	2.1	1200	6.8
27	3.8	200	2.1	1.9	200	1.0	2.7	1300	9.5
28	3.8	200	2.1	1.4	150	.57	2.1	1400	7.9
29	2.7	180	1.3	2.4	250	1.6	2.1	1400	7.9
30	1.9	150	.77	1.9	200	1.0	2.7	1500	11
31	---	---	---	1.2	150	.49	---	---	---
TOTAL	149.5	---	291.88	64.88	---	29.84	90.01	---	290.27

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.4	2000	13	3.4	850	7.8	0	50	0
2	1.9	3000	15	2.7	650	4.7	.07	20	0
3	2.4	2000	13	2.1	650	3.7	0	0	0
4	2.7	3000	22	1.4	650	2.5	0	0	0
5	3.4	3000	28	.84	650	1.5	0	0	0
6	2.4	2000	13	.23	300	.19	0	0	0
7	1.6	850	3.7	0	0	0	.01	0	0
8	3.4	3000	28	0	0	0	.17	50	.02
9	3.4	3000	28	0	0	0	.01	100	0
10	3.1	3000	25	0	0	0	.96	298	2.8
11	4.2	3000	34	0	0	0	0	23	0
12	2.1	3500	20	0	0	0	0	0	0
13	2.4	2500	16	.06	0	0	0	0	0
14	2.4	2500	16	.30	50	.04	0	0	0
15	3.4	2500	23	.08	20	0	0	0	0
16	2.7	2000	15	0	0	0	0	0	0
17	4.2	1900	22	0	0	0	0	0	0
18	4.2	1800	20	0	0	0	0	0	0
19	4.2	1700	19	0	0	0	0	0	0
20	3.4	1600	15	0	20	0	0	0	0
21	4.2	1500	17	0	20	0	0	0	0
22	4.6	1400	17	0	20	0	0	0	0
23	4.2	1300	15	.01	10	0	0	0	0
24	3.4	1200	11	.06	60	.01	0	0	0
25	4.2	1200	14	.04	40	0	0	0	0
26	4.6	1300	16	.15	80	.03	0	0	0
27	4.2	1200	14	.01	30	0	0	0	0
28	3.4	1100	10	.01	30	0	0	0	0
29	3.4	1100	10	.02	40	0	0	0	0
30	2.4	800	5.2	.13	70	.02	0	0	0
31	3.1	1000	8.4	.09	50	.01	---	---	---
TOTAL	101.6	---	526.3	11.63	---	20.50	1.22	---	2.82
YEAR	2072.01		21577.17						

SAN DIEGO CREEK BASIN

11048500 SAN DIEGO CREEK NEAR IRVINE, CA--Continued

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

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1975	142.40	120.56	134	255
NOVEMBER ...	191.10	423.51	295	719
DECEMBER ...	107.61	136.55	82	219
JANUARY 1976	94.71	72.13	45	117
FEBRUARY ...	733.65	13490.16	6660	20200
MARCH	383.70	6172.65	3070	9240
APRIL	149.50	291.88	345	637
MAY	64.88	29.84	16	46
JUNE	90.01	290.27	91	381
JULY	101.60	526.30	47	573
AUGUST	11.63	20.50	3	23
SEPTEMBER ..	1.22	2.82	0	3
TOTAL	2072.01	21577.17	10788	32413

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

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
NOV										
19...	1615	13.5	6.7	226	4.1	--	--	--	--	--
28...	1040	8.5	43	7450	865	26	29	31	40	52
28...	1100	8.5	62	7620	1280	27	30	36	44	56
DEC										
08...	0900	8.5	1.8	120	.58	--	--	--	--	--
18...	1120	10.5	8.0	465	10	41	47	51	56	64
JAN										
02...	1145	8.0	3.0	322	2.6	77	86	91	95	95
30...	1145	14.0	.84	176	.40	--	--	--	--	--
FEB										
06...	1100	12.0	75	3270	662	33	38	43	47	51
09...	1020	--	968	13400	35000	30	33	35	41	49
09...	1425	--	145	5600	2190	26	27	30	34	38
MAR										
01...	1710	15.5	354	8510	8130	18	20	23	26	30
03...	1005	10.0	110	2970	882	22	25	28	31	35
03...	1445	11.5	32	1400	121	35	40	43	45	48
APR										
13...	1315	19.5	18	559	27	41	47	49	53	58
JUN										
28...	0850	21.0	4.2	2560	29	59	68	78	85	92

11048500 SAN DIEGO CREEK NEAR IRVINE, CA--Continued

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

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
NOV										
19...	--	83	--	93	--	99	--	100	--	--
28...	62	--	78	--	93	--	100	--	--	--
28...	67	--	87	--	94	--	100	--	--	--
DEC										
08...	--	98	--	100	--	--	--	--	--	--
18...	--	75	--	93	--	100	--	--	--	--
JAN										
02...	--	95	--	98	--	100	--	--	--	--
30...	--	95	--	98	--	100	--	--	--	--
FEB										
06...	63	--	84	--	98	--	100	--	--	--
09...	60	--	78	--	92	--	98	--	100	--
09...	45	--	63	--	88	--	98	--	100	--
MAR										
01...	36	--	51	--	75	--	93	--	100	--
03...	43	--	62	--	92	--	100	--	--	--
03...	--	53	--	70	--	92	--	99	--	100
APR										
13...	--	66	--	82	--	96	--	100	--	--
JUN										
28...	--	97	--	99	--	100	--	--	--	--

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

DATE	TIME	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM
SEP											
29...	1045	3	.00	1	3	15	53	84	97	99	100

SAN DIEGO CREEK BASIN

11048530 EL MODENA-IRVINE CHANNEL NEAR IRVINE, CA

LOCATION.--Lat 33°42'49", long 117°48'01", in Lomas Santiago Grant, Orange County, on downstream side of county road bridge, 50 ft (30 m) west of intersection of Myford Road and Walnut Avenue, 0.5 mi (0.8 km) southwest of Interstate 5.

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 60 ft (19 m), from topographic map.

REMARKS.--Records good.

COOPERATION.--Records of discharge were furnished by Orange County Flood Control District and reviewed by the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,040 ft³/s (29.5 m³/s) Dec. 4, 1974, gage height, 8.40 ft (2.560 m); minimum daily, 0.20 ft³/s (0.006 m³/s) for several days in 1975 and 1976 water years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 388 ft³/s (11.0 m³/s) Sept. 19, gage height, 4.75 ft (1.448 m); minimum daily, 0.20 ft³/s (0.006 m³/s) several days in March and April.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	.90	1.0	3.9	.90	44	.20	.60	.70	1.2	1.0	.60
2	1.0	.60	.90	4.1	.90	20	.20	.90	.70	1.0	.80	.80
3	1.0	.60	1.0	5.1	3.1	16	2.7	1.2	.70	1.0	.70	.70
4	1.2	.50	1.3	5.1	5.6	.20	12	1.4	.50	1.4	.90	.90
5	1.1	.80	1.1	4.5	12	.20	.30	1.6	.60	1.4	.80	10
6	1.2	.90	1.8	3.1	31	.20	.30	1.5	.70	1.4	1.0	1.5
7	3.1	.90	1.1	2.5	29	.30	.20	1.4	.70	1.1	1.4	1.2
8	1.7	.90	.90	3.1	29	.30	.30	.80	.80	.90	1.3	.90
9	1.5	.90	.70	3.5	43	.30	.20	.70	.80	.90	1.0	.90
10	1.6	.80	.70	3.7	1.5	.30	.50	.60	21	1.0	1.3	101
11	1.8	.50	.80	3.2	.40	.30	.50	.60	.60	1.0	1.7	14
12	1.0	.60	2.3	2.4	.40	.30	15	.60	.50	1.0	1.6	.90
13	1.1	.90	1.0	1.8	.40	.30	12	.70	.70	1.1	1.3	.90
14	.90	1.0	1.0	1.6	.40	.40	.40	1.0	.40	1.2	1.2	.70
15	1.6	1.0	1.3	1.0	.40	.40	.40	.80	.40	1.6	1.0	.80
16	1.9	.60	1.2	.70	.40	.40	.40	.60	.40	2.0	1.2	.70
17	1.5	.60	1.2	1.1	.40	.20	.40	.60	.40	1.8	1.4	.50
18	1.3	.50	1.2	1.8	.40	.20	.30	.70	.60	1.6	1.3	.90
19	1.3	.40	1.1	1.6	.40	.30	.30	1.0	.60	1.9	1.0	.60
20	.90	.40	4.8	1.0	.40	.30	.50	2.2	.60	1.7	.80	.70
21	1.0	.60	2.5	1.4	.40	.20	.50	1.9	.60	1.4	.90	.90
22	1.4	1.0	1.8	1.1	.40	.20	.50	1.7	.60	1.3	.70	.80
23	1.2	1.2	1.7	1.0	.40	.20	.50	1.6	1.0	1.3	.50	.90
24	1.9	.90	1.4	1.0	.50	.30	.60	1.7	.80	1.6	.50	1.0
25	1.8	.90	1.4	.90	.60	.30	1.2	1.8	.60	1.1	.60	1.5
26	1.2	1.1	1.4	.90	.60	.40	.50	1.6	.60	1.8	.60	1.8
27	1.0	1.4	1.6	.90	.70	.30	.70	.90	.50	.90	.70	1.0
28	.80	9.8	1.5	.90	.70	.30	.60	1.1	.70	.90	.70	1.1
29	.60	1.2	1.2	.90	.50	.20	.70	.90	.90	1.0	.70	1.0
30	3.0	1.0	1.7	.90	---	.20	.60	.90	.70	1.2	1.0	.80
31	1.0	---	2.4	.90	---	.20	---	.70	---	1.3	.80	---
TOTAL	42.70	33.40	45.00	65.60	164.80	87.70	53.50	34.30	39.40	40.00	30.40	150.00
MEAN	1.38	1.11	1.45	2.12	5.68	2.83	1.78	1.11	1.31	1.29	.98	5.00
MAX	3.1	9.8	4.8	5.1	43	44	15	2.2	21	2.0	1.7	101
MIN	.60	.40	.70	.40	.40	.20	.20	.60	.40	.90	.50	.50
AC-FT	85	66	89	130	327	174	106	68	78	79	60	298
CAL YR 1975	TOTAL	776.30	MEAN	2.13	MAX	64	MIN	.20	AC-FT	1540		
WTR YR 1976	TOTAL	786.80	MEAN	2.15	MAX	101	MIN	.20	AC-FT	1560		

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

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.1	124	.37	.90	89	.22	1.0	13	.04
2	1.0	95	.26	.60	58	.09	.90	22	.05
3	1.0	67	.18	.60	25	.04	1.0	51	.14
4	1.2	39	.13	.50	35	.05	1.3	61	.21
5	1.1	40	.12	.80	45	.10	1.1	71	.21
6	1.2	40	.13	.90	55	.13	1.8	82	.40
7	3.1	218	3.9	.90	65	.16	1.1	90	.27
8	1.7	108	.50	.90	75	.18	.90	99	.24
9	1.5	103	.42	.90	85	.21	.70	92	.17
10	1.6	98	.42	.80	95	.21	.70	86	.16
11	1.8	149	1.2	.50	105	.14	.80	80	.17
12	1.0	128	.35	.60	115	.19	2.3	91	.88
13	1.1	163	.48	.90	125	.30	1.0	150	.41
14	.90	198	.48	1.0	135	.36	1.0	120	.32
15	1.6	234	1.0	1.0	122	.33	1.3	96	.34
16	1.9	191	.98	.60	111	.18	1.2	73	.24
17	1.5	148	.60	.60	100	.16	1.2	50	.16
18	1.3	105	.37	.50	89	.12	1.2	26	.08
19	1.3	86	.30	.40	78	.08	1.1	26	.08
20	.90	66	.16	.40	95	.10	4.8	96	3.3
21	1.0	41	.11	.60	112	.18	2.5	53	.36
22	1.4	59	.22	1.0	94	.25	1.8	50	.24
23	1.2	78	.25	1.2	84	.27	1.7	47	.22
24	1.9	72	.37	.90	73	.18	1.4	44	.17
25	1.8	66	.32	.90	62	.15	1.4	41	.15
26	1.2	60	.19	1.1	51	.15	1.4	38	.14
27	1.0	64	.17	1.4	51	.19	1.6	35	.15
28	.80	67	.14	9.8	1530	128	1.5	32	.13
29	.60	70	.11	1.2	40	.13	1.2	29	.09
30	3.0	252	10	1.0	26	.07	1.7	12	.06
31	1.0	90	.24	---	---	---	2.4	24	.16
TOTAL	42.70	---	24.47	33.40	---	132.92	45.00	---	9.74

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	3.9	36	.38	.90	29	.07	44	1230	414
2	4.1	48	.53	.90	50	.12	20	590	287
3	5.1	45	.62	3.1	138	3.6	16	1040	110
4	5.1	42	.58	5.6	348	9.8	.20	49	.03
5	4.5	39	.47	12	472	28	.20	49	.03
6	3.1	36	.30	31	775	172	.20	49	.03
7	2.5	74	.50	29	624	94	.30	36	.03
8	3.1	113	.95	29	707	110	.30	24	.02
9	3.5	108	1.0	43	1050	245	.30	12	.01
10	3.7	103	1.0	1.5	39	.16	.30	18	.01
11	3.2	98	.85	.40	21	.02	.30	24	.02
12	2.4	110	.71	.40	4	0	.30	30	.02
13	1.8	122	.59	.40	4	0	.30	50	.04
14	1.6	135	.58	.40	3	0	.40	69	.07
15	1.0	111	.30	.40	3	0	.40	60	.06
16	.70	87	.16	.40	2	0	.40	51	.06
17	1.1	63	.19	.40	2	0	.20	43	.02
18	1.8	54	.26	.40	1	0	.20	35	.02
19	1.6	44	.19	.40	9	.01	.30	27	.02
20	1.0	34	.09	.40	17	.02	.30	62	.05
21	1.4	138	.52	.40	27	.03	.20	60	.03
22	1.1	243	.72	.40	37	.04	.20	58	.03
23	1.0	102	.28	.40	46	.05	.20	56	.03
24	1.0	80	.22	.50	41	.06	.30	54	.04
25	.90	48	.12	.60	37	.06	.30	52	.04
26	.90	64	.16	.60	33	.05	.40	50	.05
27	.90	80	.19	.70	26	.05	.30	62	.05
28	.90	85	.21	.70	29	.05	.30	54	.04
29	.90	90	.22	.50	32	.04	.20	46	.02
30	.90	96	.23	---	---	---	.20	41	.02
31	.90	62	.15	---	---	---	.20	---	---
TOTAL	65.60	---	13.27	164.80	---	663.23	87.70	---	811.89

11048530 EL MODENA IRVINE CHANNEL NEAR IRVINE, CA--Continued
 SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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	.20	36	.02	.60	57	.09	.70	125	.24
2	.20	36	.02	.90	108	.26	.70	132	.25
3	2.7	102	20	1.2	159	.52	.70	146	.28
4	12	453	61	1.4	158	.60	.50	160	.22
5	.30	30	.02	1.6	157	.68	.60	175	.28
6	.30	41	.03	1.5	156	.63	.70	190	.36
7	.20	52	.03	1.4	155	.59	.70	205	.39
8	.30	63	.05	.80	154	.33	.80	200	.43
9	.20	79	.04	.70	153	.29	.80	200	.43
10	.50	95	.13	.60	152	.25	21	654	100
11	.50	111	.15	.60	151	.24	.60	30	.05
12	15	414	108	.60	150	.24	.50	30	.04
13	12	633	40	.70	141	.27	.70	30	.06
14	.40	57	.06	1.0	134	.36	.40	30	.03
15	.40	57	.06	.80	127	.27	.40	30	.03
16	.40	31	.03	.60	120	.19	.40	30	.03
17	.40	6	.01	.60	113	.18	.40	30	.03
18	.30	10	.01	.70	106	.20	.60	29	.05
19	.30	27	.02	1.0	99	.27	.60	29	.05
20	.50	44	.06	2.2	92	.55	.60	28	.05
21	.50	25	.03	1.9	85	.44	.60	28	.05
22	.50	6	.01	1.7	78	.36	.60	28	.05
23	.50	22	.03	1.6	71	.31	1.0	31	.08
24	.60	38	.06	1.7	64	.29	.80	34	.07
25	1.2	44	.14	1.8	72	.35	.60	36	.06
26	.50	27	.04	1.6	80	.35	.60	37	.06
27	.70	10	.02	.90	88	.21	.50	38	.05
28	.60	8	.01	1.1	97	.29	.70	40	.08
29	.70	7	.01	.90	104	.25	.90	93	.23
30	.60	6	.01	.90	111	.27	.70	146	.28
31	---	---	---	.70	118	.22	---	---	---
TOTAL	53.50	---	230.10	34.30	---	10.35	39.40	---	104.31
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.2	513	1.7	1.0	250	.68	.60	120	.19
2	1.0	870	2.3	.80	327	.71	.80	94	.20
3	1.0	707	1.9	.70	204	.39	.70	69	.13
4	1.4	544	2.1	.90	81	.20	.90	77	.19
5	1.4	381	1.4	.80	121	.26	10	342	52
6	1.4	218	.82	1.0	161	.43	1.5	212	2.1
7	1.1	232	.69	1.4	201	.76	1.2	102	.33
8	.90	201	.49	1.3	240	.84	.90	108	.26
9	.90	170	.41	1.0	209	.56	.90	108	.26
10	1.0	140	.38	1.3	178	.62	101	1930	1150
11	1.0	183	.49	1.7	212	.97	14	335	63
12	1.0	226	.61	1.6	251	1.1	.90	13	.03
13	1.1	171	.51	1.3	212	.74	.90	13	.03
14	1.2	117	.38	1.2	172	.56	.70	16	.03
15	1.6	196	.85	1.0	132	.36	.80	19	.04
16	2.0	178	.96	1.2	145	.47	.70	22	.04
17	1.8	161	.78	1.4	158	.60	.50	25	.03
18	1.6	144	.62	1.3	171	.60	.90	29	.07
19	1.9	127	.65	1.0	184	.50	.60	34	.06
20	1.7	110	.50	.80	198	.43	.70	32	.06
21	1.4	93	.35	.90	135	.33	.90	31	.08
22	1.3	76	.27	.70	123	.23	.80	30	.06
23	1.3	86	.30	.50	120	.16	.90	29	.07
24	1.6	96	.41	.50	118	.16	1.0	27	.07
25	1.1	106	.31	.60	116	.19	1.5	25	.10
26	1.8	123	.60	.60	114	.18	1.8	23	.11
27	.90	140	.34	.70	112	.21	1.0	25	.07
28	.90	157	.38	.70	62	.12	1.1	27	.08
29	1.0	175	.47	.70	76	.14	1.0	29	.08
30	1.2	193	.63	1.0	91	.25	.80	31	.07
31	1.3	200	.70	.80	106	.23	---	---	---
TOTAL	40.00	---	23.30	30.40	---	13.98	150.00	---	1269.84
YEAR	786.80		3307.40						

SAN DIEGO CREEK BASIN

11048530 EL MODENA IRVINE CHANNEL NEAR IRVINE, CA--Continued

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

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1975	42.70	24.47	0	24
NOVEMBER ...	33.40	132.92	1	134
DECEMBER ...	45.00	9.74	0	10
JANUARY 1976	65.60	13.27	0	13
FEBRUARY ...	164.80	663.23	117	780
MARCH	87.70	811.89	66	878
APRIL	53.50	230.10	8	238
MAY	34.30	10.35	0	10
JUNE	39.40	104.31	9	113
JULY	40.00	23.30	0	23
AUGUST	30.40	13.98	0	14
SEPTEMBER ..	150.00	1269.84	313	1580
TOTAL	786.80	3307.40	514	3817

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

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
NOV 28...	1130	11.0	64	8220	1420	52	59	64	78	89
FEB 06...	0850	11.0	26	691	49	61	69	77	85	90
07...	0905	12.0	66	1450	258	44	51	58	66	75
07...	1130	12.0	29	381	30	69	75	82	88	91
09...	1450	16.0	8.1	310	6.8	79	87	94	98	99
MAR 01...	1400	16.0	218	4570	2690	30	33	38	45	68
03...	1130	17.0	130	3410	1200	31	35	39	45	51
JUL 02...	0935	23.0	1.5	870	3.5	60	74	86	96	99
AUG 08...	0920	19.5	1.2	121	.39	--	--	--	--	--
SEP 10...	1210	23.0	11	268	8.0	--	--	--	--	--
11...	0625	20.5	7.1	216	4.1	87	98	99	99	99

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
NOV 28...	96	--	98	--	100	--	--	--	--
FEB 06...	--	92	--	93	--	97	--	100	--
07...	81	--	85	--	92	--	100	--	--
07...	--	93	--	94	--	98	--	100	--
09...	--	99	--	99	--	100	--	--	--
MAR 01...	68	--	85	--	95	--	100	--	--
03...	58	--	67	--	75	--	87	--	100
JUL 02...	--	100	--	--	--	--	--	--	--
AUG 08...	--	96	--	98	--	100	--	--	--
SEP 10...	--	93	--	94	--	95	--	100	--
11...	--	99	--	100	--	--	--	--	--

11048530 EL MODENA IRVINE CHANNEL NEAR IRVINE, CA--Continued

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

DATE	TIME	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	BED	BED	BED	BED	BED	BED	BED	BED	BED
				MAT. SIEVE DIAM. % FINER THAN .125 MM	MAT. SIEVE DIAM. % FINER THAN .250 MM	MAT. SIEVE DIAM. % FINER THAN .500 MM	MAT. SIEVE DIAM. % FINER THAN 1.00 MM	MAT. SIEVE DIAM. % FINER THAN 2.00 MM	MAT. SIEVE DIAM. % FINER THAN 4.00 MM	MAT. SIEVE DIAM. % FINER THAN 8.00 MM	MAT. SIEVE DIAM. % FINER THAN 16.0 MM	MAT. SIEVE DIAM. % FINER THAN 32.0 MM
SEP 29...	1100	3	1.7	1	8	47	71	80	88	94	97	100

SAN DIEGO CREEK BASIN

11048550 SAN DIEGO CREEK AT LANE ROAD, NEAR IRVINE, CA

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

PERIOD OF RECORD.--October 1973 to current year. Previous records published by Orange County Flood Control District.

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

REMARKS.--Records poor because of undefined rating above 100 ft³/s (2.83 m³/s). Low-flow discharge is affected by ground-water pumping and irrigation runoff.

COOPERATION.--Records were furnished by Orange County Flood Control District and reviewed by the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,000 ft³/s (113 m³/s) Dec. 4, 1974, gage height, 8.76 ft (2.760 m), from rating curve extended above 100 ft³/s (2.83 m³/s); minimum daily, 4.2 ft³/s (0.12 m³/s) Dec. 31, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,035 ft³/s (29.3 m³/s) Feb. 9, gage height, 5.05 ft (1.539 m), from rating curve extended above 100 ft³/s (2.83 m³/s); minimum daily, 4.9 ft³/s (0.14 m³/s) Feb. 24, 28, 29.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	14	6.8	6.6	7.1	274	9.9	11	15	23	13	7.1
2	18	14	6.8	7.6	7.1	108	9.9	12	20	19	11	9.0
3	18	14	7.3	7.6	13	160	11	12	18	19	15	13
4	17	13	8.4	7.6	20	14	85	11	16	19	10	13
5	18	15	7.3	8.4	26	8.7	19	11	16	19	27	13
6	16	13	7.3	8.4	195	9.0	14	12	15	18	13	19
7	32	12	7.8	7.1	120	9.6	13	14	18	19	15	15
8	14	15	7.3	8.1	148	9.0	11	11	18	19	8.7	13
9	14	15	6.8	8.7	455	9.3	11	11	18	21	9.0	10
10	21	15	6.6	9.3	33	9.9	9.6	14	144	21	7.8	150
11	23	14	6.6	8.1	10	10	8.7	14	20	21	12	40
12	18	12	10	7.8	7.6	9.9	62	13	12	20	12	20
13	13	14	9.8	8.1	7.6	9.6	158	14	12	21	10	15
14	13	15	7.3	8.7	9.0	9.3	14	15	10	22	12	10
15	18	15	7.6	8.4	7.8	9.3	14	15	11	25	12	7.0
16	19	14	9.0	7.1	6.6	9.3	16	16	13	14	27	7.0
17	15	14	9.0	7.6	6.6	10	10	15	14	26	13	7.0
18	14	13	9.0	8.1	8.1	10	9.3	15	13	26	15	7.0
19	17	13	8.7	8.1	6.3	8.7	10	17	15	22	9.9	7.0
20	15	13	22	7.3	5.1	9.9	11	20	15	22	8.7	7.3
21	14	13	12	7.8	5.3	9.6	12	19	16	22	14	7.1
22	16	12	7.8	7.3	5.3	9.0	13	18	16	22	10	7.0
23	15	13	7.6	6.8	5.8	9.9	11	16	17	22	9.3	6.8
24	18	13	7.3	7.8	4.9	9.0	11	16	18	22	7.6	9.3
25	19	13	6.8	6.8	5.3	9.9	11	16	18	22	11	6.8
26	16	12	6.6	7.6	6.1	10	12	16	20	22	7.1	7.1
27	15	12	6.8	9.0	5.3	9.6	12	15	19	30	9.3	6.6
28	13	85	6.1	8.4	4.9	12	13	16	19	22	11	7.6
29	13	11	6.6	8.4	4.9	10	12	15	19	31	7.8	8.1
30	27	7.6	8.4	7.6	---	10	11	15	21	15	6.8	7.3
31	17	---	7.1	7.6	---	9.9	---	14	---	16	8.7	---
TOTAL	532	468.6	254.5	243.8	1146.7	816.4	624.4	449	616	662	363.7	463.1
MEAN	17.2	15.6	8.21	7.86	39.5	26.3	20.8	14.5	20.5	21.4	11.7	15.4
MAX	32	85	22	9.3	455	274	158	20	144	31	27	150
MIN	13	7.6	6.1	6.6	4.9	8.7	8.7	11	10	14	6.8	6.6
AC-FT	1060	929	505	484	2270	1620	1240	891	1220	1310	721	919
CAL YR 1975	TOTAL	5679.3	MEAN 15.6	MAX 325	MIN 4.8	AC-FT 11260						
WTR YR 1976	TOTAL	6640.2	MEAN 18.1	MAX 455	MIN 4.9	AC-FT 13170						

SAN DIEGO CREEK BASIN

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

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

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	16	443	19	14	160	6.0	6.8	118	2.2
2	18	400	19	14	190	7.2	6.8	140	2.6
3	18	365	18	14	229	8.7	7.3	162	3.2
4	17	332	15	13	236	8.3	8.4	162	3.7
5	18	325	16	15	244	9.9	7.3	161	3.2
6	16	315	14	13	251	8.8	7.3	161	3.2
7	32	715	62	12	259	8.4	7.8	140	2.9
8	14	496	19	15	266	11	7.3	121	2.4
9	14	300	11	15	274	11	6.8	110	2.0
10	21	1000	57	15	281	11	6.6	105	1.9
11	23	740	46	14	289	11	6.6	100	1.8
12	18	580	28	12	296	9.6	10	470	13
13	13	480	17	14	304	11	9.8	289	7.6
14	13	380	13	15	312	13	7.3	179	3.5
15	18	382	19	15	290	12	7.6	170	3.5
16	19	440	23	14	270	10	9.0	160	3.9
17	15	480	19	14	250	9.5	9.0	150	3.6
18	14	239	9.0	13	230	8.1	9.0	140	3.4
19	17	480	22	13	210	7.4	8.7	130	3.1
20	15	440	18	13	190	6.7	22	470	47
21	14	400	15	13	186	6.5	12	325	11
22	16	360	16	12	434	14	7.8	150	3.2
23	15	322	13	13	410	14	7.6	130	2.7
24	18	270	13	13	380	13	7.3	120	2.4
25	19	255	13	13	350	12	6.8	115	2.1
26	16	243	10	12	348	11	6.6	110	2.0
27	15	250	10	12	436	14	6.8	105	1.9
28	13	265	9.3	85	1410	324	6.1	102	1.7
29	13	280	9.8	11	750	22	6.6	99	1.8
30	27	602	44	7.6	250	5.1	8.4	198	4.5
31	17	200	9.2	---	---	---	7.1	150	2.9
TOTAL	532	---	626.3	468.6	---	624.2	254.5	---	153.9
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	6.6	130	2.3	7.1	496	9.5	274	3090	4240
2	7.6	156	3.2	7.1	450	8.6	108	2370	691
3	7.6	130	2.7	13	1840	85	160	2310	998
4	7.6	120	2.5	20	1460	103	14	1500	57
5	8.4	150	3.4	26	865	73	8.7	430	10
6	8.4	140	3.2	195	2950	2750	9.0	178	4.3
7	7.1	130	2.5	120	1340	617	9.6	200	5.2
8	8.1	180	3.9	148	1990	1270	9.0	220	5.3
9	8.7	220	5.2	455	5020	8770	9.3	244	6.1
10	9.3	240	6.0	33	2040	182	9.9	215	5.7
11	8.1	182	4.0	10	700	19	10	200	5.4
12	7.8	170	3.6	7.6	79	1.6	9.9	180	4.8
13	8.1	250	5.5	7.6	110	2.3	9.6	110	2.9
14	8.7	367	8.6	9.0	140	3.4	9.3	74	1.9
15	8.4	228	5.2	7.8	180	3.8	9.3	92	2.3
16	7.1	300	5.8	6.6	230	4.1	9.3	103	2.6
17	7.6	381	7.8	6.6	310	5.5	10	122	3.3
18	8.1	330	7.2	8.1	406	8.9	10	147	4.0
19	8.1	280	6.1	6.3	350	6.0	8.7	177	4.2
20	7.3	246	4.8	5.1	296	4.1	9.9	114	3.0
21	7.8	250	5.3	5.3	280	4.0	9.6	102	2.6
22	7.3	290	5.7	5.3	250	3.6	9.0	105	2.6
23	6.8	330	6.1	5.8	235	3.7	9.9	109	2.9
24	7.8	320	6.7	4.9	220	2.9	9.0	115	2.8
25	6.8	276	5.1	5.3	195	2.8	9.9	122	3.3
26	7.6	360	7.4	6.1	152	2.5	10	227	6.1
27	9.0	590	14	5.3	286	4.1	9.6	86	2.2
28	8.4	600	14	4.9	305	4.0	12	97	3.1
29	8.4	640	15	4.9	300	4.0	10	116	3.1
30	7.6	668	14	---	---	---	10	150	4.1
31	7.6	600	12	---	---	---	9.9	180	4.8
TOTAL	243.8	---	198.8	1146.7	---	13958.4	816.4	---	6094.6

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

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

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	9.9	225	6.0	11	190	5.6	15	410	17
2	9.9	300	8.0	12	300	9.7	20	1000	54
3	11	450	13	12	458	15	18	820	40
4	85	1070	441	11	450	13	16	690	30
5	19	340	17	11	442	13	16	600	26
6	14	350	13	12	438	14	15	530	21
7	13	360	13	14	434	16	18	1020	50
8	11	372	11	11	430	13	18	960	47
9	11	260	7.7	11	426	13	18	920	45
10	9.6	160	4.1	14	422	16	144	2190	851
11	8.7	79	1.9	14	418	16	20	1600	86
12	62	492	82	13	410	14	12	1400	45
13	158	1330	1160	14	405	15	12	1290	42
14	14	365	14	15	400	16	10	1200	32
15	14	97	3.7	15	395	16	11	1180	35
16	16	120	5.2	16	390	17	13	1140	40
17	10	74	2.0	15	385	16	14	1000	38
18	9.3	37	.93	15	380	15	13	910	32
19	10	48	1.3	17	375	17	15	850	34
20	11	61	1.8	20	500	27	15	780	32
21	12	80	2.6	19	440	23	16	710	31
22	13	98	3.4	18	400	19	16	611	26
23	11	82	2.4	16	385	17	17	760	35
24	11	67	2.0	16	372	16	18	1200	58
25	11	63	1.9	16	365	16	18	1460	71
26	12	84	2.7	16	360	16	20	1400	76
27	12	132	4.3	15	358	14	19	1300	67
28	13	175	6.1	16	355	15	19	1250	64
29	12	140	4.5	15	352	14	19	1500	77
30	11	121	3.6	15	349	14	21	1770	100
31	---	---	---	14	344	13	---	---	---
TOTAL	624.4	---	1840.13	449	---	474.3	616	---	2202
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	23	1510	94	13	540	19	7.1	358	6.9
2	19	1440	74	11	503	15	9.0	320	7.8
3	19	1320	68	15	590	24	13	274	9.6
4	19	1100	56	10	786	21	13	230	8.1
5	19	1020	52	27	1450	106	13	200	7.0
6	18	939	46	13	1320	46	19	500	26
7	19	2040	105	15	1230	50	15	250	10
8	19	1400	72	8.7	1140	27	13	135	4.7
9	21	1300	74	9.0	750	18	10	110	3.0
10	21	1230	70	7.8	451	9.5	150	2300	931
11	21	1340	76	12	397	13	40	501	54
12	20	1500	81	12	330	11	20	110	5.9
13	21	1420	81	10	245	6.6	15	176	7.1
14	22	1350	80	12	165	5.3	10	150	4.1
15	25	866	58	12	107	3.5	7.0	125	2.4
16	14	310	12	27	1500	109	7.0	105	2.0
17	26	590	41	13	980	34	7.0	86	1.6
18	26	515	36	15	536	22	7.0	71	1.3
19	22	500	30	9.9	565	15	7.0	60	1.1
20	22	310	18	8.7	595	14	7.3	63	1.2
21	22	280	17	14	520	20	7.1	66	1.3
22	22	234	14	10	415	11	7.0	69	1.3
23	22	390	23	9.3	360	9.0	6.8	72	1.3
24	22	600	36	7.6	330	6.8	9.3	75	1.9
25	22	931	55	11	315	9.4	6.8	78	1.4
26	22	810	48	7.1	300	5.8	7.1	84	1.6
27	30	750	61	9.3	269	6.8	6.6	76	1.4
28	22	710	42	11	381	11	7.6	70	1.4
29	31	660	55	7.8	375	7.9	8.1	62	1.4
30	15	620	25	6.8	370	6.8	7.3	55	1.1
31	16	605	26	8.7	365	8.6	---	---	---
TOTAL	662	---	1626	363.7	---	672.0	463.1	---	1108.9
YEAR	6640.2		29579.53						

SAN DIEGO CREEK BASIN

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

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

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1975	532.00	626.30	367	993
NOVEMBER ...	468.60	624.20	334	958
DECEMBER ...	254.50	153.90	130	284
JANUARY 1976	243.80	198.80	119	318
FEBRUARY ...	1146.70	13958.40	1420	15400
MARCH	816.40	6094.60	879	6970
APRIL	624.40	1840.13	560	2400
MAY	449.00	474.30	288	762
JUNE	616.00	2202.00	502	2700
JULY	662.00	1626.00	495	2120
AUGUST	363.70	672.00	220	892
SEPTEMBER ..	463.10	1108.90	385	1490
TOTAL	6640.20	29579.53	5699	35287

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

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT DIS- CHARGE (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
NOV										
14...	1430	20.0	17	315	14	77	85	93	99	100
28...	1345	12.0	290	2130	1670	51	64	77	89	96
DEC										
06...	1100	13.0	8.1	1610	35	--	--	--	--	--
JAN										
02...	1220	11.5	7.8	1560	33	--	--	--	--	--
FEB										
06...	0640	11.0	660	5230	9320	42	51	59	70	84
06...	0805	11.0	592	4040	6460	48	54	58	72	86
06...	1200	12.5	125	2040	688	55	64	73	81	91
06...	1315	13.0	81	1920	420	55	64	73	80	90
06...	1435	13.5	55	1780	264	56	65	73	80	90
07...	1005	12.0	340	2630	2410	48	54	62	70	83
07...	1200	13.0	207	1550	866	48	56	64	73	84
09...	0900	13.0	410	3930	4350	47	50	53	62	72
09...	1030	13.0	1040	12400	34800	45	49	54	64	77
APR										
01...	0945	15.0	27	225	16	--	--	--	--	--
13...	1245	20.0	56	734	111	36	41	45	50	55
JUL										
22...	0925	20.0	22	332	20	79	88	95	99	99
22...	1150	23.0	22	136	8.1	--	--	--	--	--
SEP										
10...	1135	23.0	150	948	384	62	72	83	88	91
11...	0700	21.0	40	603	65	81	92	96	99	99
11...	1055	21.5	40	294	32	--	--	--	--	--
11...	1750	21.5	40	68	7.3	--	--	--	--	--

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

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

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
NOV 14...	--	--	--	--	--	--	--	--	--
28...	98	--	98	--	100	--	--	--	--
DEC 06...	--	100	--	--	--	--	--	--	--
JAN 02...	--	100	--	--	--	--	--	--	--
FEB 06...	94	--	98	--	100	--	--	--	--
06...	96	--	99	--	100	--	--	--	--
06...	97	--	99	--	100	--	--	--	--
06...	97	--	99	--	100	--	--	--	--
06...	97	--	100	--	--	--	--	--	--
07...	94	--	98	--	99	--	100	--	--
07...	92	--	97	--	100	--	--	--	--
09...	84	--	95	--	100	--	--	--	--
09...	91	--	98	--	100	--	--	--	--
APR 01...	--	98	--	100	--	--	--	--	--
13...	--	62	--	86	--	97	--	100	--
JUL 22...	--	99	--	100	--	--	--	--	--
22...	--	100	--	--	--	--	--	--	--
SEP 10...	--	91	--	92	--	93	--	97	100
11...	--	99	--	100	--	--	--	--	--
11...	--	77	--	88	--	97	--	100	--
11...	--	98	--	100	--	--	--	--	--

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

DATE	TIME	NUMBER OF SAM-PLING POINTS	INSTAN-TANEOUS DIS-CHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	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
SEP 29...	1115	3	6.7	6	14	38	65	77	84	92	98	100

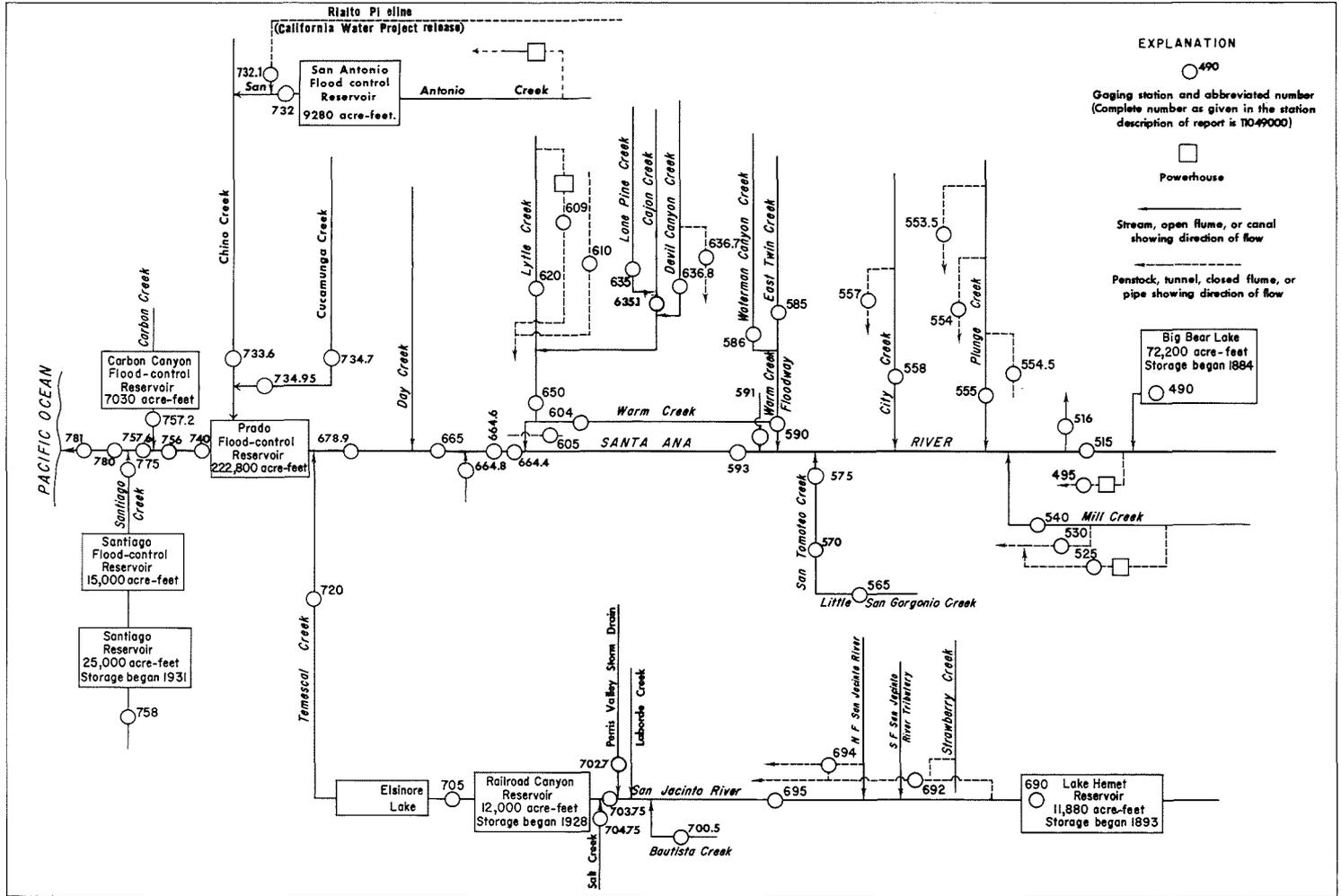


Figure 5.—Schematic diagram showing diversions and storage in Santa Ana River basin.

11049000 BIG BEAR LAKE NEAR BIG BEAR LAKE, CA

LOCATION.--Lat 34°14'33", long 116°58'33", in SW¼ sec.22, T.2 N., R.1 W., San Bernardino County, at Big Bear Lake Dam on Bear Creek, 4 mi (6 km) west of town of Big Bear Lake, and 7.5 mi (12.1 km) upstream from mouth.

DRAINAGE AREA.--72.2 mi² (187.0 km²), revised, including Baldwin Lake drainage.

PERIOD OF RECORD.--October 1950 to current year in reports of Geological Survey. February 1884 to September 1950 in files of Bear Valley Mutual Water Co.

GAGE.--Nonrecording gage. Datum of gage is 6,670.9 ft (2,033.290 m) above mean sea level (levels by Bear Valley Mutual Water Co.). Prior to 1912 at old dam 200 ft (61 m) upstream at same datum; spillway at gage height 52.4 ft (16.0 m).

REMARKS.--Lake is formed by multiple-arch concrete dam, completed in 1912, replacing existing lower dam built in 1884; storage began in spring of 1884. Capacity, 72,200 acre-ft (89.0 hm³) at elevation 6,743.2 ft (2,055.327 m), top of dam. Capacity table based on survey made in 1883. No dead storage. Water used for irrigation only. See schematic diagram of Santa Ana River basin.

COOPERATION.--Record of contents furnished by Bear Valley Mutual Water Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents unknown, lake spilled in 1916, 1917, 1922, 1923, 1938, 1939, 1969, 1970; lake dry October, November 1898, August to November 1899, October, November 1904.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 46,450 acre-ft (57.3 hm³) Oct. 1; minimum contents observed, 37,160 acre-ft (45.8 hm³) Aug. 31.

MONTHEND CONTENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	46450	--
Oct. 31.....	44660	-1790
Nov. 30.....	43660	-1000
Dec. 31.....	43660	0
CAL YR 1975.....	-	-10030
Jan. 31.....	42270	-1390
Feb. 28.....	42870	+600
Mar. 31.....	45260	+2390
Apr. 30.....	45460	+200
May 31.....	44260	-1200
June 30.....	41870	-2390
July 31.....	39610	-2260
Aug. 31.....	37160	-2450
Sept. 30.....	37690	+530
WTR YR 1976.....	--	-8760

11051500 SANTA ANA RIVER NEAR MENTONE, CA

LOCATION.--Lat 34°06'30", long 117°05'59", in NE¼SW¼SW¼ sec.4, T.1 S., R.2 W., San Bernardino County, on right bank at diversion near mouth of canyon, 1.6 mi (2.6 km) upstream from Mill Creek, and 3.2 mi (5.1 km) north-east of Mentone.

DRAINAGE AREA.--210 mi² (544 km²), revised, including area tributary to Baldwin Lake at head of Bear Valley.

PERIOD OF RECORD.--July 1896 to current year. Prior to October 1914, observed records not equivalent owing to Greenspot pipeline diversion between sites and exclusion of discharge from Warm Springs Canyon. Monthly discharge only for January 1910, January and February 1916 published in WSP 1315-B.

GAGE.--Three water-stage recorders. Main gage on right bank of river, canal gage on powerhouse diversion, and since 1970 supplementary gage on left bank of river. Altitude of main and supplementary gages is 1,950 ft (594 m), from topographic map. Prior to Sept. 2, 1917, nonrecording gages at several sites within 1.5 mi (2.4 km) upstream at various datums. Sept. 3, 1917, to May 27, 1969, water-stage recorder at site 0.2 mi (0.3 km) upstream at different datum. Canal gage at different datum.

REMARKS.--Records fair. Flow partly regulated by Big Bear Lake (station 11049000). For records of combined discharge of Santa Ana River and Southern California Edison Co.'s canal below powerplant No. 2, which diverts above station, see following page. Bear Valley Mutual Water Co. pumped 328 acre-ft (404,400 m³) into canal below canal gage. Prior to Oct. 1, 1952, and after Apr. 26, 1976, pumped water entered canal above gage. See schematic diagram of Santa Ana River basin.

COOPERATION.--Three discharge measurements on Southern California Edison Co.'s canal below powerplant No. 2 were furnished by that agency, in connection with a Federal Power Commission project.

AVERAGE DISCHARGE.--River only: 62 years (water years 1915-76), 32.2 ft³/s (0.912 m³/s), 23,330 acre-ft/yr (28.7 hm³/yr).

Combined river and canal: 80 years, 80.2 ft³/s (2.27 m³/s), 58,100 acre-ft/yr (71.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--River only: Maximum discharge, 52,300 ft³/s (1,480 m³/s) Mar. 2, 1938, gage height, 14.3 ft (4.359 m), site and datum then in use, on basis of slope-area measurement of maximum flow; no flow at times in some years.

Combined river and canal: Maximum discharge, 52,300 ft³/s (1,480 m³/s) Mar. 2, 1938; minimum daily, 7.4 ft³/s (0.21 m³/s) Sept. 21, 1971.

EXTREMES OUTSIDE PERIOD OF RECORD.--Combined river and canal: Flood of Feb. 23, 1891, 53,700 ft³/s (1,520 m³/s), from notes furnished by F. C. Finkle, consulting engineer, Los Angeles.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s (4.25 m³/s) and maximum (*), on basis of slope-area measurement of peak flow:

Date	Time	River Discharge		Gage height		Combined River and Diversion Discharge	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)	(ft ³ /s)	(m ³ /s)
Feb. 9	0100	785	22.2	4.44	1.353	889	25.2
Mar. 1	1600	544	15.4	3.86	1.177	547	15.5
Sept. 11	0500	*1380	39.1	6.15	1.875	*1380	39.1

Combined river and diversion: Minimum daily discharge, no flow many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	13		0	144	2.6	2.1	.08			0
2	0	0	.27		0	141	2.4	2.0	.07			0
3	0	0	0		0	92	2.4	2.6	.08			0
4	0	0	0		0	20	3.1	.49	.08			0
5	0	0	0		4.3	17	3.6	0	.08			0
6	0	0	0		12	14	2.9	0	.13			0
7	0	0	0		25	12	2.6	.58	.26			16
8	1.4	0	0		91	14	2.9	.02	.07			72
9	0	0	0		355	14	2.9	.09	.05			88
10	0	0	0		103	14	2.6	.03	.08			308
11	0	0	0		59	14	2.3	.03	.07			646
12	0	0	0		48	12	2.6	.03	.04			122
13	0	0	14		32	15	4.0	.06	.03			59
14	0	0	17		7.1	12	3.8	.12	.02			40
15	0	0	20		5.9	11	5.8	.12	.02			29
16	0	0	21		5.0	8.5	5.6	.12	0			24
17	0	0	16		4.0	7.9	4.0	.12	0			22
18	0	0	6.6		3.8	7.9	2.6	.10	0			18
19	0	0	9.3		3.8	7.6	2.3	.10	0			16
20	0	0	.43		3.8	6.6	2.2	.10	0			13
21	0	0	0		3.4	5.4	5.9	.10	0			6.8
22	0	0	0		3.2	5.2	2.8	.10	0			6.6
23	0	0	0		2.9	5.6	2.6	.10	0			6.3
24	0	0	0		2.6	5.0	2.4	.08	0			44
25	0	0	0		2.2	4.2	2.5	.08	0			35
26	0	0	0		2.2	4.0	2.5	.08	0			11
27	0	0	0		2.0	2.9	2.5	.08	0			9.3
28	0	0	0		2.0	2.8	2.5	.08	0			7.9
29	0	0	0		2.0	2.6	2.5	.06	0			5.0
30	0	7.2	0		---	2.6	2.5	.06	0			4.8
31	2.5	---	0		---	2.6	---	.06	---			---
TOTAL	3.9	7.2	117.60	0	785.2	627.4	91.9	9.69	1.16	0	0	1609.7
MEAN	.13	.24	3.79	0	35.1	20.2	3.06	.31	.039	0	0	53.7
MAX	2.5	7.2	21	0	275	144	5.9	2.6	.26	0	0	646
MIN	0	0	0	0	0	2.6	2.2	0	0	0	0	0
AC-FT	7.7	14	233	0	1560	1240	182	19	2.3	0	0	3190
CAL YR 1975	TOTAL	1890.63	MEAN 5.18	MAX 153	MIN 0	AC-FT 3750						
WTF YR 1976	TOTAL	3253.75	MEAN 8.89	MAX 646	MIN 0	AC-FT 6450						

SANTA ANA RIVER BASIN

11051500 SANTA ANA RIVER NEAR MENTONE, CA--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF SANTA ANA RIVER AND SOUTHERN CALIFORNIA EDISON CO.'S CANAL NEAR MENTONE, CA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	28	23	20	35	166	37	37	29	47	27	38
2	41	26	32	20	35	142	35	36	29	47	29	39
3	41	26	31	22	36	103	35	41	41	46	35	41
4	40	26	29	23	41	61	38	39	43	46	40	42
5	40	31	28	24	41	59	38	39	43	46	47	41
6	41	39	27	24	53	54	36	40	43	45	49	42
7	47	43	27	24	71	50	35	40	43	42	50	49
8	48	45	26	30	141	49	35	35	43	41	50	76
9	47	45	26	32	366	49	35	34	44	41	46	92
10	46	45	26	32	103	49	36	33	46	41	42	312
11	41	46	26	32	59	49	35	35	45	42	42	650
12	40	44	22	32	63	46	38	35	44	42	41	126
13	40	39	16	30	71	48	43	34	42	42	41	63
14	39	38	19	30	46	46	41	34	42	42	41	44
15	39	28	23	26	44	45	45	34	41	43	42	33
16	39	26	26	24	40	44	45	35	40	43	48	28
17	38	26	32	24	38	43	40	44	41	42	44	37
18	39	36	27	24	38	44	40	45	41	42	33	47
19	38	37	38	23	38	44	39	45	41	42	47	43
20	39	38	38	33	37	42	38	46	41	41	47	40
21	46	38	29	42	35	40	39	45	41	40	46	34
22	47	38	27	42	34	40	42	44	41	42	42	33
23	45	38	26	41	34	40	42	39	39	43	41	24
24	47	36	25	32	34	40	41	39	39	42	41	56
25	44	38	25	31	33	41	42	39	39	43	41	47
26	46	38	25	30	32	41	42	37	43	44	40	23
27	45	42	25	31	33	40	41	31	45	46	40	26
28	41	43	24	35	33	39	40	30	45	47	39	36
29	39	39	24	36	34	38	39	31	45	42	39	33
30	42	24	24	36	---	37	38	30	45	35	39	34
31	44	---	24	35	---	37	---	29	---	31	39	---
TOTAL	1311	1086	820	920	1698	1666	1170	1155	1244	1318	1288	2229
MEAN	42.3	36.2	26.5	29.7	58.6	53.7	39.0	37.3	41.5	42.5	41.5	74.3
MAX	48	46	38	42	366	166	45	46	46	47	50	650
MIN	38	24	16	20	32	37	35	29	29	31	27	23
AC-FT	2600	2150	1630	1820	3370	3300	2320	2290	2470	2610	2550	4420
CAL YR 1975	TOTAL	15860	MEAN	43.5	MAX	156	MIN	16	AC-FT	31460		
WTR YR 1976	TOTAL	15905	MEAN	43.5	MAX	650	MIN	16	AC-FT	31550		

11051600 SANTA ANA RIVER SPREADING DIVERSION NEAR MENTONE, CA

LOCATION.--Lat 34°06'12", long 117°06'37", in SW¼NW¼NE¼ sec.8, T.1 S., R.2 W., San Bernardino County, on diversion channel 0.8 mi (1.3 km) downstream from Southern California Edison Co.'s powerhouse No. 3, and 2.4 mi (3.9 km) northeast of Mentone.

PERIOD OF RECORD.--October 1951 to current year.

GAGE.--Water-stage recorder and Parshall flume control. Altitude of gage is 1,840 ft (561 m), from topographic map.

REMARKS.--Records good. Water is diverted from Santa Ana River at diversion dam 0.8 mi (1.3 km) upstream, for spreading on debris cone downstream from mouth of Santa Ana River Canyon. Diversion began prior to 1951.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 141 ft³/s (3.99 m³/s) Mar. 16, 1973; no flow for long periods in each year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0		0	50	11	0				0
2		0	0		0	63	7.0	0				0
3		0	2.8		0	59	7.1	0				0
4		0	4.7		3.7	53	7.9	0				0
5		0	4.7		9.7	50	8.1	0				0
6		0	2.2		29	40	7.4	0				0
7		0	0		45	35	7.3	0				0
8		0	0		40	34	3.5	0				3.8
9		0	0		79	33	.30	0				3.4
10		0	0		83	32	.30	0				.92
11		0	0		44	32	.26	0				0
12		0	0		31	31	3.6	0				49
13		0	0		24	30	8.7	0				46
14		0	0		18	30	8.0	0				30
15		0	0		16	29	9.5	2.4				24
16		0	0		18	29	18	2.5				22
17		0	.31		21	28	19	0				13
18		0	0		21	27	16	0				20
19		0	0		21	26	16	0				23
20		0	0		20	25	18	0				7.6
21		0	0		19	24	19	0				5.2
22		0	0		18	23	18	0				11
23		0	0		18	22	13	0				13
24		0	0		17	21	9.2	0				24
25		0	0		17	20	8.7	0				16
26		0	0		19	20	8.4	0				8.5
27		0	0		22	19	8.4	0				8.9
28		4.6	0		22	19	8.3	0				12
29		12	0		23	19	3.5	0				16
30		3.5	0		---	18	.18	0				9.2
31		---	0		---	17	---	0	---			---
TOTAL	0	20.1	14.71	0	698.4	958	273.64	4.9	0	0	0	366.52
MEAN	0	.67	.47	0	24.1	30.9	9.12	.16	0	0	0	12.2
MAX	0	12	4.7	0	83	63	19	2.5	0	0	0	49
MIN	0	0	0	0	0	17	.18	0	0	0	0	0
AC-FT	0	40	29	0	1390	1900	543	9.7	0	0	0	727
CAL YR 1975	TOTAL	3698.70	MEAN 10.1	MAX 71	MIN 0	AC-FT 7340						
WTR YR 1976	TOTAL	2336.27	MEAN 6.38	MAX 83	MIN 0	AC-FT 4630						

11054000 MILL CREEK NEAR YUCAIPA, CA

LOCATION.--Lat 34°05'27", long 117°02'12", in NW¼NE¼NE¼ sec.13, T.1 S., R.2 W., San Bernardino County, on left bank 50 ft (15 m) downstream from bridge on State Highway 38 (revised), 3.9 mi (6.3 km) north of Yucaipa, and 5.3 mi (8.5 km) upstream from mouth.

DRAINAGE AREA.--42.4 mi² (110 km²).

PERIOD OF RECORD.--January 1919 to September 1938, October 1947 to current year. Monthly figures only for April and May 1923, published in WSP 1315-B. Prior to October 1954, published as "near Craftonville."

GAGE.--Water-stage recorder on creek; water-stage recorder and sharp-crested weir on power canal No. 1; water-stage recorder and Parshall flume on power canals Nos. 2 and 3. Datum of creek gage is 2,916.36 ft (888.907 m) above mean sea level (Southern California Edison Co. bench mark). Canals are all at different datums. See WSP 1735 for history of changes prior to Mar. 2, 1938.

REMARKS.--Records poor. No regulation above station. Mill Creek power canals Nos. 1, 2, and 3 divert from points 100 ft (30 m), 3 mi (5 km), and 6 mi (10 km) above station, respectively. Combined flow of Mill Creek and Mill Creek power canals Nos. 1, 2, and 3 is given on following page. See schematic diagram of Santa Ana River basin.

COOPERATION.--Water-stage recorder graph and three discharge measurements for Mill Creek power canals Nos. 2 and 3 furnished by Southern California Edison Co., in connection with a Federal Power Commission project.

AVERAGE DISCHARGE.--Creek only: 48 years (water years 1920-38, 1948-76), 12.8 ft³/s (0.362 m³/s), 9,270 acre-ft/yr (11.4 hm³/yr).
Combined creek and canals: 48 years, 33.5 ft³/s (0.949 m³/s), 24,270 acre-ft/yr (29.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Creek only: Maximum discharge, 35,400 ft³/s (1,000 m³/s) Jan. 25, 1969, gage height, 16.8 ft (5.121 m), from floodmark, from rating curve extended above 1,100 ft³/s (31.2 m³/s) on basis of two field estimates at gage height 14.5 ft (4.420 m) and slope-area measurement of maximum flow; no flow at times in some years.

Combined creek and canals: Maximum discharge, 35,400 ft³/s (1,000 m³/s) Jan. 25, 1969; minimum daily, 2.7 ft³/s (0.077 m³/s) Feb. 23, 1949.

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

Date	Time	Creek Discharge		Gage height		Combined Creek and Canals Discharge	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)	(ft ³ /s)	(m ³ /s)
Feb. 8	2200	356	10.1	8.91	2.716	356	10.1
Mar. 1	1700	156	4.42	8.46	2.579	157	4.45
Sept. 11	0600	*5000	142.0	10.95	3.338	*5000	142.0

Creek only: Minimum daily discharge, no flow Oct. 8-19.

Combined creek and canals: Minimum daily discharge, 7.3 ft³/s (0.21 m³/s) Sept. 26.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.04	.47	.17	.40	28	.33	.07	.09	.08	.10	.13
2	.05	.04	.34	.17	.47	15	.33	.07	.09	.08	.10	.13
3	.10	.04	.29	.17	.40	12	.37	.07	.09	.08	.10	.13
4	.10	.04	.29	.20	.74	6.2	.33	.07	.08	.08	.10	.13
5	.10	.01	.29	.20	1.3	4.2	.30	.07	.08	.08	.10	.13
6	.10	.01	.29	.20	1.7	4.2	.39	.08	.09	.08	.10	.17
7	.05	.02	.29	.17	2.5	4.4	.27	.08	.10	.08	.10	13
8	0	.04	.62	.17	92	4.2	.30	.08	.10	.08	.10	12
9	0	.05	.74	.17	68	4.2	.15	.08	.10	.08	.10	.33
10	0	.05	1.2	.14	9.8	4.4	.08	.08	.11	.08	.10	461
11	0	.09	2.6	.14	1.8	4.4	.10	.08	.11	.08	.10	793
12	0	.09	1.4	.14	.20	3.9	.11	.07	.10	.08	.10	9.5
13	0	.11	.36	.14	.20	3.7	.10	.07	.10	.08	.10	7.6
14	0	.11	.07	.14	.20	3.7	.08	.07	.10	.07	.10	6.4
15	0	.14	.07	.11	1.5	3.7	.09	.07	.10	.07	.10	6.0
16	0	.14	.07	.11	2.5	3.4	.08	.08	.10	.07	.10	5.7
17	0	.17	.07	.14	2.7	2.5	.08	.08	.09	.07	6.1	4.2
18	0	.17	.05	.17	1.9	1.8	.08	.08	.08	.06	4.2	3.9
19	0	.20	.05	.17	1.9	1.4	.08	.09	.08	.06	1.6	3.9
20	.01	.24	.07	.20	.98	.98	.08	.09	.07	.06	.90	3.9
21	.01	.24	.09	.24	.20	.84	.07	.09	.07	.06	.50	3.7
22	.02	.24	.09	.24	.20	.70	.07	.09	.07	.06	.20	3.0
23	.02	.24	.09	.24	.20	.50	.07	.09	.07	.06	.10	3.0
24	.03	.24	.09	.24	.20	.30	.07	.09	.07	.06	.10	3.2
25	.03	.29	.09	.24	.20	.30	.07	.09	.07	.06	.10	3.2
26	.04	.14	.09	.24	.62	.30	.07	.09	.07	2.0	.10	3.0
27	.05	.24	.09	.24	1.5	.30	.07	.09	.07	9.8	3.6	3.0
28	.06	1.9	.11	.24	.85	.30	.07	.09	.08	7.5	2.2	2.8
29	.08	.99	.14	.24	.20	.30	.07	.10	.08	3.5	1.0	2.6
30	.75	.47	.14	.29	---	.33	.07	.10	.08	.10	.50	2.4
31	.43	---	.17	.34	---	.33	---	.10	---	.10	.13	---
TOTAL	2.08	6.79	10.82	6.01	195.36	120.78	4.43	2.55	2.59	24.80	22.93	1361.15
MEAN	.067	.23	.35	.19	6.74	3.90	.15	.082	.086	.80	.74	45.4
MAX	.75	1.9	2.6	.34	92	28	.39	.10	.11	9.8	6.1	793
MIN	0	.01	.05	.11	.20	.30	.07	.07	.07	.06	.10	.13
AC-FT	4.1	13	21	12	387	240	8.8	5.1	5.1	49	45	2700
CAL YR 1975 TOTAL	248.95			MEAN .68	MAX 24	MIN 0	AC-FT 494					
WTR YR 1976 TOTAL	1760.29			MEAN 4.81	MAX 793	MIN 0	AC-FT 3490					

SANTA ANA RIVER BASIN

11054000 MILL CREEK NEAR YUCAIPA, CA--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF MILL CREEK AND MILL CREEK POWER CANALS NOS. 1, 2, AND 3 NEAR YUCAIPA, CA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	12	15	14	15	38	18	21	20	17	16	15
2	16	13	17	14	15	24	18	21	19	18	16	15
3	16	13	15	14	15	22	18	21	19	18	16	15
4	16	14	12	14	17	18	18	20	19	17	16	15
5	16	14	12	14	15	18	18	20	19	17	16	15
6	16	14	11	14	14	16	17	20	21	17	15	15
7	16	14	11	13	16	15	17	21	20	17	15	25
8	16	14	13	13	101	16	18	19	21	16	15	22
9	16	15	13	13	68	15	17	19	21	16	15	15
10	16	14	13	13	15	14	17	20	22	16	14	474
11	17	15	16	14	16	15	17	21	21	16	14	797
12	17	14	14	14	15	15	18	22	20	16	14	14
13	17	14	13	14	14	16	19	23	20	17	14	12
14	17	14	14	14	13	17	18	25	20	16	15	11
15	16	14	13	14	15	20	19	25	20	16	15	10
16	16	14	13	14	15	19	19	24	19	17	15	10
17	16	14	13	14	15	21	18	24	17	16	21	12
18	16	14	12	14	15	22	18	23	19	16	19	16
19	16	13	13	14	16	20	18	23	19	16	17	17
20	16	14	14	14	15	20	19	23	19	15	16	17
21	16	14	14	14	15	19	20	23	19	15	17	17
22	15	14	14	14	15	19	22	23	19	16	15	18
23	15	13	12	13	15	18	21	22	19	16	15	17
24	14	13	12	13	15	16	20	22	19	16	15	15
25	14	13	12	13	14	17	21	22	18	16	15	7.6
26	14	14	12	14	14	18	21	21	18	17	15	7.3
27	14	15	12	13	14	17	21	21	15	18	18	13
28	14	15	12	13	15	17	19	21	15	15	16	19
29	14	14	12	13	14	16	21	21	16	16	16	18
30	16	15	13	14	---	17	20	21	17	17	16	21
31	12	---	14	15	---	18	---	20	---	17	15	---
TOTAL	482	417	406	425	571	573	565	672	570	509	487	1694.9
MEAN	15.5	13.9	13.1	13.7	19.7	18.5	18.8	21.7	19.0	16.4	15.7	56.5
MAX	17	15	17	15	101	38	22	25	22	18	21	797
MIN	12	12	11	13	13	14	17	19	15	15	14	7.3
AC-FT	956	827	805	843	1130	1140	1120	1330	1130	1010	966	3360
CAL YR 1975 TOTAL	7024.0			MEAN 19.2	MAX 42	MIN 11	AC-FT 13930					
WTR YR 1976 TOTAL	7371.9			MEAN 20.1	MAX 797	MIN 7.3	AC-FT 14620					

11055500 PLUNGE CREEK NEAR EAST HIGHLANDS, CA

LOCATION.--Lat 34°07'06", long 117°08'27", in SW¼NE¼NE¼ sec.1, T.1 S., R.3 W., San Bernardino County, on left bank at mouth of canyon at crossing of North Fork ditch siphon, 1.8 mi (2.9 km) northeast of East Highlands.

DRAINAGE AREA.--16.9 mi² (43.8 km²).

PERIOD OF RECORD.--January 1919 to current year; combined records of creek and diversions, March 1951 to current year.

GAGE.--Water-stage recorder on creek. Since March 1951 water-stage recorder and weir on upper diversion, water-stage recorder and concrete-lined canal on middle diversion, crest-stage gage and sharp-crested weir on lower diversion. Altitude of creek gage is 1,590 ft (485 m), from topographic map. Prior to Oct. 1, 1969, creek gage at datum 4.00 ft (1.219 m) higher. Diversions are all at different datums.

REMARKS.--Records good. No regulation above station. Diversion from Alder Creek to Upper Plunge Creek area was active 1904-67. Diversions for irrigation are made at sites 0.5 mi (0.8 km), 1.0 mi (1.6 km), and 2.5 mi (4.0 km) above station. Water has been diverted above station for irrigation during entire period of record. Combined discharge of Plunge Creek and upper, middle, and lower diversions is given on following page. No flow in lower diversion since May 29, 1966. See schematic diagram of Santa Ana River basin.

AVERAGE DISCHARGE.--Creek only: 57 years, 6.06 ft³/s (0.172 m³/s), 4,390 acre-ft/yr (5.41 hm³/yr).
Combined creek and diversions: 25 years, 7.42 ft³/s (0.210 m³/s), 5,380 acre-ft/yr (6.63 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Creek only: Maximum discharge, 5,340 ft³/s (151 m³/s) Mar. 2, 1938, on basis of slope-area measurement of maximum flow; no flow for part of most years.
Combined creek and diversions: Maximum discharge, 4,770 ft³/s (135 m³/s) Dec. 6, 1966; no flow Nov. 12, 1964, Sept. 29, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 130 ft³/s (3.68 m³/s) and maximum(*):

Date	Time	Creek Discharge		Gage height		Combined Creek and Diversions Discharge	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)	(ft ³ /s)	(m ³ /s)
Feb. 8	2400	228	6.46	3.45	1.052	228	6.46
Mar. 1	1700	*395	11.2	4.05	1.234	395	11.2
Sept. 11	0400	258	7.31	3.57	1.088	258	7.31

Creek only: Minimum daily discharge, no flow many days.

Combined creek and diversions: Minimum daily discharge, 0.46 ft³/s (0.013 m³/s) Aug. 31.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	.62	1.2	2.0	.88	74	2.9	1.3	.01	0	0	0
2	.02	.47	1.9	2.0	.88	30	2.5	1.3	.01	0	0	0
3	0	.39	1.9	1.7	.88	24	2.8	1.3	.01	0	.01	0
4	0	.24	1.9	1.4	2.2	17	4.0	1.8	.01	0	.02	0
5	0	.21	1.9	1.4	5.3	16	3.7	1.8	.01	0	.03	0
6	0	.21	1.9	1.4	7.0	14	2.8	1.7	.01	0	.03	0
7	.30	.24	1.8	1.2	19	13	3.4	2.1	.04	0	.03	0
8	.47	.24	1.8	1.2	43	12	3.4	1.7	.18	0	.03	0
9	.35	.31	1.8	1.2	115	9.8	3.7	1.4	.18	0	.03	0
10	.39	.31	1.7	1.2	35	10	3.4	1.4	.24	0	.03	28
11	.35	.35	1.7	1.1	14	9.8	3.2	1.3	.12	0	.21	74
12	.30	.35	2.6	1.0	9.8	8.3	3.9	1.1	.05	0	.29	4.5
13	.28	.27	2.8	1.0	7.7	7.4	6.0	.47	.04	0	0	2.4
14	.26	.24	2.1	1.0	5.7	6.9	4.1	.24	.03	0	0	1.7
15	.24	.24	1.8	1.0	4.9	6.9	10	.08	.02	0	0	1.7
16	.22	.24	1.5	1.0	4.1	6.9	9.0	.03	.02	0	.03	1.6
17	.21	.27	1.1	1.0	3.9	6.4	7.5	.03	.02	0	.03	1.5
18	.24	.35	1.1	1.0	4.1	6.4	7.0	.02	.02	0	.02	1.4
19	.39	.43	1.0	1.0	4.1	6.7	6.6	.02	.02	0	.02	1.5
20	.39	.47	1.0	.95	3.4	6.2	6.5	.03	.02	0	.02	1.6
21	.39	.47	1.0	.95	2.9	5.7	6.4	.02	.01	0	.02	1.6
22	.43	.47	1.0	.95	2.8	5.7	6.2	.02	0	0	.01	1.7
23	.47	.47	1.4	.95	2.6	5.3	6.2	.01	0	0	.01	2.5
24	.39	.52	2.1	.95	2.4	5.3	6.0	.02	0	0	.01	4.3
25	.39	.52	2.1	.95	2.4	5.3	5.3	.02	0	0	.01	2.0
26	.39	.35	2.1	.95	2.2	5.7	5.7	.02	0	0	0	1.5
27	.39	.68	2.1	.95	2.1	5.7	4.9	.01	0	0	0	1.4
28	.52	2.0	2.0	.88	2.1	5.1	3.7	.01	0	0	0	1.3
29	.81	1.6	2.0	.88	2.1	2.9	3.4	.01	0	0	0	1.3
30	.81	1.1	2.0	.88	---	2.2	1.0	.02	0	0	0	1.3
31	1.7	---	2.0	.88	---	3.2	---	.02	---	.01	0	---
TOTAL	11.16	14.63	54.3	34.92	312.44	343.8	145.2	19.30	1.07	.01	.89	138.8
MEAN	.36	.49	1.75	1.13	10.8	11.1	4.84	.62	.036	.0003	.029	4.63
MAX	1.7	2.0	2.8	2.0	115	74	10	2.1	.24	.01	.29	74
MIN	0	.21	1.0	.88	.88	2.2	1.0	.01	0	0	0	0
AC-FT	22	29	108	69	620	682	288	38	2.1	.02	1.8	275
CAL YR 1975	TOTAL	1105.43	MEAN 3.03	MAX 76	MIN 0	AC-FT 2190						
WTR YR 1976	TOTAL	1076.52	MEAN 2.94	MAX 115	MIN 0	AC-FT 2140						

SANTA ANA RIVER BASIN

11055500 PLUNGE CREEK NEAR EAST HIGHLANDS, CA--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF PLUNGE CREEK AND
DIVERSTIONS NEAR EAST HIGHLANDS, CA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.73	1.3	1.6	2.7	1.6	74	5.7	4.3	1.9	.75	.63	.47
2	.66	1.2	1.9	2.8	1.6	30	5.2	4.2	1.9	.83	.65	.50
3	.62	1.1	1.9	2.5	1.6	24	5.5	4.3	1.9	.86	.65	.63
4	.62	1.0	1.9	2.3	3.1	17	6.7	4.4	1.7	.78	.63	.61
5	.62	1.0	1.9	2.1	5.4	16	6.4	4.3	1.7	.72	.60	.58
6	.66	1.1	1.9	2.2	7.0	14	5.7	4.0	1.7	.67	.57	.61
7	1.0	1.1	1.8	2.0	19	13	6.2	4.4	1.5	.65	.54	.64
8	1.2	1.1	1.8	2.0	43	12	6.0	3.6	1.6	.62	.53	.58
9	1.0	1.1	1.8	2.0	115	9.8	6.3	3.0	1.7	.65	.50	.65
10	1.1	1.1	1.7	1.9	35	10	6.0	3.0	2.0	.65	.53	29
11	1.0	1.2	1.7	1.9	14	9.8	5.8	3.2	2.1	.70	.77	74
12	1.0	1.2	2.6	1.8	9.8	8.3	6.8	2.7	1.9	.72	.84	4.5
13	.98	1.1	3.0	1.8	7.7	7.4	9.1	2.6	1.7	.75	.57	2.4
14	.95	1.1	2.4	1.8	5.7	6.9	6.9	2.7	1.5	.72	.63	1.7
15	.91	1.1	2.1	1.8	4.9	6.9	13	2.5	1.4	.81	.69	1.7
16	.88	1.1	2.2	1.8	4.1	6.9	9.2	2.4	1.3	.83	.69	1.6
17	.86	1.1	2.0	1.8	3.9	6.4	7.5	2.3	1.1	.75	.67	1.5
18	.89	1.2	2.0	1.8	4.1	6.4	7.0	2.2	.99	.72	.64	1.4
19	1.0	1.2	1.8	1.8	4.1	6.7	6.6	2.3	.88	.67	.66	1.5
20	1.0	1.3	1.8	1.8	3.4	6.2	6.5	2.3	.83	.65	.71	1.6
21	1.0	1.2	1.9	1.8	2.9	5.7	6.4	2.3	.78	.62	.68	1.6
22	1.1	1.2	1.9	1.8	2.8	5.7	6.2	2.3	.78	.72	.64	1.7
23	1.1	1.2	2.2	1.8	2.6	5.3	6.2	2.2	.77	.67	.60	2.5
24	1.1	1.2	2.8	1.8	2.4	5.3	6.0	2.3	.76	.62	.60	4.3
25	1.1	1.2	2.9	1.7	2.4	5.3	5.3	2.4	.71	.69	.62	2.0
26	1.1	1.1	2.9	1.7	2.2	6.3	5.7	2.2	.75	.75	.62	1.5
27	1.1	1.5	2.9	1.7	2.1	8.0	4.9	2.0	.76	.72	.52	1.4
28	1.7	2.8	2.7	1.7	2.1	8.5	4.3	2.0	.75	.73	.50	1.6
29	3.5	2.4	2.7	1.7	2.1	6.1	5.7	2.3	.75	.68	.49	1.7
30	2.3	1.9	2.7	1.6	---	5.4	4.2	2.3	.72	.71	.47	1.6
31	2.4	---	2.7	1.6	---	6.2	---	2.2	---	.67	.46	---
TOTAL	35.18	38.4	68.1	59.5	315.6	359.5	193.0	89.2	38.83	22.08	18.90	146.07
MEAN	1.13	1.28	2.20	1.92	10.9	11.6	6.43	2.88	1.29	.71	.61	4.87
MAX	3.5	2.8	3.0	2.8	115	74	13	4.4	2.1	.86	.84	74
MIN	.62	1.0	1.6	1.6	1.6	5.3	4.2	2.0	.71	.62	.46	.47
AC-FT	70	76	135	118	626	713	383	177	77	44	37	290
CAL YR 1975	TOTAL	1446.60	MEAN 3.96	MAX 76	MIN .62	AC-FT 2870						
WTR YR 1976	TOTAL	1384.36	MEAN 3.78	MAX 115	MIN .46	AC-FT 2750						

11055800 CITY CREEK NEAR HIGHLAND, CA

LOCATION.--Lat 34°08'38", long 117°11'16", in SE¼SW¼NW¼ sec.27, T.1 N., R.3 W., San Bernardino County, on right bank 0.6 mi (1.0 km) upstream from Highland Avenue, and 1.5 mi (2.4 km) northeast of Highland.

DRAINAGE AREA.--19.6 mi² (50.8 km²).

PERIOD OF RECORD.--October 1919 to current year; combined records of creek and canal, June 1924 to current year.

GAGE.--Water-stage recorder on creek; water-stage recorder on canal. Altitude of creek gage is 1,580 ft (482 m), from topographic map. Prior to Mar. 1, 1939, at site 0.2 mi (0.3 km) downstream at different datum. Canal gage at different datum.

REMARKS.--Records fair. No regulation above station. City Creek Water Co.'s canal has diverted from point 0.5 mi (0.8 km) above station for irrigation throughout period of record. See schematic diagram of Santa Ana River basin. Combined discharge of City Creek and canal is given on following page.

AVERAGE DISCHARGE.--Creek only: 57 years, 8.56 ft³/s (0.242 m³/s), 6,200 acre-ft/yr (7.64 hm³/yr).
Combined creek and canal: 52 years, 10.2 ft³/s (0.289 m³/s), 7,390 acre-ft/yr (9.11 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Creek only: Maximum discharge, 7,000 ft³/s (198 m³/s) Feb. 25, 1969, gage height, 9.39 ft (2.862 m), from rating curve extended above 580 ft³/s (16.4 m³/s) on basis of slope-area measurement at gage height 8.83 ft (2.691 m); no flow for several months in some years.
Combined creek and canal: Maximum discharge, 7,000 ft³/s (198 m³/s) Feb. 25, 1969; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Creek only: Maximum discharge, 326 ft³/s (9.23 m³/s) Sept. 11 (0330 hrs), gage height, 5.64 ft (1.719 m), on basis of slope-area measurement of peak flow, no other peak above base of 150 ft³/s (4.25 m³/s); minimum daily, 0.06 ft³/s (0.002 m³/s) Aug. 29 to Sept. 2, Sept. 4, 5.
Combined creek and canal: Maximum discharge, 326 ft³/s (9.23 m³/s) Sept. 11 (0330 hrs), no other peak above base of 150 ft³/s (4.25 m³/s); minimum daily, 0.11 ft³/s (0.003 m³/s) July 9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	1.3	.38	2.4	.40	33	2.6	1.8	1.1	.08	.14	.06
2	.12	1.2	.92	2.5	.40	18	1.9	1.8	.95	.12	.13	.06
3	.11	.75	.77	3.0	.40	18	.89	1.8	1.0	.17	.14	.08
4	.10	.34	.54	3.6	1.0	11	1.5	1.8	1.2	.15	.15	.06
5	.08	.30	.43	3.1	2.8	10	1.3	1.8	1.2	.12	.12	.06
6	.09	.32	.38	1.0	16	9.6	2.3	1.8	1.2	.10	.11	.07
7	.37	.31	.34	.49	22	9.2	2.7	2.2	1.4	.08	.10	.08
8	.72	.33	.32	.47	22	8.9	2.8	1.8	1.2	.08	.09	.11
9	.67	.30	.34	.48	38	8.5	1.6	1.6	1.3	.07	.08	.15
10	.41	.29	.36	.49	29	8.2	.75	1.5	1.9	.09	.08	14
11	.26	.27	.37	.49	19	8.5	.76	1.4	1.8	.09	.09	91
12	.25	.24	3.1	.50	14	8.2	1.0	1.3	1.5	.11	.09	9.2
13	.21	.22	4.3	.52	11	7.5	7.2	1.2	1.2	.12	.09	4.9
14	.16	.20	3.2	.46	9.4	6.9	6.1	1.2	1.0	.11	.09	3.6
15	.14	.20	2.5	.72	8.1	6.7	14	1.3	.84	.13	.11	3.4
16	.11	.21	2.3	.24	7.3	6.5	14	1.3	.79	.19	.16	3.1
17	.11	.26	2.2	.21	6.6	6.3	9.4	1.3	.84	.19	.12	2.6
18	.13	.29	2.2	.22	6.0	6.0	7.8	1.3	.63	.15	.11	2.5
19	.15	.28	2.1	.21	5.8	6.0	7.3	1.3	.27	.13	.11	2.6
20	.15	.27	2.3	.20	5.6	5.4	6.3	1.4	.22	.11	.11	2.5
21	.18	.26	2.6	.21	5.2	5.4	6.3	1.3	.20	.09	.10	2.5
22	.24	.25	2.3	.21	4.8	5.5	6.8	1.3	.19	.11	.09	2.3
23	.22	.23	2.4	.21	4.4	5.3	6.8	1.3	.15	.16	.09	2.6
24	.16	.24	2.4	.23	4.3	5.3	4.7	1.4	.11	.11	.08	3.3
25	.16	.26	2.3	.23	4.3	5.4	2.8	1.6	.09	.12	.08	4.0
26	.16	.28	2.2	.61	4.2	5.0	2.8	1.5	.09	.18	.07	3.6
27	.20	.63	2.2	1.1	4.0	3.7	2.2	1.3	.08	.17	.07	3.2
28	.24	2.3	2.2	.23	3.8	3.0	1.8	1.5	.07	.15	.07	3.0
29	.22	.84	2.2	.58	3.8	2.9	1.8	1.4	.07	.15	.06	3.1
30	1.0	.49	2.2	.12	---	2.7	1.6	1.4	.08	.14	.06	3.2
31	2.3	---	2.3	.14	---	2.6	---	1.3	---	.16	.06	---
TOTAL	9.55	13.66	54.65	25.17	263.60	249.2	129.80	46.2	22.67	3.93	3.05	170.93
MEAN	.31	.46	1.76	.81	9.09	8.04	4.33	1.49	.76	.13	.098	5.70
MAX	2.3	2.3	4.3	3.6	38	33	14	2.2	1.9	.19	.16	91
MIN	.08	.20	.32	.12	.40	2.6	.75	1.2	.07	.07	.06	.06
AC-FT	19	27	108	50	523	494	257	92	45	7.8	6.0	339
CAL YR 1975	TOTAL	1234.28	MEAN	3.38	MAX	43	MIN	.03	AC-FT	2450		
WTR YR 1976	TOTAL	992.41	MEAN	2.71	MAX	91	MIN	.06	AC-FT	1970		

SANTA ANA RIVER BASIN

11055800 CITY CREEK NEAR HIGHLAND, CA--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF CITY CREEK AND CITY CREEK WATER CO.'S CANAL NEAR HIGHLAND, CA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.52	1.3	3.1	2.4	1.6	33	2.6	3.1	1.9	.20	.37	.14
2	.43	1.2	3.8	2.5	1.6	18	2.5	3.0	1.6	.34	.37	.14
3	.37	1.1	3.6	3.0	1.6	18	2.5	3.1	1.7	.46	.41	.25
4	.31	.99	3.2	3.6	1.6	11	4.5	3.2	1.8	.39	.46	.25
5	.28		3.1	3.5	2.8	10	3.9	3.3	1.9	.26	.35	.23
6	.36	1.1	2.9	2.5	16	9.6	3.1	3.4	1.8	.18	.31	.26
7	.84	1.1	2.6	2.3	22	9.2	2.7	4.3	1.8	.14	.25	.30
8	1.0	1.2	2.4	2.2	22	8.9	2.8	3.4	1.7	.13	.21	.33
9	.90	1.2	2.4	2.2	38	8.5	2.3	2.9	2.0	.11	.19	.41
10	1.0	1.2	2.5	2.2	29	8.2	1.9	2.7	3.0	.14	.17	14
11	1.5	1.2	2.6	2.2	19	8.5	1.9	2.4	2.9	.17	.17	91
12	1.6	1.1	4.5	2.2	14	8.2	2.5	2.2	2.4	.23	.16	9.2
13	1.4	1.1	4.3	2.2	11	7.5	8.1	2.0	1.9	.29	.16	4.9
14	1.1	1.1	3.2	2.2	9.4	6.9	6.1	2.0	1.5	.33	.21	3.6
15	.94	1.1	2.5	2.2	8.1	6.7	14	2.1	1.3	.39	.31	3.4
16	.85	1.2	2.3	1.9	7.3	6.5	14	2.1	1.2	.53	.44	3.1
17	.80	1.3	2.2	1.9	6.6	6.3	9.4	2.1	1.2	.53	.36	2.6
18	.88	1.5	2.2	1.9	6.0	6.0	7.8	2.0	1.2	.41	.35	2.5
19	1.0	1.5	2.1	1.8	5.8	6.0	7.3	2.1	.92	.37	.36	2.6
20	.99	1.5	2.3	1.8	5.6	5.4	6.3	2.2	.85	.30	.37	2.5
21	1.2	1.5	2.6	1.8	5.2	5.4	6.3	2.1	.80	.23	.34	2.5
22	1.3	1.5	2.3	1.8	4.8	5.5	6.8	2.2	.77	.30	.29	2.3
23	1.2	1.3	2.4	1.8	4.4	5.3	6.8	2.1	.64	.42	.26	2.6
24	1.0	1.2	2.4	1.9	4.3	5.3	5.4	2.3	.45	.28	.23	3.3
25	1.0	1.4	2.3	1.9	4.3	5.4	4.7	2.5	.38	.30	.21	4.0
26	1.0	1.4	2.2	1.8	4.2	5.0	4.4	2.3	.35	.49	.19	3.6
27	1.1	2.3	2.2	1.9	4.0	3.7	3.9	2.0	.27	.51	.19	3.2
28	1.2	4.5	2.2	1.6	3.8	3.0	3.5	2.3	.21	.46	.17	3.0
29	1.2	3.7	2.2	1.8	3.8	2.9	3.4	2.4	.17	.46	.14	3.1
30	1.6	3.1	2.2	1.7	---	2.7	3.0	2.5	.18	.42	.12	3.2
31	2.3	---	2.3	1.6	---	2.6	---	2.2	---	.47	.13	---
TOTAL	31.17	45.88	83.1	66.3	267.8	249.2	154.4	78.5	38.79	10.24	8.25	172.51
MEAN	1.01	1.53	2.68	2.14	9.23	8.04	5.15	2.53	1.29	.33	.27	5.75
MAX	2.3	4.5	4.5	3.6	38	33	14	4.3	3.0	.53	.46	91
MIN	.28	.99	2.1	1.6	1.6	2.6	1.9	2.0	.17	.11	.12	.14
AC-FT	62	91	165	132	531	494	306	156	77	20	16	342
CAL YR 1975	TOTAL	1492.93	MEAN	4.09	MAX	43	MIN	.21	AC-FT	2960		
WTR YR 1976	TOTAL	1206.14	MEAN	3.30	MAX	91	MIN	.11	AC-FT	2390		

11056500 LITTLE SAN GORGONIO CREEK NEAR BEAUMONT, CA

LOCATION.--Lat 34°01'45", long 116°56'43", in NW¼SW¼NW¼ sec.1, T.2 S., R.1 W., San Bernardino County, on right bank at upstream side of bridge on Oak Glen Road, 3.0 mi (4.8 km) upstream from Wallace Creek, and 7 mi (11 km) north of Beaumont.

DRAINAGE AREA.-1.74 mi² (4.51 km²), revised.

PERIOD OF RECORD.--October 1948 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,320 ft (1,317 m), from topographic map. Prior to July 30, 1970, at site 42 ft (13 m) downstream on left bank at same datum.

REMARKS.--Records poor. No regulation above station. Several small diversions above station for irrigation. See schematic diagram of Santa Ana River basin.

AVERAGE DISCHARGE.--28 years, 0.44 ft³/s (0.013 m³/s), 319 acre-ft/yr (393,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,000 ft³/s (312 m³/s) Feb. 25, 1969, gage height, 8.50 ft (2.591 m), from floodmarks, from rating curve extended above 32 ft³/s (0.91 m³/s) on basis of slope-area measurements at gage heights 2.18 ft (0.655 m), 3.45 ft (1.052 m), and 8.50 ft (2.591 m); no flow for several months in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 10 ft³/s (0.28 m³/s) and maximum (*), on basis of slope-area measurement made at 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)	
Feb. 9	1400	44	1.25	4.07	1.241	Sept. 10	2330	*427	12.1	5.30	1.615
Mar. 1	1600	20	0.57	3.87	1.180						

Minimum daily discharge, no flow several months.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	2.9	.01	.01	0			0
2					0	.58	.01	.01	0			0
3					0	.32	.01	.01	0			0
4					0	.34	.01	.02	.01			0
5					.01	.10	.01	.03	0			0
6					.64	.06	.01	.03	0			0
7					.93	.06	.01	.06	0			0
8					5.2	.06	.01	.03	0			0
9					21	.06	.01	.02	0			0
10					.64	.06	.01	.02	.01			.23
11					.04	.04	.01	.01	.01			13
12					0	.04	.04	.01	0			1.7
13					0	.02	.04	.01	0			.08
14					0	.02	.20	0	0			.04
15					0	.01	.40	0	0			.02
16					0	.01	.10	.01	0			.03
17					0	.01	.06	.01	0			.02
18					.02	.01	.03	0	0			.02
19					0	.01	.02	0	0			.01
20					0	.01	.02	.01	0			.01
21					0	.01	.02	.01	0			.01
22					.01	.01	.02	.01	0			.01
23					.03	.01	.01	.01	0			.01
24					.05	.01	.01	.01	0			.03
25					.04	.01	.01	0	0			.04
26					.02	.01	.01	0	0			.03
27					.01	.01	.01	0	0			.03
28					.02	.01	.01	0	0			.02
29					.01	.01	.01	.01	0			.02
30					---	.01	.01	.01	0			.02
31		---			---	.01	---	0	---			---
TOTAL	0	0	0	0	28.67	4.83	1.14	.36	.03	0	0	38.15
MEAN	0	0	0	0	.99	.16	.038	.012	.001	0	0	1.27
MAX	0	0	0	0	21	2.9	.40	.06	.01	0	0	23
MIN	0	0	0	0	0	.01	.01	0	0	0	0	0
AC-FT	0	0	0	0	57	9.6	2.3	.7	.06	0	0	76
CAL YR 1975	TOTAL 21.76	MEAN .060	MAX	.61	MIN 0	AC-FT 43						
WTR YR 1976	TOTAL 73.18	MEAN .20	MAX	23	MIN 0	AC-FT 145						

SANTA ANA RIVER BASIN

11057000 SAN TIMOTEO CREEK NEAR REDLANDS, CA

LOCATION.--Lat 34°01'58", long 117°12'28", in NE¼NE¼NE¼ sec.5, T.2 S., R.3 W., San Bernardino County, on upstream side of left end of bridge on San Timoteo Canyon Road (revised), 2.0 mi (3.2 km) southwest of Redlands, and 3.4 mi (5.5 km) downstream from Yucaipa Creek.

DRAINAGE AREA.--118 mi² (306 km²), revised.

PERIOD OF RECORD.--October 1926 to September 1968, October 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,280 ft (390 m), from topographic map. Prior to Oct. 30, 1934, at site 2 mi (3 km) upstream at different datum.

REMARKS.--Records poor. No regulation above station. Pumping above station for irrigation. See schematic diagram of Santa Ana River basin.

AVERAGE DISCHARGE.--45 years (water years 1927-68, 1974-76), 1.32 ft³/s (0.037 m³/s), 957 acre-ft/yr (1.18 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,460 ft³/s (211 m³/s) Mar. 2, 1938, result of slope-area measurement of maximum flow; no flow for many months in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharge 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)	
Feb. 9	2300	337	9.54	3.98	1.213	Sept. 24	Unknown	*1330	37.7	4.50	1.372
Sept. 11	0230	980	27.8	4.37	1.332						

Minimum daily discharge, no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0			0	9.7	0	0	0			0
2		0			0	4.9	0	0	0			0
3		0			0	9.6	0	0	0			0
4		0			0	0	0	0	0			0
5		0			0	0	0	0	0			0
6		0			.21	0	0	0	0			0
7		0			0	0	0	.24	0			0
8		0			13	0	0	0	0			0
9		0			.85	0	0	0	0			0
10		0			0	0	0	0	.20			35
11		0			0	0	0	0	0			77
12		0			0	0	0	0	0			0
13		0			0	0	0	0	0			0
14		0			0	0	1.2	0	0			0
15		0			0	0	1.7	0	0			0
16		0			0	0	.03	0	0			0
17		0			0	0	0	0	0			0
18		0			0	0	0	0	0			0
19		0			0	0	0	0	0			0
20		0			0	0	0	0	0			0
21		0			0	0	0	0	0			0
22		0			0	0	0	0	0			0
23		0			0	0	0	0	0			0
24		0			0	0	0	0	0			60
25		0			0	0	0	0	0			0
26		0			0	0	0	0	0			0
27		0			0	0	0	0	0			0
28		1.0			0	0	0	0	0			0
29		0			0	0	0	0	0			0
30		0			---	0	0	0	0			0
31		---			---	0	---	0	---			---
TOTAL	0	1.0	0	0	14.06	24.2	2.93	.24	.20	0	0	172
MEAN	0	.033	0	0	.48	.78	.098	.008	.007	0	0	5.73
MAX	0	1.0	0	0	13	9.7	1.7	.24	.20	0	0	77
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	2.0	0	0	28	48	5.8	.5	.4	0	0	341
CAL YR 1975	TOTAL	146.84	MEAN .40	MAX 67	MIN 0	AC-FT 291						
WTR YR 1976	TOTAL	214.63	MEAN .59	MAX 77	MIN 0	AC-FT 426						

11058500 EAST TWIN CREEK NEAR ARROWHEAD SPRINGS, CA

LOCATION.--Lat 34°10'45", long 117°15'53", in NW¼NE¼NE¼ sec.14, T.1 N., R.4 W., San Bernardino County, on right bank 100 ft (30 m) upstream from Del Rosa Water Co.'s diversion dam, 0.5 mi (0.8 km) south of Arrowhead Springs, and 1.0 mi (1.6 km) downstream from Strawberry Creek.

DRAINAGE AREA.--8.80 mi² (22.79 km²).

PERIOD OF RECORD.--December 1919 to current year. Prior to October 1952, published as Strawberry Creek near Arrowhead Springs.

GAGE.--Water-stage recorder. Broad-crested weir since September 1938. Altitude of gage is 1,590 ft (485 m), from topographic map.

REMARKS.--Records fair. No regulation above station. One small diversion for domestic use above station. See schematic diagram of Santa Ana River basin.

AVERAGE DISCHARGE.--56 years (water years 1921-76), 4.37 ft³/s (0.124 m³/s), 3,170 acre-ft/yr (3.91 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,360 ft³/s (95.2 m³/s) Mar. 2, 1938, based on rainfall-runoff studies; no flow at times in 1929, 1931-35.

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)	
Feb. 9	1830	72	2.04	3.07	0.936	Sept. 11	0200	*311	8.81	3.79	1.155
Mar. 1	1530	42	1.19	2.90	0.884						

Minimum daily discharge, 0.34 ft³/s (0.010 m³/s) Oct. 2, 3, Aug. 11.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.36	.55	1.3	.97	.88	11	.82	1.3	.88	.48	.40	.37
2	.34	.71	1.1	1.0	.76	9.7	.79	1.2	.78	.51	.39	.37
3	.34	.60	1.1	1.2	.87	7.4	.76	1.4	.80	.51	.37	.42
4	.37	.60	1.1	1.2	2.5	4.7	1.5	1.4	.80	.53	.37	.40
5	.37	.64	1.2	1.0	5.1	3.8	1.2	1.7	.84	.58	.38	.40
6	.40	.60	1.0	1.1	6.0	3.4	1.0	1.7	.87	.49	.36	.41
7	.45	.46	.89	1.1	10	3.5	.92	2.1	.81	.48	.37	.41
8	.41	.50	.89	.88	16	3.2	.99	1.5	.74	.48	.36	.43
9	.41	.53	.83	.80	27	3.0	.91	1.3	.78	.48	.36	.43
10	.41	.53	.89	.89	11	2.7	.80	1.1	1.1	.45	.35	5.5
11	.61	.49	.96	1.1	5.8	2.9	.73	1.0	1.1	.45	.34	55
12	.60	.45	1.7	1.0	3.9	2.6	.95	.87	.85	.46	.35	4.5
13	.55	.42	1.6	.95	3.0	2.5	4.7	.85	.72	.47	.36	3.5
14	.45	.42	1.2	.94	2.6	2.4	2.9	.76	.60	.49	.35	3.0
15	.45	.42	1.2	.86	2.4	2.3	4.4	.79	.46	.50	.37	2.2
16	.47	.46	1.1	.77	2.1	2.2	3.5	.98	.45	.51	.39	2.1
17	.50	.53	1.1	.81	1.9	2.2	3.0	.91	.51	.51	.38	1.9
18	.55	.60	1.1	.96	1.8	2.0	2.6	.85	.65	.52	.38	1.8
19	.60	.59	1.1	.94	1.8	1.9	2.4	.96	.60	.50	.40	1.6
20	.65	.60	1.1	.84	1.7	1.8	2.2	.93	.60	.50	.38	1.5
21	.60	.53	1.2	.85	1.6	1.5	2.1	.91	.58	.43	.40	1.4
22	.65	.55	1.2	.75	1.5	1.0	2.1	.93	.60	.46	.42	1.3
23	.60	.59	1.1	.82	1.3	.94	2.0	.98	.52	.43	.40	1.2
24	.55	.52	1.1	1.0	1.4	.96	1.8	1.1	.47	.41	.39	1.4
25	.60	.50	1.0	1.0	1.3	.92	1.6	.97	.46	.44	.38	1.2
26	.65	.51	1.0	.91	1.2	.93	1.4	.94	.45	.44	.37	1.1
27	.77	.96	1.0	.84	.98	.86	1.6	.95	.45	.43	.37	1.1
28	.65	1.8	1.1	.85	1.0	.95	1.5	.98	.47	.44	.36	1.0
29	.55	1.6	1.0	.81	1.1	.91	1.5	1.0	.46	.42	.36	.95
30	.55	1.3	1.1	.76	---	.83	1.3	1.2	.51	.42	.36	.92
31	.55	---	.94	.82	---	.83	---	1.2	---	.40	.36	---
TOTAL	16.01	19.56	34.20	28.72	118.49	85.83	53.97	34.76	19.91	14.62	11.58	97.81
MEAN	.52	.65	1.10	.93	4.09	2.77	1.80	1.12	.66	.47	.37	3.26
MAX	.77	1.8	1.7	1.2	27	11	4.7	2.1	1.1	.58	.42	55
MIN	.34	.42	.83	.75	.76	.83	.73	.76	.45	.40	.34	.37
AC-FT	32	39	68	57	235	170	107	69	39	29	23	194
CAL YR 1975	TOTAL	740.32	MEAN	2.03	MAX	14	MIN	.34	AC-FT	1470		
WTR YR 1976	TOTAL	535.46	MEAN	1.46	MAX	55	MIN	.34	AC-FT	1060		

SANTA ANA RIVER BASIN

11058600 WATERMAN CANYON CREEK NEAR ARROWHEAD SPRINGS, CA

LOCATION.--Lat 34°11'36", long 117°16'25", in NE¼NW¼NW¼ sec.11, T.1 N., R.4 W., San Bernardino County, on left bank 0.8 mi (1.3 km) northwest of Arrowhead Springs, and 1.3 mi (2.1 km) north of San Bernardino National Forest boundary.

DRAINAGE AREA.--4.65 mi² (12.04 km²).

PERIOD OF RECORD.--November 1911 to October 1914 (published as "near San Bernardino"), December 1919 to current year.

GAGE.--Water-stage recorder. Broad-crested weir since September 1938. Datum of gage is 2,045.46 ft (623.456 m) above mean sea level. Prior to December 1919, nonrecording gage at site 300 ft (91 m) downstream at different datum.

REMARKS.--Records good. Periods of no gage-height record Jan. 19 to Feb. 19, fair. No regulation above station. One small diversion for domestic use above station. See schematic diagram of Santa Ana River basin.

AVERAGE DISCHARGE.--58 years, (water years 1913-14, 1921-76), 2.53 ft³/s (0.072 m³/s), 1,830 acre-ft/yr (2.26 hm³/yr).

EXTREMES FOR PERIOD OF RECORD (SINCE 1920).--Maximum discharge, 2,350 ft³/s (66.6 m³/s) Mar. 2, 1938, based on rainfall-runoff studies; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 35 ft³/s (0.99 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Mar. 1	1400	46	1.30	2.66	0.811
Sept. 11	0130	*554	15.7	4.32	1.317

Minimum daily discharge, 0.02 ft³/s (0.001 m³/s) Aug. 31, Sept. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	.50	.62	.55	.40	6.9	1.4	1.2	.61	.16	.24	.02
2	.10	.47	.56	.57	.40	3.6	1.4	1.1	.55	.23	.28	.03
3	.09	.37	.55	.55	.60	3.4	1.4	1.2	.58	.23	.29	.24
4	.15	.29	.59	.54	.90	2.8	1.9	1.2	.58	.20	.29	.08
5	.66	.33	.62	.54	1.4	2.6	1.6	1.4	.57	.15	.24	.04
6	.41	.48	.56	.56	2.1	2.4	1.5	1.2	.62	.11	.21	.07
7	.39	.42	.53	.55	3.5	2.2	1.4	1.6	.63	.10	.19	.06
8	.42	.47	.51	.54	5.5	2.2	1.5	1.2	.61	.11	.17	.05
9	1.1	.44	.55	.53	10	2.1	1.5	1.1	.70	.11	.18	.08
10	.72	.48	.61	.54	5.5	2.0	1.4	.96	.92	.16	.18	4.6
11	.60	.44	.65	.54	2.3	2.2	1.4	.89	.80	.20	.11	24
12	.43	.44	1.2	.53	2.2	2.0	1.6	.79	.69	.22	.11	3.0
13	.40	.46	.89	.53	2.0	2.0	3.0	.73	.60	.24	.11	2.5
14	.34	.47	.73	.49	1.8	1.9	1.9	.67	.45	.25	.15	2.0
15	.28	.45	.68	.47	1.7	1.7	3.3	.71	.36	.35	.34	1.7
16	.28	.44	.65	.47	1.6	1.7	2.5	.72	.39	.39	.31	1.5
17	.26	.49	.63	.47	1.6	1.7	2.0	.71	.39	.33	.26	1.3
18	.34	.54	.63	.47	1.5	1.7	1.7	.60	.39	.31	.20	1.3
19	.31	.51	.62	.45	1.5	1.7	1.5	.65	.37	.26	.20	1.2
20	.42	.50	.68	.45	1.4	1.6	1.5	.63	.36	.20	.19	1.2
21	.51	.46	.54	.45	1.4	1.6	1.4	.65	.34	.19	.17	1.1
22	.70	.50	.54	.45	1.4	1.5	1.5	.69	.31	.28	.14	1.1
23	.69	.45	.50	.45	1.3	1.5	1.5	.67	.21	.28	.11	1.1
24	.61	.39	.50	.45	1.4	1.5	1.4	.70	.19	.20	.09	1.3
25	.55	.36	.50	.45	1.3	1.6	1.3	.68	.19	.25	.08	1.2
26	.50	.35	.48	.43	1.3	1.5	1.3	.66	.18	.34	.07	.98
27	.64	.90	.47	.43	1.3	1.5	1.4	.59	.15	.28	.07	.98
28	.66	.96	.47	.43	1.3	1.6	1.3	.71	.14	.27	.07	.89
29	.55	.78	.47	.43	1.3	1.5	1.3	.78	.14	.25	.06	.89
30	.77	.69	.51	.41	---	1.4	1.2	.76	.14	.29	.03	.92
31	.61	---	.52	.41	---	1.4	---	.71	---	.27	.02	---
TOTAL	14.60	14.83	18.56	15.13	59.90	65.0	49.0	26.86	13.16	7.21	5.16	55.43
MEAN	.47	.49	.60	.49	2.07	2.10	1.63	.87	.44	.23	.17	1.85
MAX	1.1	.96	1.2	.57	10	6.9	3.3	1.6	.92	.39	.34	24
MIN	.09	.29	.47	.41	.40	1.4	1.2	.59	.14	.10	.02	.02
AC-FT	29	29	37	30	119	129	97	53	26	14	10	110
CAL YR 1975	TOTAL	462.81	MEAN	1.27	MAX	7.0	MIN	.09	AC-FT	918		
WTR YR 1976	TOTAL	344.84	MEAN	.94	MAX	24	MIN	.02	AC-FT	684		

11059000 WARM CREEK FLOODWAY AT SAN BERNARDINO, CA

LOCATION.--Lat 34°05'45", long 117°16'30", in San Bernardino Grant, San Bernardino County, on left bank 0.4 mi (0.6 km) upstream from Mill Street, and 1.8 mi (2.9 km) upstream from mouth.

DRAINAGE AREA.--47.8 mi² (123.8 km²).

PERIOD OF RECORD.--January 1961 to current year. Prior to October 1965, published as "near San Bernardino."

GAGE.--Water-stage recorder. Altitude of gage is 1,000 ft (305 m), from topographic map. Prior to Dec. 21, 1967, at site 0.4 mi (0.6 km) downstream at different datum.

REMARKS.--Records poor. Flow partly regulated by percolation basins above Marshall Boulevard. Del Rosa Water Co. diverts from East Twin Creek for domestic use and irrigation. See schematic diagram of Santa Ana River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,600 ft³/s (272 m³/s) Feb. 25, 1969, gage height, 6.75 ft (2.057 m), from rating curve extended above 3,000 ft³/s (85.0 m³/s); no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,500 ft³/s (42.5 m³/s), estimated, Sept. 11, gage height, unknown, no flow several days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	.61	.33	1.6	93	.57	.30	.14	.04	.14	.64
2	0	0	.44	.65	1.2	34	.08	.30	.03	.25	.25	.74
3	0	0	.22	.81	2.1	67	.46	.30	.13	.11	.37	23
4	0	0	.44	.47	22	8.7	17	.30	.12	.07	.21	2.0
5	0	0	.46	.34	18	3.9	2.0	.30	.19	.30	.63	.50
6	0	.06	.56	.62	30	8.0	1.1	.30	.03	.43	1.7	.30
7	.60	.09	.49	.22	126	5.6	1.2	15	.19	.13	1.8	.30
8	0	.10	.63	.44	217	2.0	.67	.30	.53	.06	1.3	.30
9	0	.06	.64	.73	189	1.9	1.4	.30	1.5	.18	1.4	.30
10	0	.10	.47	.79	37	1.8	1.0	.30	2.1	.31	1.3	20
11	.77	.11	.39	.81	1.0	2.4	0	.30	1.4	.26	2.1	340
12	15	.06	13	.90	.74	.57	1.6	.30	1.6	.31	.94	1.0
13	0	.07	1.3	.61	.30	0	32	.30	.86	.30	1.9	.30
14	0	.12	.51	.58	.28	0	17	.30	1.4	.30	2.4	.15
15	0	.09	.44	.71	.28	0	13	.30	.98	.27	2.2	.10
16	0	.08	.35	.77	.17	.47	14	.30	.42	.38	1.9	.05
17	0	.11	.35	1.1	.21	.53	3.7	.30	.56	.31	1.8	0
18	0	.06	.42	1.1	.17	.41	1.9	.30	1.2	.32	1.0	0
19	0	.03	2.0	.74	.33	.44	.08	.30	1.8	.28	.21	0
20	.19	.09	7.8	.99	.59	.13	.29	.30	2.2	.35	.47	0
21	0	.13	1.3	.88	.60	0	2.6	.30	1.5	.33	.75	0
22	0	.32	.42	1.1	.01	.01	.30	.30	2.6	.30	.74	0
23	0	.48	.21	1.5	0	.10	.30	.30	1.9	.24	1.2	0
24	0	.41	.74	1.6	.23	.26	.30	.30	1.2	.16	.93	9.7
25	0	.42	.47	1.6	2.0	.26	.30	.30	2.8	.36	.73	2.0
26	0	.24	.62	1.3	1.1	.16	.30	.02	3.1	.47	.85	0
27	0	3.5	.54	.88	.78	.06	.30	0	1.2	.12	.96	0
28	0	14	.43	.66	.93	0	.30	.25	.05	.31	.92	0
29	0	6.1	.53	2.0	.59	.11	.30	.20	.60	.88	.33	0
30	13	.78	.67	2.0	---	.57	.30	.19	.04	.42	.54	0
31	1.8	---	1.2	2.2	---	.87	---	.13	---	.37	.62	---
TOTAL	31.36	27.61	38.65	29.43	654.21	233.25	114.35	22.99	32.37	8.98	32.59	401.38
MEAN	1.01	.92	1.25	.95	22.6	7.52	3.81	.74	1.08	.29	1.05	13.4
MAX	15	14	13	2.2	217	93	32	15	3.1	.88	2.4	340
MIN	0	0	.21	.22	0	0	0	0	.03	.04	.14	0
AC-FT	62	55	77	58	1300	463	227	46	64	18	65	796

CAL YR 1975 TOTAL 906.58 MEAN 2.48 MAX 151 MIN 0 AC-FT 1800
WTR YR 1976 TOTAL 1627.17 MEAN 4.45 MAX 340 MIN 0 AC-FT 3230

SANTA ANA RIVER BASIN

11059100 SAN BERNARDINO WATER QUALITY CONTROL PLANT AT SAN BERNARDINO, CA

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

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 979.50 ft (298.552 m) above mean sea level (levels by city of San Bernardino).

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 30 ft³/s (0.85 m³/s) Jan. 7, 1974, Sept. 10, 11, 1976; minimum daily, 12 ft³/s (0.34 m³/s) Oct. 25, Nov. 4, 5, 7-9, 1972.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	24	23	21	22	26	21	23	24	24	23	25
2	25	23	24	24	24	25	23	23	23	24	26	25
3	24	24	24	23	23	25	23	24	23	23	24	24
4	24	23	24	24	24	25	23	24	24	21	24	24
5	23	23	23	24	22	24	24	23	23	24	25	22
6	25	23	23	24	25	24	24	23	23	24	25	24
7	23	23	23	25	26	23	23	24	25	23	23	25
8	24	23	24	24	29	24	23	24	25	24	23	24
9	24	23	24	23	28	24	24	22	24	25	26	25
10	23	23	23	23	25	24	23	25	24	24	24	30
11	22	23	23	23	24	24	22	24	24	23	25	30
12	22	23	23	25	24	25	23	24	24	25	25	26
13	24	23	22	24	24	24	24	24	23	25	25	27
14	24	23	23	23	22	23	24	24	25	25	24	26
15	23	23	24	25	21	24	23	24	25	24	23	26
16	23	23	24	24	24	24	24	23	25	25	25	26
17	23	23	24	23	24	23	23	26	25	24	24	26
18	22	23	23	23	24	24	23	25	25	23	23	25
19	22	23	23	24	23	24	24	25	23	25	24	24
20	24	24	23	24	24	24	23	24	22	25	25	26
21	23	24	22	24	23	23	24	23	25	25	23	25
22	23	23	24	24	23	25	22	21	24	25	22	26
23	23	23	24	24	24	23	23	22	24	24	24	25
24	23	24	24	23	24	23	23	23	24	25	25	25
25	22	24	20	23	24	23	22	23	24	23	24	24
26	22	24	22	24	24	23	24	23	23	26	24	24
27	23	22	23	24	24	23	24	23	22	25	24	26
28	23	23	22	23	23	23	22	23	25	25	24	25
29	23	23	24	24	23	24	24	21	25	24	23	25
30	25	23	23	23	---	23	24	20	24	25	25	24
31	25	---	24	23	---	22	---	22	---	24	25	---
TOTAL	724	696	719	732	694	738	696	722	719	751	749	759
MEAN	23.4	23.2	23.2	23.6	23.9	23.8	23.2	23.3	24.0	24.2	24.2	25.3
MAX	25	24	24	25	29	26	24	26	25	26	26	30
MIN	22	22	20	21	21	22	21	20	22	21	22	22
AC-FT	1440	1380	1430	1450	1380	1460	1380	1430	1430	1490	1490	1510
CAL YR 1975	TOTAL	8480	MEAN 23.2	MAX 26	MIN 20	AC-FT 16820						
WTR YR 1976	TOTAL	8699	MEAN 23.8	MAX 30	MIN 20	AC-FT 17250						

11059100 SAN BERNARDINO WATER QUALITY CONTROL PLANT AT SAN BERNARDINO, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to current year.
 CHEMICAL ANALYSES: Water years 1973 to current year.

PERIOD OF DAILY RECORD.--
 SPECIFIC CONDUCTANCE: October 1972 to current year.

INSTRUMENTATION.--Specific conductance recorder since October 1972.

EXTREMES FOR PERIOD OF RECORD.--
 SPECIFIC CONDUCTANCE: Maximum recorded, 1,260 micromhos May 23, 1975; minimum, 725 micromhos Sept. 11, 1976.

EXTREMES FOR CURRENT YEAR.--
 SPECIFIC CONDUCTANCE: Maximum, 1,180 micromhos Sept. 20; minimum, 725 micromhos Sept. 11.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)
OCT							
02...	0910	30	974	27.0	528	.72	42.8
16...	1415	30	947	27.0	509	.69	41.2
NOV							
04...	1150	34	1010	26.0	522	.71	47.9
17...	1200	16	918	23.8	486	.66	21.0
DEC							
01...	1400	31	918	22.5	481	.65	40.3
17...	1400	30	943	22.5	520	.71	42.1
29...	1400	37	889	21.0	526	.72	52.5
JAN							
07...	1115	34	941	21.5	530	.72	48.7
20...	1000	33	1050	21.3	542	.74	48.3
FEB							
03...	0900	26	1010	20.8	550	.75	38.6
18...	0900	30	1010	20.5	530	.72	42.9
MAR							
01...	1000	36	997	21.5	546	.74	53.1
25...	1230	31	944	23.3	522	.71	43.7
APR							
01...	1100	38	982	23.2	529	.72	54.3
14...	1000	33	977	22.3	519	.71	46.2
MAY							
04...	1400	30	997	25.2	537	.73	43.5
21...	1000	33	1000	23.0	522	.71	46.5
JUN							
02...	1400	30	970	26.8	510	.69	41.3
15...	1200	34	961	27.3	562	.76	51.6
JUL							
02...	1100	33	952	27.8	544	.74	48.5
13...	0820	18	1010	27.4	536	.73	26.0
AUG							
03...	0900	23	1020	27.5	559	.76	34.7
16...	0950	30	927	27.7	503	.68	40.7
SEP							
01...	1100	31	980	28.6	552	.75	46.7
30...	1000	33	978	27.1	524	.71	46.7

11059100 SAN BERNARDINO WATER QUALITY CONTROL PLANT AT SAN BERNARDINO, CA--Continued

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1050	942	1010	1080	1000	1040	1030	914	969	1040	920	974
2	1070	942	1010	1060	971	1020	1040	939	995	992	860	923
3	1050	949	1010	1110	956	1010	1070	957	1020	993	905	962
4	1020	914	965	1110	994	1060	1070	980	1030	983	875	936
5	969	865	921	1100	964	1030	1070	989	1020	1000	862	937
6	1050	872	947	1100	1000	1060	1030	939	990	1020	906	975
7	1080	951	1000	1100	990	1040	1000	914	964	1020	911	979
8	1090	972	1030	1080	972	1040	1050	916	976	1020	903	973
9	1060	964	1020	1070	952	1020	1090	1000	1050	1000	923	974
10	1060	959	1020	1130	938	1020	1070	988	1030	1030	921	981
11	1070	978	1020	1170	974	1070	1040	950	1000	1060	931	1010
12	1050	963	1000	1080	952	1040	1060	967	1020	1040	919	982
13	1080	912	995	1050	1020	1040	1060	970	1020	1040	915	994
14	1120	955	1030	1030	894	988	1050	944	1000	1060	971	1030
15	1070	962	1020	1040	936	996	1060	925	990	1070	961	1030
16	1050	927	991	1090	1000	1020	1060	955	1010	1060	953	1010
17	1050	943	1000	1060	918	981	1080	943	1020	1050	935	1010
18	1040	940	1010	1070	948	1020	1080	962	1030	1040	969	1010
19	1020	914	976	1060	976	1030	1060	956	1020	1080	977	1020
20	1090	932	997	1060	982	1030	1050	940	1000	1110	1010	1070
21	1090	946	1030	1050	976	1020	1010	890	960	1110	1010	1070
22	1060	955	1010	1070	984	1040	1060	902	979	1130	1000	1060
23	1080	979	1040	1050	942	1000	1080	968	1030	1140	1050	1090
24	1060	977	1030	1060	940	1000	1090	948	1030	1080	1010	1050
25	1050	943	1000	1060	984	1040	1090	934	1000	1070	1010	1050
26	1020	932	981	1060	980	1030	998	862	920	1120	985	1050
27	1080	904	989	1060	968	1010	1010	932	977	1110	998	1060
28	1060	988	1030	1000	904	945	1010	894	955	1090	990	1050
29	1080	996	1050	1000	942	984	1050	890	959	1080	987	1040
30	1100	981	1040	994	912	962	1050	937	1010	1080	1000	1060
31	1110	1010	1060	---	---	---	1050	949	1010	1040	957	1010
MONTH	1120	865	1010	1170	894	1020	1090	862	999	1140	860	1010
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1010	934	975	1060	993	1020	1090	976	1040	1060	977	1020
2	1080	947	997	1070	967	1010	1080	960	1020	1010	937	978
3	1060	988	1040	1060	944	1010	1050	948	1000	1050	940	990
4	1050	1000	1040	1100	990	1040	1040	964	1010	1050	992	1030
5	1050	967	1010	1090	996	1050	1090	958	1020	1050	988	1030
6	1040	960	1010	1060	983	1030	1100	1000	1060	1050	976	1020
7	1030	917	971	1040	967	1010	1080	978	1040	1050	984	1020
8	995	909	963	1090	961	1020	1090	978	1040	1040	988	1020
9	1040	818	918	1080	990	1050	1090	1010	1060	1020	968	1000
10	1060	957	1000	1040	952	1010	1060	980	1030	1060	960	1010
11	1080	979	1040	1090	976	1030	1040	964	1010	1050	988	1020
12	1090	988	1050	1090	987	1050	1060	966	1020	1030	946	988
13	1090	983	1050	1070	961	1020	1050	986	1030	---	---	---
14	1100	973	1040	1020	939	990	1070	968	1020	---	---	---
15	1090	980	1030	1040	928	989	1120	979	1050	1000	946	975
16	1080	963	1020	1050	952	1010	1090	1010	1060	1000	934	963
17	1070	953	1020	1050	947	1010	1060	972	1020	1030	944	984
18	1070	958	1020	1090	951	1030	1020	948	991	1030	982	1010
19	1100	1000	1050	1090	988	1060	1070	945	1010	1050	964	1010
20	1100	1000	1050	1050	984	1020	1100	1000	1050	1070	988	1030
21	1040	959	1000	1020	939	988	1090	980	1040	1050	980	1010
22	1020	936	989	1070	931	1000	1060	968	1020	1050	985	1010
23	1080	938	1010	1060	962	1020	1060	969	1020	1020	973	999
24	1080	972	1040	1060	968	1030	1050	991	1030	1040	960	998
25	1060	977	1030	1050	944	1000	1030	956	996	1060	989	1020
26	1090	977	1030	1050	962	1020	1060	952	1000	1060	1010	1040
27	1090	984	1050	1050	980	1030	1080	987	1040	1050	966	1000
28	1070	986	1030	1040	961	1000	1080	995	1040	1080	975	1020
29	1050	971	1020	1080	962	1020	1100	994	1050	1070	1000	1030
30	---	---	---	1070	981	1040	1080	982	1040	1040	983	1000
31	---	---	---	1070	969	1030	---	---	---	1040	973	1000
MONTH	1100	818	1020	1100	928	1020	1120	945	1030	1080	934	1010

11059300 SANTA ANA RIVER AT E STREET, NEAR SAN BERNARDINO, CA

LOCATION.--Lat 34°04'05", long 117°17'36", in San Bernardino Grant, San Bernardino County, on downstream side of E Street bridge, 0.8 mi (1.3 km) downstream from San Timoteo Creek, 1 mi (2 km) upstream from Warm Creek, and 3 mi (5 km) south of San Bernardino.

DRAINAGE AREA.--532 mi² (1,378 km²).

PERIOD OF RECORD.--March 1939 to September 1954, October 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 954.50 ft (290.932 m) above mean sea level. Prior to Nov. 10, 1950, water-stage recorder on right bank at datum 10.00 ft (3.048 m) higher. Nov. 11, 1950, to Sept. 30, 1954, water-stage recorders on both banks at datum 10.00 ft (3.048 m) higher.

REMARKS.--Records poor. Major construction work in river channel throughout entire water year precluded collection of gage-height data and definition of stage-discharge relation; therefore, flow was estimated on basis of records and upstream stations. Flow partly regulated by Big Bear Lake (station 11049000). Natural flow of stream affected by ground-water withdrawals and diversions for domestic use and irrigation above station. Effluent from sewage reclamation plant causes sustained flow since station was last operated. See schematic diagram of Santa Ana River basin.

AVERAGE DISCHARGE.--15 years (water years 1940-54), 12.5 ft³/s (0.354 m³/s), 9,050 acre-ft/yr (11.2 hm³/yr); 10 years (water years 1967-76), 61.0 ft³/s (1.728 m³/s), 44,190 acre-ft/yr (54.5 hm³/yr). The figure published in the 1975 report was in error; the correct figure is 9 years (water years 1967-75), 64.3 ft³/s (1.821 m³/s), 46,590 acre-ft/yr (57.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,000 ft³/s (793 m³/s) Feb. 25, 1969; maximum gage height, 16.50 ft (5.029 m), present datum, Jan. 23, 1943, discharge uncertain but was probably less than 8,000 ft³/s (227 m³/s); no flow many days prior to 1967.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	25	25	22	25	140	23	24	25	25	24	27
2	26	24	25	26	26	70	24	24	24	25	27	27
3	25	25	25	25	26	100	24	25	24	24	25	70
4	25	24	25	25	47	35	50	25	25	22	25	27
5	24	24	24	25	41	29	27	24	24	25	27	24
6	26	24	25	26	54	33	28	24	24	25	28	25
7	25	24	24	26	190	30	25	50	26	24	26	26
8	25	24	26	25	325	27	25	25	27	25	25	25
9	25	24	26	25	284	27	26	23	27	26	28	25
10	24	24	24	25	100	27	25	26	27	25	26	26
11	24	24	24	25	26	27	23	25	26	24	28	800
12	45	24	42	27	26	27	26	25	27	26	27	28
13	25	24	24	26	25	25	70	25	25	26	28	28
14	25	24	25	25	23	24	50	25	27	26	27	27
15	24	24	25	27	22	25	40	25	27	25	26	27
16	24	24	25	26	25	25	43	24	26	26	28	27
17	24	24	25	25	25	25	32	27	27	25	27	27
18	23	24	24	25	25	25	26	26	27	24	25	26
19	23	24	26	26	25	25	25	26	25	26	25	25
20	25	25	32	26	27	25	24	25	25	26	26	27
21	24	25	24	26	25	24	28	24	28	26	25	26
22	24	24	25	26	24	26	23	22	28	26	24	27
23	24	24	25	27	25	24	24	23	27	25	26	26
24	24	25	26	26	25	24	24	24	26	26	27	45
25	23	25	21	26	27	24	23	24	28	24	26	27
26	23	25	24	26	26	24	25	24	27	27	26	25
27	24	27	25	26	26	24	25	24	24	26	26	27
28	24	50	23	25	25	24	23	24	26	26	26	26
29	24	30	26	27	25	25	25	22	27	26	24	26
30	45	25	25	26	---	25	25	21	25	26	27	25
31	28	---	26	26	---	24	---	23	---	25	27	---
TOTAL	800	763	791	795	1595	1039	881	778	781	783	812	1624
MEAN	25.8	25.4	25.5	25.6	55.0	33.5	29.4	25.1	26.0	25.3	26.2	54.1
MAX	45	50	42	27	325	140	70	50	28	27	28	800
MIN	23	24	21	22	22	24	23	21	24	22	24	24
AC-FT	1590	1510	1570	1580	3160	2060	1750	1540	1550	1550	1610	3220
CAL YR 1975 TOTAL	9785		MEAN 26.8	MAX 270	MIN 20	AC-FT 19410						
WTR YR 1976 TOTAL	11442		MEAN 31.3	MAX 800	MIN 21	AC-FT 22700						

11060400 WARM CREEK NEAR SAN BERNARDINO, CA

LOCATION.--Lat 34°04'42", long 117°17'58", in San Bernardino Grant, San Bernardino County, on left bank 0.2 mi (0.3 km) downstream from State Highway 395 bridge, and 2.0 mi (3.2 km) southeast of San Bernardino.

DRAINAGE AREA.--15.0 mi² (38.9 km²).

PERIOD OF RECORD.--February 1964 to September 1972, October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 960 ft (293 m), from topographic map. Prior to Oct. 1, 1974, at site 0.1 mi (0.2 km) upstream at different datum.

REMARKS.--Records fair, except those for period of no gage-height record, Aug. 25 to Sept. 13, which are poor. Natural channel prior to September 1972; concrete-lined channel October 1974 to current year. No regulation or diversion above station. See schematic diagram of Santa Ana River basin.

AVERAGE DISCHARGE.--8 years (water years 1965-72), 1.61 ft³/s (0.046 m³/s), 1,170 acre-ft/yr (1.44 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,200 ft³/s (62.3 m³/s) Jan. 25, 1969, gage height, 5.55 ft (1.692 m), at site and datum then in use; no flow many days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,930 ft³/s (54.7 m³/s) Sept. 11, gage height, 3.01 ft (0.917 m); no flow for several days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.73	.05	.07	0	.21	53	.33	.07	.34	1.0	.16	.30
2	.42	.18	.28	0	.06	28	.28	.10	.13	1.3	.13	.30
3	.43	.21	.04	0	.23	11	.26	.18	.45	.82	.41	13
4	.31	.23	.14	.01	22	.04	6.7	.19	.42	.75	.37	.30
5	.32	.06	.12	.07	13	.07	.27	.26	.24	.78	.15	.30
6	.56	.07	.03	.20	21	0	.25	.21	.20	1.0	.58	.30
7	.88	.18	.16	.08	67	0	.50	8.6	.35	.86	.26	.30
8	.19	.03	.43	.12	128	.05	.14	.15	.15	.86	.23	.30
9	.13	0	.13	.19	46	0	.07	.08	.11	.97	.44	.30
10	.11	.10	.44	.02	1.6	.19	.03	.51	3.5	.61	.47	56
11	2.8	.03	.18	.04	.04	.34	0	.59	.39	1.1	.25	205
12	12	.14	5.3	.02	.04	.01	2.0	.14	.12	.60	.13	.30
13	.38	.12	.24	.09	.13	.09	19	.27	.19	.69	.27	.30
14	.12	.07	.02	.02	.30	.12	1.6	.08	.20	.84	.21	.29
15	.15	.16	.03	.08	.44	.28	3.3	.10	.28	.82	.23	.32
16	.13	.04	.15	.13	.20	.28	.29	.07	.16	.90	.24	.10
17	.12	.07	.14	.25	0	.32	.01	.29	1.4	.41	.37	.04
18	.05	.26	.49	.21	.03	.56	0	.24	.26	.39	.35	.42
19	.05	.12	.23	.18	.02	.38	.02	.25	.78	.59	.37	.26
20	.24	.14	9.1	.25	.01	.25	.10	.68	.18	.50	.42	.09
21	.17	.24	.23	.12	0	.47	.17	.60	.36	.56	.25	.19
22	.12	.01	.12	.21	0	.34	.14	.08	.29	.50	.13	.27
23	.05	0	.04	.20	0	.51	.13	.02	.22	.83	.37	.30
24	.01	.11	.09	.08	.01	.29	.04	.10	.29	.60	.22	4.0
25	.13	.13	.02	.03	.03	.52	.01	.31	.47	.33	.30	.57
26	.67	.27	.16	0	.05	.32	.03	.15	.50	1.3	.30	.19
27	.42	7.5	.04	.15	.01	.43	.16	.15	.51	.56	.30	.62
28	.09	10	.03	.22	.07	.10	.09	.19	.94	.48	.30	1.6
29	.04	.59	.19	.09	.06	.06	.07	.20	1.1	.39	.30	2.4
30	15	.21	.14	.16	---	.09	.09	.07	.76	.58	.30	1.9
31	.63	---	.03	.10	---	.10	---	.18	---	.34	.30	---
TOTAL	37.45	21.32	18.81	3.32	300.54	98.21	36.08	15.11	15.29	22.26	9.11	290.56
MEAN	1.21	.71	.61	.11	10.4	3.17	1.20	.49	.51	.72	.29	9.69
MAX	15	10	9.1	.25	128	53	19	8.6	3.5	1.3	.58	205
MIN	.01	0	.02	0	0	0	0	.02	.11	.33	.13	.04
AC-FT	74	42	37	6.6	596	195	72	30	30	44	18	576
CAL YR 1975	TOTAL	668.38	MEAN	1.83	MAX	81	MIN	0	AC-FT	1330		
WTR YR 1976	TOTAL	868.06	MEAN	2.37	MAX	205	MIN	0	AC-FT	1720		

SANTA ANA RIVER BASIN

11060500 MEEKS AND DALEY CANAL NEAR COLTON, CA

LOCATION.--Lat 34°04'47", long 117°18'00", in San Bernardino Grant, San Bernardino County, 1.5 mi (2.4 km) north-east of Colton.

PERIOD OF RECORD.--September 1920 to current year. Published with station Warm Creek near Colton, October 1950 to September 1961.

GAGE.--Water-stage recorder. Altitude of gage is 965 ft (294 m), from topographic map.

REMARKS.--Records good. All flow passing station is pumped from ground-water basin for irrigation in vicinity of Colton, Riverside, and Corona. See schematic diagram of Santa Ana River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 25 ft³/s (0.71 m³/s) Mar. 2, 1938; no flow at times in most years.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	5.7	0	0	5.0	0	1.9	5.9	5.2	5.2	5.0	4.9
2	5.4	5.8	0	4.0	5.0	0	5.7	5.9	5.2	5.2	5.0	5.0
3	5.5	5.8	0	5.2	5.0	0	7.2	6.1	5.2	5.2	5.0	5.0
4	5.5	5.8	0	5.2	5.0	0	7.2	5.8	5.2	5.2	5.0	5.0
5	5.7	5.8	0	5.2	1.7	0	6.9	5.8	5.2	5.2	5.0	5.0
6	5.5	5.8	0	5.2	0	0	6.2	5.5	5.2	5.1	5.2	5.0
7	5.5	5.8	0	5.1	0	0	6.2	5.5	5.2	5.0	5.0	5.0
8	5.5	5.8	0	5.0	0	0	6.1	5.5	5.2	5.0	5.0	5.0
9	5.5	5.9	0	5.1	0	0	6.2	5.5	5.0	5.0	5.0	5.0
10	5.5	6.1	3.9	5.0	0	0	6.2	5.5	5.0	5.0	5.3	1.8
11	5.5	6.5	5.8	5.0	0	0	6.2	5.5	5.0	5.0	5.0	0
12	5.4	6.5	5.8	5.0	0	0	6.2	5.5	5.0	5.0	5.0	0
13	5.3	6.5	5.8	5.0	0	0	6.2	5.5	5.0	5.0	5.2	0
14	5.1	6.5	5.8	5.0	0	0	6.2	5.5	5.0	5.0	5.0	0
15	5.3	6.5	5.8	5.0	0	0	6.1	5.5	5.0	5.0	5.0	0
16	5.7	6.5	5.7	5.1	0	0	6.0	5.5	5.0	5.0	5.0	0
17	5.8	6.5	5.6	5.2	0	0	5.9	5.5	5.0	5.0	5.3	0
18	5.7	6.5	1.2	5.1	0	0	5.9	5.5	5.0	5.0	5.4	0
19	5.8	6.5	3.7	4.9	0	0	5.9	5.5	5.0	5.0	5.0	0
20	5.8	6.5	5.8	5.0	0	0	5.9	5.5	5.2	5.0	5.0	0
21	5.8	6.5	5.8	5.0	0	0	5.9	5.5	5.2	5.0	5.0	0
22	5.8	6.5	5.8	5.0	0	0	5.9	5.5	5.5	5.0	5.0	0
23	5.8	6.5	5.8	5.0	0	0	5.8	5.2	5.5	5.0	4.9	0
24	5.6	6.5	1.2	5.1	0	0	5.9	5.2	5.5	5.0	5.0	3.7
25	5.6	6.5	0	5.2	0	0	5.8	5.2	5.2	5.0	5.0	5.4
26	5.7	6.5	0	5.0	0	0	5.8	5.2	5.2	5.0	5.0	5.5
27	5.7	6.5	0	5.0	0	0	5.8	5.2	5.2	5.0	5.0	5.2
28	5.7	2.6	0	5.0	0	0	5.9	5.2	5.2	5.0	5.0	5.2
29	5.8	0	0	5.0	0	.36	6.1	5.2	5.4	5.0	5.0	5.2
30	5.4	0	0	5.0	---	0	5.9	5.2	5.2	5.0	5.0	5.1
31	5.8	---	0	5.0	---	1.2	---	5.2	---	5.0	5.0	---
TOTAL	172.9	171.4	73.5	150.6	21.7	1.56	179.1	169.8	154.9	156.1	156.3	82.0
MEAN	5.58	5.71	2.37	4.86	.75	.050	5.97	5.48	5.16	5.04	5.04	2.73
MAX	5.8	6.5	5.8	5.2	5.0	1.2	7.2	6.1	5.5	5.2	5.4	5.5
MIN	5.1	0	0	0	0	0	1.9	5.2	5.0	5.0	4.9	0
AC-FT	343	340	146	299	43	3.1	355	337	307	310	310	163
CAL YR 1975	TOTAL	1122.95	MEAN	3.08	MAX	7.6	MIN	0	AC-FT	2230		
WTR YR 1976	TOTAL	1489.86	MEAN	4.07	MAX	7.2	MIN	0	AC-FT	2960		

11062000 LYTLE CREEK NEAR FONTANA, CA

LOCATION.--Lat 34°12'44", long 117°27'26", in SE¼NW¼SE¼ sec.36, T.2 N., R.6 W., San Bernardino County, on right bank 75 ft (23 m) upstream from highway bridge, 0.7 mi (1.1 km) upstream from right tributary, 2.3 mi (3.7 km) downstream from Lytle Creek conduit, and 8 mi (13 km) north of Fontana.

DRAINAGE AREA.--46.3 mi² (119.9 km²).

PERIOD OF RECORD.--October 1918 to current year. Combined records of Lytle Creek and diversions, October 1898 to December 1899, October 1904 to current year (published as "at mouth of canyon near Rialto" 1898-99, as "near San Bernardino" 1904-18, and as Lytle Creek and Fontana pipeline near Fontana 1919-31). Monthly discharge only for some periods published in WSP 1315-B.

GAGE.--Water-stage recorder on creek. Dual arch-culvert control since 1964. Water-stage recorders and sharp-crested weirs on conduit since June 3, 1949, and infiltration line since Oct. 1, 1971. Altitude of creek gage is 2,380 ft (725 m), from topographic map. October 1918 to Mar. 21, 1938, at site 1 mi (1.6 km) downstream at different datum. Mar. 22, 1938, to Nov. 20, 1963, at site 75 ft (23 m) downstream at datum 4.58 ft (1.396 m). Sharp-crested weirs at different datum.

REMARKS.--Records, creek only, poor; combined creek and diversion, fair. No regulation above station. Southern California Edison Co.'s Lytle Creek conduit diverts 2.3 mi (3.7 km) upstream for power development, and Fontana Union Water Co. collects water from an infiltration line upstream for irrigation. See schematic diagram of Santa Ana River basin. For records of combined discharge of Lytle Creek and diversions, see following page.

AVERAGE DISCHARGE.--Creek only: 58 years, 13.5 ft³/s (0.382 m³/s), 9,780 acre-ft/yr (12.1 hm³/yr). Combined creek and diversions: 73 years (water years 1899, 1905-76), 41.9 ft³/s (1.187 m³/s), 30,360 acre-ft/yr (37.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Creek only: Maximum discharge, 35,900 ft³/s (1,020 m³/s) Jan. 25, 1969, gage height, 15.0 ft (4.57 m), from floodmark, from rating extended above 570 ft³/s (16.1 m³/s) on basis of slope-area measurements at gage heights 10.78 ft (3.286 m) and 15.0 ft (4.57 m); no flow at times each year. Combined creek and diversions: Maximum discharge, 35,900 ft³/s (1,020 m³/s) Jan. 25, 1969; minimum daily discharge, 0.12 ft³/s (0.34 m³/s) June 21, 22, 1976.

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

Date	Time	Creek Discharge		Gage height		Combined Creek and Diversions Discharge	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)	(ft ³ /s)	(m ³ /s)
Feb. 6	Unknown	386	10.9	5.18	1.579	Unknown	
Mar. 1	1300	350	9.91	5.10	1.554	360	10.2
Sept. 10	2200	*395	11.2	5.20	1.585	*403	11.4

Creek only: Minimum daily discharge, no flow for many months.
 Combined creek and diversions: Minimum daily discharge, 12 ft³/s (0.34 m³/s) June 21, 22.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	57	0					0
2					0	30	0					0
3					0	9.7	0					0
4					0	3.0	0					0
5					5.0	2.5	0					0
6					16	2.0	0					0
7					31	1.5	0					0
8					48	1.2	0					0
9					84	1.0	0					0
10					64	.80	0					42
11					38	.60	0					85
12					0	.30	0					28
13					0	.20	0					21
14					0	.10	0					17
15					0	.05	.03					16
16					0	0	.02					21
17					0	0	0					19
18					0	0	0					19
19					.22	0	0					11
20					0	0	0					3.0
21					0	0	0					3.0
22					0	0	0					3.0
23					0	0	0					3.0
24					0	0	0					18
25					0	0	0					28
26					0	0	0					26
27					0	0	0					25
28					.07	0	0					24
29					.18	0	0					20
30					---	0	0					21
31		---			---	0	---		---			---
TOTAL	0	0	0	0	286.47	109.95	.05	0	0	0	0	453.0
MEAN	0	0	0	0	9.88	3.55	.002	0	0	0	0	15.1
MAX	0	0	0	0	84	57	.03	0	0	0	0	85
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	568	218	.10	0	0	0	0	899
CAL YR 1975	TOTAL	376.53	MEAN	1.03	MAX	67	MIN	0	AC-FT	747		
WTR YR 1976	TOTAL	849.47	MEAN	2.32	MAX	85	MIN	0	AC-FT	1680		

SANTA ANA RIVER BASIN

11062000 LYTLE CREEK NEAR FONTANA, CA--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF LYTLE CREEK,
SOUTHERN CALIFORNIA EDISON CO.'S LYTLE CONDUIT, AND FONTANA UNION WATER
CO.'S INFILTRATION LINE, NEAR FONTANA, CA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	16	18	17	16	76	27	24	19	16	14	14
2	16	16	19	16	16	49	27	24	19	16	14	14
3	15	16	19	16	18	40	26	23	19	16	14	15
4	16	15	19	17	19	33	27	23	19	16	13	15
5	16	15	19	17	25	33	26	24	19	16	13	14
6	16	16	17	18	41	32	27	24	19	15	14	15
7	16	16	17	18	53	32	26	24	19	15	14	15
8	15	16	17	18	67	31	25	23	19	15	14	14
9	15	16	17	17	88	31	26	23	19	15	13	15
10	15	16	17	19	72	31	25	23	19	15	14	58
11	16	17	16	18	50	31	26	22	19	15	14	92
12	16	18	17	17	27	30	26	22	19	15	14	35
13	16	18	18	17	28	31	26	21	19	15	14	30
14	15	16	17	16	28	31	25	21	18	15	15	32
15	15	16	17	16	28	30	24	21	18	15	15	29
16	15	17	17	17	27	30	25	21	18	15	15	29
17	15	17	17	17	27	28	23	21	18	15	15	28
18	15	17	17	18	27	28	24	21	18	15	14	27
19	16	16	16	19	28	28	23	21	18	15	15	26
20	16	16	16	18	28	28	23	21	17	15	15	25
21	15	16	16	18	29	28	23	21	12	15	15	24
22	16	17	16	16	29	28	24	21	12	15	15	24
23	15	16	16	17	29	28	24	21	14	15	15	23
24	15	16	16	17	28	29	24	21	17	14	15	37
25	16	17	16	17	28	27	24	21	17	14	15	35
26	16	17	16	17	28	27	24	20	17	14	14	33
27	17	17	16	17	28	27	25	20	16	14	14	32
28	17	18	16	16	28	27	25	21	16	13	14	31
29	16	18	16	16	28	28	25	21	16	14	15	32
30	16	18	16	16	---	28	24	20	16	14	13	29
31	17	---	16	16	---	28	---	20	---	14	13	---
TOTAL	486	496	523	529	968	988	749	674	525	461	441	842
MEAN	15.7	16.5	16.9	17.1	33.4	31.9	25.0	21.7	17.5	14.9	14.2	28.1
MAX	17	18	19	19	88	76	27	24	19	16	15	92
MIN	15	15	16	16	16	27	23	20	12	13	13	14
AC-FT	964	984	1040	1050	1920	1960	1490	1340	1040	914	875	1670
CAL YR 1975	TOTAL	7888	MEAN 21.6	MAX 81	MIN 15	AC-FT 15650						
WTR YR 1976	TOTAL	7682	MEAN 21.0	MAX 92	MIN 12	AC-FT 15240						

11063500 LONE PINE CREEK NEAR KEENBROOK, CA

LOCATION.--Lat 34°15'59", long 117°27'47", in SE¼SE¼SW¼ sec.12, T.2 N., R.6 W., San Bernardino County, on right bank 50 ft (15 m) upstream from the Atchison, Topeka, and Santa Fe Railway Co. bridge, 150 ft (46 m) upstream from mouth, and 1.1 mi (1.8 km) north of Keenbrook.

DRAINAGE AREA.--15.1 mi² (39.1 km²).

PERIOD OF RECORD.--December 1919 to September 1938, June 1949 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 2,605.92 ft (794.284 m) above mean sea level. Prior to Mar. 2, 1938, water-stage recorder (destroyed by flood) and Mar. 2 to Sept. 30, 1938, nonrecording gage at same site at datum 0.98 ft (0.299 m) higher.

REMARKS.--Records good except those for periods of no gage-height record, Dec. 13 to Jan. 22, Feb. 6-17, and May 13 to June 29, which are poor. No regulation or diversion above station. See schematic diagram of Santa Ana River basin.

AVERAGE DISCHARGE.--45 years (water years 1921-38, 1950-76), 1.41 ft³/s (0.040 m³/s), 1,020 acre-ft/yr (1.26 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,180 ft³/s (175 m³/s) Mar. 2, 1938, on basis of slope-area measurement of maximum flow; no flow Aug. 6-8, Sept. 29, 30, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 80 ft³/s (2.27 m³/s) and maximum (*):

Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)
Feb. 9	Unknown	147	4.16	3.22	0.981
Sept. 10	2200	*274	7.76	4.07	1.241

Minimum daily discharge, 0.11 ft³/s (0.003 m³/s) Aug. 30, 31, Sept. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.35	.37	.29	.35	.35	2.2	.46	.36	.37	.29	.42	.11
2	.35	.35	.29	.35	.35	1.9	.50	.35	.37	.29	.42	.13
3	.35	.35	.29	.35	.35	2.0	.50	.35	.37	.24	.42	.16
4	.35	.35	.29	.35	.35	.47	.57	.35	.37	.22	.50	.19
5	.42	.37	.29	.35	.44	.42	.58	.37	.37	.21	.50	.18
6	.50	.42	.29	.35	1.0	.42	.49	.38	.37	.24	.50	.19
7	.50	.42	.30	.35	1.2	.42	.42	.39	.37	.18	.47	.19
8	.48	.38	.29	.35	2.0	.42	.42	.37	.37	.19	.43	.19
9	.50	.35	.29	.35	3.3	.42	.42	.39	.37	.21	.35	.19
10	.50	.35	.32	.35	1.4	.42	.42	.35	.37	.21	.35	13
11	.50	.35	.38	.35	1.0	.42	.43	.37	.50	.16	.35	1.0
12	.42	.35	.50	.35	.70	.39	.35	.35	.45	.17	.43	.24
13	.42	.32	.45	.35	.62	.35	.36	.37	.45	.17	.42	.24
14	.42	.29	.40	.35	.60	.37	.35	.37	.45	.17	.42	.19
15	.42	.29	.37	.35	.58	.36	.36	.37	.45	.14	.42	.19
16	.42	.29	.35	.35	.56	.35	.32	.37	.43	.18	.46	.19
17	.46	.29	.33	.35	.54	.35	.29	.37	.43	.31	.35	.19
18	.50	.29	.32	.35	.50	.37	.29	.37	.43	.35	.35	.19
19	.49	.29	.31	.35	.50	.41	.29	.37	.43	.29	.35	.19
20	.43	.29	.32	.35	.50	.35	.29	.37	.43	.29	.35	.19
21	.42	.29	.40	.35	.50	.35	.29	.37	.40	.29	.34	.19
22	.48	.29	.38	.35	.54	.29	.29	.37	.40	.29	.27	.19
23	.43	.29	.36	.35	.59	.29	.29	.37	.40	.24	.22	.19
24	.42	.29	.35	.35	.66	.29	.29	.37	.40	.24	.19	.20
25	.42	.29	.35	.35	.73	.29	.31	.37	.38	.27	.19	.20
26	.43	.29	.35	.35	.78	.29	.34	.37	.35	.29	.18	.19
27	.44	.29	.35	.35	.78	.30	.35	.37	.32	.28	.13	.19
28	.37	.29	.35	.35	.88	.29	.35	.37	.30	.35	.12	.19
29	.36	.29	.35	.35	1.5	.33	.35	.37	.30	.35	.14	.12
30	.38	.30	.35	.35	---	.42	.33	.37	.29	.35	.11	.16
31	.39	---	.35	.35	---	.42	---	.37	---	.42	.11	---
TOTAL	13.32	9.67	10.61	10.85	23.80	16.37	11.30	11.41	11.69	7.88	10.26	19.16
MEAN	.43	.32	.34	.35	.82	.53	.38	.37	.39	.25	.33	.64
MAX	.50	.42	.50	.35	3.3	2.2	.58	.39	.50	.42	.50	.13
MIN	.35	.29	.29	.35	.35	.29	.29	.35	.29	.14	.11	.11
AC-FT	26	19	21	22	47	32	22	23	23	16	20	38
CAL YR 1975	TOTAL	222.45	MEAN	.61	MAX	6.8	MIN	.29	AC-FT	441		
WTR YR 1976	TOTAL	156.32	MEAN	.43	MAX	13	MIN	.11	AC-FT	310		

11063510 CAJON CREEK BELOW LONE PINE CREEK, NEAR KEENBROOK, CA

LOCATION.--Lat 34°15'58", long 117°27'47", in NE¼NW¼ sec.13, T.2 N., R.6 W., San Bernardino County, on right bank 25 ft (8 m) downstream from confluence with Lone Pine Creek, 1.1 mi (1.8 km) north of Keenbrook.

DRAINAGE AREA.--55.8 mi² (144.5 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 2,600 ft (792 m), from topographic map.

REMARKS.--Records poor. No gage-height record Oct. 23 to Feb. 18, May 12 to June 30, Sept. 10-14. No regulation or diversion above station. See schematic diagram of Santa Ana River basin.

AVERAGE DISCHARGE.--5 years, 7.94 ft³/s (0.225 m³/s), 5,750 acre-ft/yr (7.09 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,780 ft³/s (50.4 m³/s) Feb. 11, 1973, gage height, 13.50 ft (4.115 m); minimum daily, 2.2 ft³/s (0.062 m³/s) Dec. 16, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s (4.25 m³/s) and maximum (*), from rating extended above 10 ft³/s (0.28 m³/s) on basis of slope-area measurement of peak flow:

Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)
Feb. 8	2230	520	14.7	10.10	3.078
Sept. 10	Unknown	*1370	38.8	12.15	3.703

Minimum daily discharge, 2.2 ft³/s (0.062 m³/s) Dec. 16.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	3.0	3.1	2.6	2.6	16	6.6	3.3	3.3	2.6	2.6	3.3
2	3.1	3.0	3.4	3.1	2.8	11	6.9	3.3	3.3	2.6	2.6	3.3
3	3.1	3.0	3.7	3.1	2.6	23	6.9	3.3	3.3	2.6	2.6	3.7
4	3.1	3.0	3.2	3.1	3.1	14	5.8	3.3	3.3	2.6	2.6	4.4
5	3.1	3.0	2.8	3.1	3.9	12	6.6	3.3	3.3	2.5	2.6	5.0
6	3.0	2.9	2.8	3.1	30	11	6.1	3.3	3.3	2.5	2.6	4.1
7	3.0	2.9	2.6	3.1	33	10	6.3	3.7	3.3	2.5	2.9	4.1
8	2.9	2.9	2.5	2.9	134	8.1	5.3	3.7	3.3	2.5	2.9	4.3
9	2.8	2.9	2.5	2.6	130	8.1	4.3	3.7	3.3	2.3	2.6	4.3
10	2.7	2.9	3.1	2.8	30	7.5	4.6	3.7	3.4	2.3	2.6	400
11	2.7	2.9	3.9	3.1	13	7.5	4.6	3.7	4.4	2.3	2.6	200
12	2.7	2.9	3.7	2.9	11	7.2	4.1	3.7	4.1	2.3	2.9	20
13	2.7	2.9	3.3	3.1	10	7.2	4.3	3.6	3.7	2.3	2.8	3.7
14	2.7	2.9	2.6	3.1	10	8.1	4.3	3.5	3.2	2.3	2.8	3.2
15	2.7	2.9	2.3	2.9	10	7.8	5.1	3.3	2.8	2.3	2.8	3.3
16	3.1	2.9	2.2	3.3	10	6.1	5.6	3.3	2.8	2.3	2.8	3.3
17	3.1	2.9	2.9	3.3	10	5.6	4.8	3.3	2.8	2.3	2.8	3.5
18	3.0	2.9	2.9	2.8	11	5.3	4.6	3.3	2.8	3.9	2.9	3.7
19	3.0	2.9	2.5	3.1	9.8	6.1	4.8	3.3	2.8	3.4	2.9	4.0
20	3.0	2.9	2.9	2.9	10	6.1	5.1	3.3	2.7	3.0	2.9	4.4
21	3.0	2.9	2.8	2.9	9.8	6.1	4.8	3.3	2.7	3.0	2.9	5.0
22	3.0	2.9	2.8	3.1	8.1	5.8	4.6	3.3	2.7	2.8	2.9	5.6
23	3.0	2.9	2.8	3.1	7.5	6.6	4.8	3.3	2.7	2.5	3.1	5.8
24	3.0	2.9	2.9	3.5	7.5	7.2	4.3	3.3	2.7	2.4	3.1	6.1
25	3.0	2.9	2.9	3.3	7.2	7.2	3.9	3.3	2.6	2.7	3.1	6.6
26	3.0	2.9	2.9	3.3	6.6	7.2	3.5	3.3	2.9	2.6	3.1	4.7
27	3.0	2.9	2.8	2.8	6.3	7.2	3.7	3.3	3.1	2.5	3.1	4.2
28	3.0	2.9	2.8	2.6	5.8	7.2	3.7	3.3	3.4	2.5	3.1	3.8
29	3.0	2.9	2.8	2.8	6.1	6.6	3.7	3.3	3.2	2.5	3.1	3.7
30	3.0	3.0	2.6	2.6	---	6.6	3.5	3.3	2.6	2.5	3.3	3.6
31	3.0	---	2.5	3.3	---	6.6	---	3.3	---	2.5	3.3	---
TOTAL	91.6	87.6	89.5	93.3	541.7	262.0	147.2	105.2	93.8	79.9	88.9	734.7
MEAN	2.95	2.92	2.89	3.01	18.7	8.45	4.91	3.39	3.13	2.58	2.87	24.5
MAX	3.1	3.0	3.9	3.5	134	23	6.9	3.7	4.4	3.9	3.3	400
MIN	2.7	2.9	2.2	2.6	2.6	5.3	3.5	3.3	2.6	2.3	2.6	3.2
AC-FT	182	174	178	185	1070	520	292	209	186	158	176	1460
CAL YR 1975	TOTAL	1758.4	MEAN	4.82	MAX	71	MIN	2.2	AC-FT	3490		
WTR YR 1976	TOTAL	2415.4	MEAN	6.60	MAX	400	MIN	2.2	AC-FT	4790		

11063680 DEVIL CANYON CREEK NEAR SAN BERNARDINO, CA

LOCATION.--Lat 34°12'30", long 117°19'50", in Muscupiabe Grant, San Bernardino County, on left bank 0.6 mi (1.0 km) downstream from confluence of East and West Forks, and 7.5 mi (12.1 km) northwest of San Bernardino.

DRAINAGE AREA.--5.49 mi² (14.22 km²).

PERIOD OF RECORD.--November 1911 to September 1912, October 1913 to September 1914, December 1919 to current year. Monthly figures only for January 1914, published in WSP 1315-B.

GAGE.--Water-stage recorder on creek; flowmeter on diversion. Altitude of gage is 2,080 ft (634 m), from topographic map. Prior to December 1919, nonrecording gage at site 0.5 mi (0.8 km) downstream at different datum. December 1919 to July 1969, at site 0.4 mi (0.6 km) downstream at different datum. July 1969 to September 1972, present gage used as supplementary gage. Oct. 1, 1973, to Feb. 25, 1974, supplementary gage at site 0.5 mi (0.8 km) downstream at different datum.

REMARKS.--Records fair. No regulation above station. City of San Bernardino diverts above station for municipal supply. See schematic diagram of Santa Ana River basin.

COOPERATION.--Records of diversion were furnished by city of San Bernardino.

AVERAGE DISCHARGE.--Creek only: 57 years (water years 1914, 1921-76), 1.92 ft³/s (0.054 m³/s), 1,390 acre-ft/yr (1.71 hm³/yr).
Combined creek and diversion.--43 years (water years 1914, 1935-76), 3.57 ft³/s (0.10 m³/s), 2,590 acre-ft/yr (3.19 hm³/yr).

EXTREMES FOR PERIOD OF RECORD (1913-14 AND SINCE 1919).--Maximum discharge, 3,720 ft³/s (105 m³/s) Jan. 25, 1969, gage height, 5.40 ft (1.646 m), site and datum then in use, on basis of slope-area measurement of maximum flow; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 25 ft³/s (0.71 m³/s) and maximum (*) based on extension of rating curve above 30 ft³/s (0.85 m³/s) and indirect measurement made at 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)	
Feb. 8	2330	51	1.44	3.63	1.106	Sept. 11	0445	*334	9.46	4.92	1.500
Mar. 1	Unknown	39	1.10	3.50	1.067						

Minimum daily discharge, 0.50 ft³/s (0.014 m³/s) Aug. 30 to Sept. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.90	.99	2.5	1.8	2.1	17	4.2	2.6	1.2	.81	.82	.50
2	.90	.97	2.4	1.8	2.1	9.0	4.5	2.6	1.1	.95	.84	.51
3	.90	.92	2.5	1.8	2.1	5.6	4.2	2.6	1.1	.95	.84	.59
4	.90	.89	2.5	1.8	2.9	5.3	4.6	2.6	1.1	.93	.82	.56
5	.90	.78	2.5	1.8	3.5	5.3	4.5	2.6	1.1	.90	.81	.53
6	.90	.83	2.5	1.8	6.9	5.5	4.5	2.6	1.0	.87	.80	.56
7	.90	.92	2.5	2.0	8.3	5.3	4.5	3.2	1.0	.82	.72	.54
8	.90	.92	2.5	2.0	14	5.3	4.3	2.8	1.0	.82	.71	.53
9	.90	.85	2.5	2.0	23	5.3	4.1	2.5	1.1	.82	.69	.58
10	1.1	.89	2.5	2.0	9.6	5.1	4.0	2.5	1.3	.86	.66	9.5
11	1.0	.88	2.6	2.1	5.9	5.1	4.0	2.2	1.2	.88	.63	45
12	.90	.85	2.5	2.1	4.5	4.5	3.9	2.0	1.1	.90	.62	5.7
13	.90	.90	1.7	2.1	4.2	4.3	5.3	1.9	1.0	.93	.62	3.9
14	.90	.86	1.7	2.1	4.1	4.1	4.3	1.8	.97	.94	.62	2.8
15	.74	.87	1.6	2.2	3.9	3.9	5.6	1.7	.93	.99	.74	2.9
16	.90	.87	1.5	2.1	3.8	3.8	5.7	1.7	.97	1.0	.73	2.4
17	.98	.85	1.4	2.1	3.6	3.7	5.3	1.7	.97	.99	.70	2.0
18	1.0	.80	1.4	2.1	3.4	3.7	5.3	1.6	.96	1.0	.71	1.8
19	1.1	.79	1.4	2.0	3.4	3.7	5.1	1.6	.96	1.0	.70	2.2
20	1.2	.83	1.5	2.2	3.4	3.7	4.6	1.5	.90	1.0	.69	1.9
21	1.2	.94	1.6	2.1	3.3	3.7	4.0	1.5	.89	.99	.68	1.6
22	1.2	1.2	1.5	2.1	3.3	3.6	3.5	1.5	.90	1.0	.66	1.5
23	1.3	1.2	1.5	2.1	3.1	3.4	2.9	1.4	.82	1.0	.63	1.4
24	1.3	1.1	1.6	2.2	3.1	3.4	2.7	1.4	.79	.99	.61	1.7
25	1.2	1.2	1.6	2.2	3.0	3.3	2.7	1.4	.78	1.0	.60	2.0
26	1.2	1.2	1.6	2.2	3.1	3.3	3.1	1.3	.78	1.0	.59	1.7
27	1.1	2.2	1.6	2.1	3.0	3.3	3.2	1.3	.77	.90	.59	1.8
28	1.1	2.8	1.6	2.1	3.0	3.3	3.1	1.4	.75	.88	.56	1.5
29	1.1	2.6	1.6	2.1	3.0	3.2	3.2	1.5	.76	.87	.56	1.1
30	1.1	2.5	1.6	2.1	---	3.2	3.0	1.4	.78	.83	.50	.65
31	.99	---	1.6	2.1	---	3.2	---	1.3	---	.83	.50	---
TOTAL	31.61	34.40	59.6	63.3	142.6	146.1	123.9	59.7	28.98	28.65	20.95	99.95
MEAN	1.02	1.15	1.92	2.04	4.92	4.71	4.13	1.93	.97	.92	.68	3.33
MAX	1.3	2.8	2.6	2.2	23	17	5.7	3.2	1.3	1.0	.84	45
MIN	.74	.78	1.4	1.8	2.1	3.2	2.7	1.3	.75	.81	.50	.50
AC-FT	63	68	118	126	283	290	246	118	57	57	42	198
(a)	120	148	225	267	360	396	357	211	131	127	99	223
CAL YR 1975 TOTAL	838.89		MEAN 2.30	MAX 10	MIN .74	AC-FT 1660	AC-FT a 2,820					
WTR YR 1976 TOTAL	839.74		MEAN 2.29	MAX 45	MIN .50	AC-FT 1670	AC-FT a 2,660					

a Combined discharge, in acre-feet, of Devil Canyon Creek and city of San Bernardino diversion.

SANTA ANA RIVER BASIN

11065000 LYTLE CREEK AT COLTON, CA

LOCATION.--Lat 34°04'44", long 117°18'17", in San Bernardino Grant, San Bernardino County, on right bank 400 ft (122 m) downstream from Colton Avenue, 1,930 ft (588 m) upstream from outlet end of channel, and 1.3 mi (2.1 km) northeast of Colton.

DRAINAGE AREA.--172 mi² (445 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 974.67 ft (297.079 m) above mean sea level (Corps of Engineers bench mark).

REMARKS.--Records poor. Flow partly regulated by Lytle Creek spreading grounds 3.2 mi (5.1 km) upstream. Diversions above station for irrigation, power development, domestic use, and ground-water replenishment. See schematic diagram of Santa Ana River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft³/s (476 m³/s) Jan. 25, 1969, gage height, 13.6 ft (4.15 m), from floodmarks, from rating curve extended above 4,200 ft³/s (119 m³/s) on basis of discharge for design flood at gage height 21.4 ft (6.52 m); no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,170 ft³/s (33.1 m³/s) Sept. 11, gage height, 3.20 ft (0.975 m); no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	31	0	0	0			0
2	0	0	0	0	0	10	0	0	0			0
3	0	0	0	0	0	0	0	0	0			.03
4	0	0	0	0	.77	0	.16	0	0			0
5	0	0	0	0	.39	0	0	0	0			0
6	0	0	0	0	1.5	0	0	0	0			0
7	0	0	0	0	8.9	0	0	.31	0			0
8	0	0	0	0	101	0	0	0	0			0
9	0	0	0	0	112	0	0	0	0			0
10	0	0	0	0	9.1	0	0	0	.35			50
11	0	0	0	0	0	0	0	0	0			184
12	.18	0	.02	0	0	0	0	0	0			.38
13	0	0	0	0	0	0	1.2	0	0			0
14	0	0	0	0	0	0	0	0	0			0
15	0	0	0	0	0	0	0	0	0			0
16	0	0	0	0	0	0	0	0	0			0
17	0	0	0	0	0	0	0	0	0			0
18	0	0	0	0	0	0	0	0	0			0
19	0	0	0	0	0	0	0	0	0			0
20	0	0	.33	0	0	0	0	0	0			0
21	0	0	0	0	0	0	0	0	0			0
22	0	0	0	.39	0	0	0	0	0			0
23	0	0	0	0	0	0	0	0	0			0
24	0	0	0	0	0	0	0	0	0			18
25	0	0	0	0	0	0	0	0	0			.32
26	0	0	0	0	0	0	0	0	0			0
27	0	.25	0	0	0	0	0	0	0			0
28	0	.10	0	0	0	0	0	0	0			0
29	0	0	0	0	0	0	0	0	0			0
30	.20	0	0	0	---	0	0	0	0			0
31	.25	---	0	0	---	0	---	0	---			---
TOTAL	.63	.35	.35	.39	233.66	41	1.36	.31	.35	0	0	252.73
MEAN	.020	.012	.011	.013	8.06	1.32	.045	.010	.012	0	0	8.42
MAX	.25	.25	.33	.39	112	31	1.2	.31	.35	0	0	184
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	1.2	.7	.7	.8	463	81	2.7	.6	.7	0	0	501
CAL YR 1975	TOTAL	65.72	MEAN	.18	MAX	21	MIN	0	AC-FT	130		
WTR YR 1976	TOTAL	531.13	MEAN	1.45	MAX	184	MIN	0	AC-FT	1050		

11066440 SANTA ANA RIVER AT MISSION BOULEVARD, AT RIVERSIDE, CA

LOCATION.--Lat 33°59'28", long 117°23'36", in Jurupa Grant, Riverside County, near right bank on downstream end of pier of Mission Boulevard Bridge between Rubidoux and Riverside.

DRAINAGE AREA.--810 mi² (2,098 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 758.52 ft (231.197 m) above mean sea level.

REMARKS.--Records poor. This is a project station the purpose of which is to record surface flow entering Riverside narrows from upper Santa Ana River drainage. See schematic diagram of Santa Ana River basin.

AVERAGE DISCHARGE.--5 years, 8.17 ft³/s (0.231 m³/s), 5,920 acre-ft/yr (7.30 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 12,000 ft³/s (340 m³/s) Sept. 11, 1976, gage height, 12.60 ft (3.840 m), on basis of slope-conveyance measurement of maximum flow; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft³/s (14.2 m³/s) and maximum (*), on basis of slope-conveyance measurement of maximum 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)	
Feb. 8	2400	750	21.2	10.80	3.292	Sept. 11	0230	*12000	340	12.60	3.840
Mar. 1	1900	520	14.7	9.32	2.841	Sept. 24	2000	950	26.9	10.00	3.048
Mar. 3	0430	595	16.9	9.50	2.896						

Minimum daily discharge, no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	99	.18	0	.06	.53		0
2					0	51	.27	0	.19	.26		0
3					0	157	.38	0	.21	.21		0
4					0	0	.71	0	.20	.16		0
5					0	0	.88	.01	.17	.10		0
6					0	0	.68	.09	.12	.13		0
7					38	0	.70	.22	.18	.14		0
8					116	0	.57	.01	.23	.12		0
9					373	0	.70	0	.26	.11		0
10					13	0	.90	0	.30	.13		355
11					0	0	.84	0	.16	.11		2450
12					0	0	.54	0	0	.07		.88
13					0	0	4.7	0	0	.15		0
14					0	0	.17	0	0	.09		0
15					0	0	.87	0	0	.10		0
16					0	0	.17	.01	0	.10		0
17					0	0	.04	.01	0	0		0
18					0	0	.03	.02	0	0		0
19					0	0	.01	.03	.18	0		0
20					0	.10	0	.03	.28	0		0
21					0	.11	.03	.05	.27	0		0
22					0	.04	.04	.02	.46	0		0
23					0	.43	.03	.03	.53	0		0
24					0	.16	.04	.05	.64	0		48
25					0	.01	.02	.05	.58	0		.04
26					0	.17	.03	.02	.52	0		0
27					0	.18	.08	.03	.38	0		0
28					0	.07	.04	.06	.30	0		0
29					0	0	.06	.04	.35	0		0
30					---	.03	.04	.03	.49	0		0
31		---			---	.09	---	.02	---	0		---
TOTAL	0	0	0	0	540	308.39	13.75	.83	7.06	2.51	0	2853.92
MEAN	0	0	0	0	18.6	9.95	.46	.027	.24	.081	0	95.1
MAX	0	0	0	0	373	157	4.7	.22	.64	.53	0	2450
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	1070	612	27	1.6	14	5.0	0	5660
CAL YR 1975	TOTAL	373.67	MEAN	1.02	MAX	234	MIN	0	AC-FT	741		
WTR YR 1976	TOTAL	3726.46	MEAN	10.2	MAX	2450	MIN	0	AC-FT	7390		

SANTA ANA RIVER BASIN

11066460 SANTA ANA RIVER AT MWD CROSSING, NEAR ARLINGTON, CA

LOCATION.--Lat 33°58'04", long 117°26'46", in NE¼NE¼SW¼ sec. 30, T.2 S., R.5 W., Riverside County, on left bank 300 ft (91 m) upstream from MWD crossing, 0.7 mi (1.1 km) downstream from Union Pacific Railroad bridge, 1.2 mi (1.9 km) upstream from bridge on Van Buren Boulevard, and 3.3 mi (5.3 km) north of Arlington.
 DRAINAGE AREA.--854 mi² (2,112 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder and concrete low-flow control. Altitude of gage is 685 ft (209 m), from topographic map.

REMARKS.--Records good below 100 ft³/s (2.83 m³/s) and poor above. Flow partly regulated by Big Bear Lake (station 11049000). Natural streamflow affected by ground-water withdrawals, diversions for irrigation, and return flows from irrigated areas. The records at this station are equivalent to those collected at 11066500 Santa Ana River at Riverside Narrows, near Arlington minus the flow at 11066480 Riverside Water Quality Control Plant at Riverside Narrows, near Arlington. See schematic diagram of Santa Ana River basin.

AVERAGE DISCHARGE.--6 years, 35.5 ft³/s (1.005 m³/s), 25,720 acre-ft/yr (31.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,520 ft³/s (270 m³/s) Sept. 11, 1976, gage height, 12.92 ft (3.938 m), from rating extended above 3600 ft³/s (102 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 16 ft³/s (0.45 m³/s) Aug. 18, 19, 1973.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1927, 100,000 ft³/s (2,830 m³/s) Mar. 2, 1938, on basis of slope-area measurement at site 1.2 mi (1.9 km) downstream.

Flood of Jan. 22, 1862, 320,000 ft³/s (9,060 m³/s), by slope-conveyance measurement at site 8.1 mi (13.0 km) upstream. Stage at that site was 5 ft (2 m) higher than Mar. 2, 1938.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 500 ft³/s (14.2 m³/s) and maximum (*), from rating curve extended above 3,600 ft³/s (102 m³/s) on basis of slope-area measurement of maximum flow:

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Feb. 9	0315	1120	31.7	10.45	3.185
Sept. 11	0430	*9520	270	12.92	3.938

Minimum daily discharge, 19 ft³/s (0.54 m³/s) July 24, 31, Aug. 1, 4, 6, 13, 15, 22, 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	24	25	27	28	109	29	25	26	23	19	21
2	21	23	25	28	29	81	28	24	29	22	20	21
3	21	23	25	29	28	154	28	26	26	22	20	22
4	21	23	25	28	36	44	54	25	27	22	19	21
5	21	23	25	27	46	37	36	26	26	22	21	21
6	22	23	25	28	66	34	31	27	28	22	19	22
7	21	23	25	28	102	31	30	42	26	22	21	22
8	21	23	25	28	98	31	30	30	26	22	20	22
9	22	23	25	27	567	30	30	30	28	23	22	23
10	22	23	25	28	131	30	28	29	29	23	22	120
11	23	24	26	28	70	31	28	29	28	23	21	2890
12	22	25	37	28	50	32	29	29	26	23	20	107
13	22	29	32	28	45	30	74	28	26	23	19	40
14	22	24	29	29	42	28	38	29	29	22	20	35
15	22	25	32	29	40	29	38	28	26	22	19	30
16	22	24	28	28	37	29	35	25	28	22	20	26
17	22	24	27	28	36	28	32	26	26	20	21	23
18	22	24	28	27	34	27	31	28	24	20	22	22
19	22	23	27	26	33	27	30	26	25	20	21	23
20	23	25	43	27	32	27	29	26	25	21	21	24
21	24	24	31	28	32	27	27	26	24	21	20	24
22	23	24	29	29	32	27	28	27	24	21	19	25
23	22	24	30	27	31	28	28	25	24	21	20	25
24	22	24	28	28	31	29	27	25	24	19	20	69
25	22	23	26	27	31	29	28	26	24	20	21	58
26	22	23	27	27	31	32	26	26	23	21	21	36
27	22	25	27	28	31	32	26	30	23	21	22	31
28	22	35	28	27	30	32	27	28	23	20	21	29
29	22	26	28	27	30	31	29	26	23	20	21	27
30	24	25	27	29	---	31	27	27	23	20	19	25
31	24	---	27	28	---	31	---	26	---	19	21	---
TOTAL	684	731	867	861	1829	1198	961	850	769	662	632	3884
MEAN	22.1	24.4	28.0	27.8	63.1	38.6	32.0	27.4	25.6	21.4	20.4	129
MAX	24	35	43	29	567	154	74	42	29	23	22	2890
MIN	21	23	25	26	28	27	26	24	23	19	19	21
AC-FT	1360	1450	1720	1710	3630	2380	1910	1690	1530	1310	1250	7700
CAL YR 1975	TOTAL	10226	MEAN 28.0	MAX 671	MIN 19	AC-FT 20280						
WTR YR 1976	TOTAL	13928	MEAN 38.1	MAX 2890	MIN 19	AC-FT 27630						

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970 to current year.

CHEMICAL ANALYSES: Water years 1970 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1969 to current year.

INSTRUMENTATION.--Specific conductance recorder since October 1969.

REMARKS.--Periods of missing specific conductance record due to poor flow communication at probe or recorder malfunction.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,320 micromhos Nov. 4, 1969; minimum, 95 micromhos Nov. 27, 1970.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,190 micromhos Nov. 13; minimum recorded, 186 micromhos Mar. 1.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)
OCT							
01...	0900	21	1100	18.5	708	.96	40.1
16...	1340	22	1120	23.0	702	.95	41.7
NOV							
04...	1350	24	1110	22.0	692	.94	44.8
17...	0900	25	1080	16.5	669	.91	45.2
DEC							
01...	1000	24	1110	15.8	689	.94	44.6
17...	1100	27	1090	16.2	686	.93	50.0
30...	0900	27	1110	14.8	705	.96	51.4
JAN							
07...	0900	27	1100	14.0	707	.96	51.5
20...	1115	29	1110	17.0	702	.95	55.0
FEB							
02...	0950	29	1090	15.2	697	.95	54.6
10...	1515	76	845	--	459	.62	94.2
12...	1330	47	1020	19.0	622	.85	78.9
20...	1100	32	1130	17.0	699	.95	60.4
MAR							
02...	0930	47	886	15.2	561	.76	71.2
16...	0925	28	1100	17.8	694	.94	52.5
25...	1005	29	1110	17.9	705	.96	55.2
31...	1115	32	1080	22.0	694	.94	60.0
APR							
01...	0845	29	1070	17.2	675	.92	52.9
14...	0830	35	1050	16.6	656	.89	62.0
MAY							
05...	0955	27	1100	17.8	703	.96	51.2
07...	1000	60	766	17.2	482	.66	78.1
11...	1000	30	1060	--	670	.91	54.3
20...	0830	26	1070	17.0	712	.97	50.0
JUN							
02...	1000	31	1060	20.7	652	.89	54.6
17...	0900	27	1060	19.7	700	.95	51.0
JUL							
01...	0830	23	1080	20.0	736	1.00	45.7
13...	0900	24	1060	20.6	664	.90	43.0
AUG							
02...	1100	21	1110	22.0	705	.96	40.2
16...	1030	20	1100	20.5	705	.96	38.1
SEP							
01...	1230	20	1100	25.0	710	.97	38.3

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

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1110	1090	1100	1120	1110	1120	---	---	---	1110	1100	1100
2	1110	1090	1100	1120	1110	1120	---	---	---	1100	1080	1090
3	1100	1090	1100	1130	1110	1120	---	---	---	1100	1070	1080
4	1110	1090	1100	1120	1110	1120	---	---	---	1110	1080	1090
5	1110	1090	1100	1130	1110	1120	---	---	---	1110	1090	1100
6	1110	1090	1100	1130	1110	1120	---	---	---	1110	1090	1100
7	1110	1100	1110	1140	1120	1130	---	---	---	1110	1090	1100
8	1130	1100	1110	1130	1120	1130	---	---	---	1110	1090	1100
9	1130	1100	1110	1130	1120	1120	---	---	---	1110	1100	1100
10	1120	1110	1110	1130	1120	1120	---	---	---	1100	1090	1100
11	1120	1090	1110	1130	1100	1120	---	---	---	1110	1090	1100
12	1120	1100	1110	1120	1030	1090	---	---	---	1090	1040	1070
13	1120	1110	1110	1190	1030	1120	---	---	---	1090	1040	1050
14	1120	1100	1120	1130	1110	1120	---	---	---	1080	1040	1060
15	1120	1110	1110	1120	1070	1090	---	---	---	1090	1060	1080
16	1120	1110	1120	1120	1100	1110	---	---	---	1080	1070	1080
17	1120	1110	1110	1120	1080	1110	1100	1080	1090	1100	1060	1080
18	1120	1110	1110	1130	1100	1110	1100	1080	1090	1110	1090	1100
19	1120	1100	1110	1120	1070	1100	1090	1060	1080	1130	1110	1120
20	1120	1110	1110	1110	1050	1080	1080	482	960	1120	1110	1110
21	---	---	---	1080	1060	1070	1080	1020	1060	1100	1090	1100
22	---	---	---	1130	1060	1090	1090	1070	1080	1110	1050	1090
23	1120	1100	1110	1130	1070	1110	1100	1060	1100	1100	1080	1100
24	1120	1110	1120	1130	1060	1110	1110	1080	1100	1110	1090	1100
25	1120	1120	1120	1130	1110	1120	1120	1100	1100	1120	1100	1110
26	1130	1120	1120	1120	1110	1120	1100	1090	1110	1110	1100	1110
27	1130	1110	1120	1120	1020	1100	1120	1100	1120	1110	1090	1100
28	1130	1120	1120	1100	772	974	1110	1100	1110	1110	1090	1100
29	1120	1100	1110	1120	993	1090	1110	1090	1110	1120	1100	1110
30	1120	1020	1100	---	---	---	1120	1110	1110	1110	1060	1100
31	1120	1100	1110	---	---	---	1120	1110	1110	1100	1090	1100
MONTH	1130	1020	1110	1190	772	1110	---	---	---	1130	1040	1090
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1100	1080	1090	1110	186	693	1100	1070	1090	1130	1080	1110
2	1110	1090	1100	1030	238	811	1120	1040	1080	1140	1100	1110
3	---	---	---	630	238	477	1090	1040	1060	1130	1100	1110
4	---	---	---	942	646	821	1040	374	830	1120	1090	1110
5	---	---	---	1010	942	961	1060	788	997	1120	1100	1110
6	---	---	---	1040	1020	1030	1080	936	1060	1120	1040	1090
7	---	---	---	---	---	---	1090	1040	1060	1050	341	885
8	---	---	---	---	---	---	1070	1040	1060	1110	1040	1080
9	---	---	---	---	---	---	1090	1040	1060	1120	1060	1090
10	---	---	---	---	---	---	1100	1060	1070	1100	1070	1090
11	---	---	---	---	---	---	1080	1050	1070	1080	1060	1070
12	---	---	---	---	---	---	1070	1010	1050	1100	1060	1080
13	---	---	---	---	---	---	977	379	717	1100	1060	1080
14	---	---	---	---	---	---	1050	892	1020	1120	1070	1090
15	1130	1110	1120	---	---	---	1040	888	1000	1130	1100	1120
16	1140	1120	1130	---	---	---	1060	1010	1040	1130	1100	1110
17	1130	1120	1130	---	---	---	1090	1040	1060	1130	1100	1120
18	1130	1120	1120	---	---	---	1080	1050	1060	1170	1080	1110
19	1130	1110	1120	1100	1080	1090	1100	1050	1080	1140	1080	1100
20	1130	1120	1120	1090	1070	1080	1120	1070	1100	1100	1060	1090
21	1120	1110	1120	1100	1060	1080	1090	1070	1080	1100	1060	1080
22	1120	1110	1120	1110	1070	1090	1090	1030	1070	1110	1040	1080
23	1120	1110	1110	1100	1080	1090	1110	1070	1090	1110	1070	1090
24	1120	1100	1110	1080	1060	1080	1130	1080	1100	1100	1080	1090
25	1110	1100	1110	1110	1080	1070	1130	1080	1100	1110	1070	1090
26	1110	1100	1110	1120	1080	1100	1130	1090	1100	1090	1050	1070
27	1110	1100	1110	1130	1090	1100	1110	1080	1100	1090	1050	1070
28	1110	1100	1110	1150	1100	1120	1120	1100	1110	1090	1070	1080
29	1110	1090	1110	1150	1090	1120	1120	1080	1100	1100	1070	1080
30	---	---	---	1120	1070	1100	1130	1070	1100	1090	1070	1080
31	---	---	---	---	---	---	---	---	---	1110	1080	1090
MONTH	---	---	---	---	---	---	1130	374	1050	1170	341	1090

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

WATER-QUALITY RECORDS

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

CHEMICAL ANALYSES: Water year 1970 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1969 to current year.

INSTRUMENTATION.--Specific conductance recorder since October 1969.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,740 micromhos Oct. 29, 1971; minimum, 672 micromhos May 5, 1971.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,230 micromhos Aug. 13; minimum, 774 micromhos Feb. 9.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)
OCT							
01...	1020	35	1060	26.5	645	.88	61.0
16...	1320	33	1050	27.0	627	.85	55.9
NOV							
04...	1320	34	1050	25.0	611	.83	56.1
17...	1000	36	1020	22.5	597	.81	58.0
DEC							
01...	1200	39	929	21.0	561	.76	59.1
17...	1140	36	1010	20.8	616	.84	59.9
29...	1545	33	1030	20.0	609	.83	54.3
JAN							
07...	0900	29	1040	18.0	634	.86	49.6
20...	1045	36	963	19.8	585	.80	56.9
FEB							
03...	1100	38	957	20.8	579	.79	59.4
18...	1100	43	961	21.8	555	.75	64.4
MAR							
01...	1100	39	936	20.8	559	.76	58.9
16...	1000	38	970	21.8	574	.78	58.9
APR							
01...	0800	22	1110	21.5	669	.91	39.7
14...	0900	35	1020	21.8	600	.82	56.7
MAY							
04...	1200	38	1040	24.2	625	.85	64.1
20...	1000	24	1020	22.8	632	.86	41.0
JUN							
02...	1115	37	1020	25.8	582	.79	58.1
22...	1145	38	1020	25.8	626	.85	64.2
JUL							
02...	0920	34	1090	26.0	658	.89	60.4
13...	1100	36	1040	27.5	618	.84	60.1
AUG							
02...	1150	40	1020	27.5	608	.83	65.7
16...	1040	34	953	27.0	593	.81	54.9
SEP							
01...	1340	41	1110	28.8	677	.92	74.9

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

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1120	1040	1070	1080	1000	1050	1060	924	1000	1180	1080	1130
2	1080	1010	1050	1090	999	1050	1070	986	1030	1120	1020	1070
3	1080	1020	1060	1150	1040	1090	1090	1000	1040	1120	1060	1090
4	1070	996	1040	1140	1040	1100	1090	1020	1050	1090	1020	1050
5	1050	968	1020	1140	1040	1090	1110	1030	1070	1040	948	1000
6	1080	982	1040	1130	1060	1100	1110	1010	1070	1070	1030	1050
7	1080	1010	1050	1110	1020	1070	1080	1000	1060	1060	1020	1040
8	1080	1000	1040	1080	1020	1050	1070	1030	1060	1090	1010	1040
9	1080	968	1010	1060	1000	1040	1110	1000	1040	1080	1030	1070
10	1160	1070	1110	1080	1000	1050	1090	1030	1070	1060	1010	1030
11	1150	1050	1100	1110	1020	1060	1120	1030	1080	1020	948	988
12	1100	1040	1080	1120	1040	1080	1110	1010	1050	1050	935	986
13	1140	1010	1060	1160	1060	1110	1060	956	1000	1110	1030	1070
14	1130	1040	1080	1160	1090	1140	1030	956	994	1110	1040	1080
15	1080	1020	1060	1150	1060	1110	1060	964	1020	1120	982	1050
16	1130	1050	1090	1100	1030	1070	1110	1010	1050	1130	1030	1070
17	1160	1100	1140	1110	1020	1070	1080	1010	1050	1080	999	1040
18	1160	1090	1130	1110	1040	1070	1070	1000	1040	1040	978	1020
19	1090	1010	1050	1100	1020	1050	1070	1000	1030	1040	949	997
20	1050	964	1020	1070	1000	1040	1010	933	976	1040	958	1000
21	1070	977	1020	1090	1020	1060	998	938	977	1020	967	995
22	1060	997	1030	1100	1000	1050	1070	971	1010	1050	961	1000
23	1110	1020	1060	1080	1010	1050	1100	1020	1070	1090	1020	1040
24	1110	1040	1080	1140	1030	1080	1090	1010	1050	1030	967	1010
25	1140	1060	1100	1140	1070	1110	1060	1020	1050	1010	932	980
26	1120	1050	1100	1080	1030	1050	1120	1020	1060	1000	902	957
27	1110	1050	1090	1050	1000	1020	1120	1070	1100	1080	979	1020
28	1140	1050	1090	1070	966	1010	1070	1020	1050	1080	828	1040
29	1140	1050	1090	1090	1040	1070	1130	1010	1060	1070	994	1040
30	1100	997	1040	1090	1020	1070	1170	1080	1120	1110	1060	1090
31	1110	1040	1080	---	---	---	1200	1110	1160	1100	998	1050
MONTH	1160	964	1070	1160	966	1070	1200	924	1050	1180	828	1040
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	995	923	961	976	928	961	1140	1050	1110	1080	998	1040
2	1000	891	945	998	938	965	1140	1040	1090	1080	987	1040
3	1060	952	998	1010	951	984	1090	1030	1070	1110	1010	1060
4	1040	985	1000	1020	971	992	1080	1020	1050	1100	1040	1080
5	1000	947	972	997	957	986	1040	963	1000	1040	991	1030
6	1010	966	989	994	938	974	1030	963	1000	1030	970	1000
7	965	885	916	956	894	929	1030	967	999	1050	986	1020
8	909	833	882	1010	906	949	1050	954	999	1040	925	977
9	910	774	837	1010	933	975	1110	1000	1050	1010	930	975
10	1000	907	949	1000	949	968	1100	1020	1060	1010	931	986
11	1000	963	988	951	903	928	1050	965	1010	1020	967	1000
12	1020	978	999	998	930	964	1060	943	997	1090	960	1020
13	1020	973	1010	992	922	955	1070	1020	1050	1110	1010	1070
14	1000	963	985	992	900	948	1050	984	1030	1150	1050	1110
15	982	922	953	999	835	956	1060	986	1020	1140	1080	1120
16	941	889	924	1020	965	993	1090	1010	1050	1100	1000	1040
17	999	895	947	1010	942	980	1090	1020	1060	1050	944	1000
18	1040	960	1000	1020	962	995	1050	994	1030	1050	977	1020
19	1020	981	1000	1050	993	1020	1100	1000	1050	1060	979	1030
20	1020	972	996	1010	931	966	1100	1020	1070	1130	1000	1060
21	1030	968	995	1000	896	948	1080	1010	1050	1140	1040	1090
22	1000	945	981	1030	917	976	1110	1010	1060	1080	959	1010
23	990	934	972	1080	981	1030	1120	1030	1070	1010	913	972
24	1040	989	1010	1080	994	1030	1060	977	1020	1070	937	1010
25	1020	974	999	1050	971	1010	1030	969	1000	1100	1010	1060
26	1020	947	982	1030	971	1010	1040	928	993	1110	1010	1060
27	1020	969	998	1060	974	1020	1050	978	1020	1070	974	1020
28	1010	954	993	1060	1000	1050	1070	995	1040	1040	994	1020
29	1000	951	986	1050	965	1020	1050	981	1020	1050	993	1020
30	---	---	---	1130	1010	1070	1080	1020	1050	991	929	965
31	---	---	---	1140	1060	1110	---	---	---	1010	953	982
MONTH	1060	774	971	1140	835	989	1140	928	1040	1150	913	1030

SANTA ANA RIVER BASIN

11067890 SANTA ANA RIVER AT PRADO PARK, NEAR CORONA, CA

LOCATION.--Lat 33°55'42", long 117°35'44", in Jurupa Grant, Riverside County, in Prado Park on right bank 0.4 mi (0.6 km) upstream from Auburndale Bridge, and 4.1 mi (6.6 km) northwest of Corona.

DRAINAGE AREA.--1,010 mi² (2,616 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1971 to current year. Records May 1930 to November 1966 (irrigation seasons only), October 1966 to September 1968 at site 0.4 mi (0.6 km) downstream (at Auburndale Bridge, station 11068000), equivalent if diversion to Durkee ditch added.

GAGE.--Water-stage recorder. Altitude of gage is 560 ft (171 m), from topographic map.

REMARKS.--Records good below 100 ft³/s (2.83 m³/s) and poor above. Flow partly regulated by Big Bear Lake (station 11049000). Natural streamflow affected by ground-water withdrawals, diversions for irrigation, and return flows from irrigated areas. See schematic diagram of Santa Ana River basin.

AVERAGE DISCHARGE.--5 years, 55.0 ft³/s (1.558 m³/s), 39,850 acre-ft/yr (49.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 5,400 ft³/s (153 m³/s) Feb. 11, 1973, by flood routing; minimum daily, 10 ft³/s (0.28 m³/s) Aug. 7, Sept. 23, 1971.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft³/s (14.2 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)	
Feb. 9	0815	1530	43.3	5.50	1.676	Sept. 11	1500	*3390	96.0	6.80	2.073
Mar. 1	1745	656	18.6	4.33	1.320	Sept. 25	0145	609	17.2	4.15	1.265
Mar. 3	0345	636	18.0	4.30	1.311						

Minimum daily discharge, 16 ft³/s (0.45 m³/s) Aug. 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	33	41	41	44	194	44	43	42	21	25	19
2	35	31	43	42	46	138	36	41	42	18	25	21
3	32	31	42	47	50	234	36	42	43	17	26	21
4	29	35	44	46	55	73	52	42	41	21	23	21
5	33	34	43	46	73	63	69	43	40	22	16	25
6	35	37	41	44	109	55	37	45	39	26	17	26
7	37	35	40	43	214	49	35	77	45	26	19	28
8	30	33	40	43	217	50	38	56	42	25	17	25
9	29	38	41	42	913	52	35	48	41	23	21	20
10	31	35	40	41	245	58	36	47	46	19	33	142
11	27	36	42	44	110	61	36	45	47	21	29	1530
12	30	39	45	47	99	61	36	44	43	19	25	370
13	31	40	80	46	95	52	94	44	38	20	25	113
14	28	35	67	46	86	50	66	42	43	22	30	89
15	26	32	61	47	78	56	52	40	38	23	29	81
16	34	36	53	48	85	52	49	35	38	24	28	81
17	29	35	52	48	88	53	48	36	37	22	27	77
18	31	35	50	48	78	53	47	35	37	22	29	75
19	35	38	47	48	76	53	47	34	34	29	30	77
20	27	43	49	49	76	63	46	35	27	26	46	73
21	32	44	82	48	71	53	46	35	26	26	39	77
22	31	41	59	50	66	50	44	34	28	25	30	79
23	34	39	57	49	71	52	44	40	26	27	31	83
24	36	38	55	48	75	58	39	49	24	23	27	93
25	27	51	53	47	71	55	42	60	25	19	23	145
26	32	37	52	48	75	53	43	48	22	24	23	63
27	32	38	52	48	71	51	43	35	22	25	22	58
28	34	63	50	49	71	49	48	36	21	22	18	50
29	36	58	44	49	71	54	44	34	18	21	21	53
30	31	42	43	49	---	58	47	29	22	22	19	58
31	35	---	44	47	---	52	---	28	---	24	18	---
TOTAL	982	1162	1552	1438	3479	2105	1379	1302	1037	704	791	3673
MEAN	31.7	38.7	50.1	46.4	120	67.9	46.0	42.0	34.6	22.7	25.5	122
MAX	37	63	82	50	913	234	94	77	47	29	46	1530
MIN	26	31	40	41	44	49	35	28	18	17	16	19
AC-FT	1950	2300	3080	2850	6900	4180	2740	2580	2060	1400	1570	7290
CAL YR 1975	TOTAL	17063	MEAN 46.7	MAX 380	MIN 22	AC-FT 33840						
WTR YR 1976	TOTAL	19604	MEAN 53.6	MAX 1530	MIN 16	AC-FT 38880						

11067890 SANTA ANA RIVER AT PRADO PARK NEAR CORONA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1975 to current year.
 SEDIMENT RECORDS: February 1976 to September 1976.

REMARKS.--Partial record for suspended sediment with insufficient data for total load computations in 1976 water year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATION: Maximum daily mean, 8,820 mg/l Sept. 11, 1976; minimum daily mean, 20 mg/l July 15, 1976.
 SEDIMENT DISCHARGE: Maximum daily, 46,800 tons (42,500 tonnes) Sept. 11, 1976; minimum daily, 1.2 tons (1.1 tonnes) July 15, 1976.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 8,820 mg/l Sept. 11; minimum daily mean, 20 mg/l July 15.
 SEDIMENT DISCHARGE: Maximum daily, 46,800 tons (42,500 tonnes) Sept. 11; minimum daily, 1.2 tons (1.1 tonnes) July 15.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.5	---	15.5	---	---	---	---	---	23.0	19.5	---	---
2	---	---	---	---	14.0	14.0	---	---	---	---	28.0	22.0
3	---	20.5	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	26.5	---
5	---	---	---	---	14.0	---	---	19.0	27.0	---	---	---
6	---	---	---	---	14.0	---	---	---	---	---	28.0	---
7	---	---	---	14.0	---	---	---	---	---	22.5	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	12.0	---	---	---	26.0	32.0	---	---
10	---	---	---	---	12.5	---	---	---	---	---	28.0	---
11	---	---	---	---	---	---	---	---	26.5	---	---	20.5
12	---	---	---	---	---	---	---	---	---	---	---	20.5
13	---	---	---	---	---	---	16.0	---	---	25.0	---	24.5
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	21.0	---	---	20.0	22.5	---	---
16	18.5	---	---	---	---	---	---	---	---	---	---	---
17	---	17.0	---	---	---	---	---	---	---	19.5	19.5	---
18	---	---	8.5	---	18.5	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	15.5	---	---	---	28.0	---	---	27.5	---
21	---	---	---	---	---	---	---	---	---	24.5	---	---
22	---	---	---	---	---	---	19.0	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	26.0	28.5	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	19.5	---	---	---	---
28	---	---	---	---	---	---	---	---	---	30.5	---	20.0
29	---	---	13.5	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	20.0
31	---	---	---	---	---	23.5	---	---	---	29.5	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

SANTA ANA RIVER BASIN

11067890 SANTA ANA RIVER AT PRADO PARK NEAR CORONA, CA--Continued

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

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				44	100	12	194	1270	1470
2				46	115	14	138	1410	740
3				50	125	17	234	2080	1840
4				55	135	20	73	900	177
5				73	150	30	63	500	85
6				109	397	125	55	250	37
7				214	1450	1080	49	250	33
8				217	800	717	50	250	34
9				913	6120	17200	52	250	35
10				245	2320	1790	58	250	39
11				110	114	135	61	250	41
12				99	130	35	61	250	41
13				95	150	38	52	250	35
14				86	170	39	50	250	34
15				78	190	40	56	249	38
16				85	220	50	52	245	34
17				88	250	59	53	240	34
18				78	278	59	53	236	34
19				76	260	53	53	232	33
20				76	240	49	63	227	39
21				71	230	44	53	223	32
22				66	220	39	50	219	30
23				71	210	40	52	215	30
24				75	200	40	58	211	33
25				71	190	36	55	206	31
26				75	180	36	53	202	29
27				71	170	33	51	198	27
28				71	160	31	49	194	26
29				71	150	29	54	190	28
30				---	---	---	58	185	29
31				---	---	---	52	181	25
TOTAL				3479	---	21890	2105	---	5173
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	44	175	21	43	311	36	42	145	16
2	36	170	17	41	308	34	42	131	15
3	36	165	16	42	306	35	43	117	14
4	52	347	86	42	303	34	41	103	11
5	69	778	152	43	301	35	40	89	9.6
6	37	450	45	45	300	36	39	92	9.7
7	35	350	33	77	879	237	45	95	12
8	38	300	31	56	600	91	42	99	11
9	35	200	19	48	400	52	41	102	11
10	36	150	15	47	300	38	46	75	9.3
11	36	130	13	45	200	24	47	50	6.3
12	36	120	12	44	177	21	43	65	7.5
13	94	1100	323	44	166	20	38	80	8.2
14	66	625	111	42	155	18	43	95	11
15	52	600	84	40	144	16	38	110	11
16	49	400	53	35	133	13	38	69	7.1
17	48	350	45	36	122	12	37	69	6.9
18	47	343	44	35	110	10	37	68	6.8
19	47	340	43	34	99	9.1	34	68	6.2
20	46	338	42	35	88	8.3	27	67	4.9
21	46	335	42	35	86	8.1	26	67	4.7
22	44	333	40	34	84	7.7	28	40	3.0
23	44	330	39	40	82	8.9	26	21	1.5
24	39	328	35	49	80	11	24	28	1.8
25	42	326	37	60	350	57	25	36	2.4
26	43	323	38	48	280	36	22	45	2.7
27	43	321	37	35	185	17	22	55	3.3
28	48	318	41	36	130	13	21	65	3.7
29	44	316	38	34	100	9.2	18	70	3.4
30	47	313	40	29	80	6.3	22	68	4.0
31	---	---	---	28	70	5.3	---	---	---
TOTAL	1379	---	1592	1302	---	958.9	1037	---	225.0

11067890 SANTA ANA RIVER AT PRADO PARK NEAR CORONA, CA--Continued

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

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	21	64	3.6	25	52	3.5	19	55	2.8
2	18	52	2.5	25	40	2.7	21	60	3.4
3	17	40	1.8	26	35	2.5	21	55	3.1
4	21	87	4.9	23	29	1.8	21	50	2.8
5	22	133	7.9	16	31	1.3	25	60	4.1
6	26	180	13	17	34	1.6	26	50	3.5
7	26	227	16	19	39	2.0	28	45	3.4
8	25	133	9.0	17	44	2.0	25	43	2.9
9	23	39	2.4	21	49	2.8	20	40	2.2
10	19	36	1.8	33	54	4.8	142	2290	2140
11	21	34	1.9	29	55	4.3	1530	8820	46800
12	19	31	1.6	25	56	3.8	370	3880	5540
13	20	28	1.5	25	57	3.8	113	396	121
14	22	24	1.4	30	51	4.1	89	353	85
15	23	20	1.2	29	45	3.5	81	310	68
16	24	50	3.2	28	40	3.0	81	267	58
17	22	73	4.3	27	45	3.3	77	224	47
18	22	82	4.9	29	50	3.9	75	181	37
19	29	90	7.0	30	56	4.5	77	138	29
20	26	99	6.9	46	62	7.7	73	251	49
21	26	108	7.6	39	60	6.3	77	274	57
22	25	98	6.6	30	59	4.8	79	298	64
23	27	88	6.4	31	57	4.8	83	322	72
24	23	77	4.8	27	55	4.0	93	346	87
25	19	67	3.4	23	50	3.1	145	2140	1670
26	24	56	3.6	23	45	2.8	63	900	153
27	25	46	3.1	22	50	3.0	58	800	125
28	22	35	2.1	18	55	2.7	50	699	94
29	21	45	2.6	21	55	3.1	53	620	89
30	22	55	3.3	19	56	2.9	58	561	88
31	24	63	4.1	18	50	2.4	---	---	---
TOTAL	704	---	144.4	791	---	106.8	3673	---	57501.2
YEAR 19604.0			87591.3						

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

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN				
						.002 MM	.004 MM	.008 MM	.016 MM	.031 MM
FEB										
06...	1145	14.0	155	620	259	30	39	45	48	49
09...	1130	12.0	1010	7610	20800	41	58	76	87	90
10...	0945	12.5	210	2350	1330	34	51	66	76	81
SEP										
11...	0900	20.5	742	9320	18700	39	55	74	87	90
11...	1330	19.5	1672	13400	60500	49	64	86	93	97
11...	1545	19.5	2689	15900	115000	49	64	85	94	96
12...	1200	20.5	209	2940	1660	35	54	71	83	86
13...	1415	24.5	113	396	121	37	46	58	70	77
28...	1045	20.0	37	699	70	34	47	58	70	77
DATE		.062 MM	.062 MM	.125 MM	.125 MM	.250 MM	.250 MM	.500 MM	.500 MM	1.00 MM
FEB										
06...		49	--	51	--	78	--	99	--	100
09...		93	--	96	--	99	--	100	--	--
10...		85	--	90	--	96	--	100	--	--
SEP										
11...		91	--	92	--	97	--	100	--	--
11...		97	--	98	--	99	--	100	--	--
11...		97	--	98	--	99	--	100	--	--
12...		87	--	89	--	96	--	100	--	--
13...		--	82	--	85	--	96	--	100	--
28...		79	--	81	--	90	--	99	--	100

SANTA ANA RIVER BASIN

11069000 LAKE HEMET NEAR IDYLLWILD, CA

LOCATION.--Lat 33°39'56", long 116°42'19", in SE¼SW¼NE¼ sec.7, T.6 S., R.3 E., Riverside County, on upstream face near right end of dam on South Fork San Jacinto River, 5 mi (8 km) southeast of Idyllwild, and 6.5 mi (10.5 km) upstream from mouth.

DRAINAGE AREA.--65.6 mi² (169.9 km²).

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

GAGE.--Nonrecording gage read once daily. Datum of gage is 4,201.5 ft (1,280.617 m) above mean sea level (levels by Lake Hemet Municipal Water District).

REMARKS.--Lake is formed by single-arch dam. Dam was completed to a height of 110 ft (33.5 m) in 1893; raised to 122.5 ft (37.34 m) in 1895, and to 135 ft (41.1 m) in 1923. Capacity table is dated February 1932 (furnished by Lake Hemet Municipal Water District). Lowest sluice gate silted, elevation, 4,222.6 ft (1,287.05 m). Capacity below spillway level, elevation, 4,333.0 ft (1,320.70 m), 11,882 acre-ft (14.7 hm³). Water is released from lake to South Fork San Jacinto River for domestic use and irrigation in the Hemet-San Jacinto Valley. See schematic diagram of Santa Ana River basin.

COOPERATION.--Elevations were furnished by Lake Hemet Municipal Water District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 13,880 acre-ft (17.1 hm³) Feb. 25, 1969, elevation, 4,337.58 ft (1,322.094 m); minimum observed, 264 acre-ft (326 m³) Nov. 19, 1962, Nov. 19, 1963, elevation, 4,266.9 ft (1,300.55 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 6,750 acre-ft (8.32 hm³) May 9-29, elevation, 4,317.50 ft (1,315.974 m); minimum observed, 5,700 acre-ft (7.03 hm³) Sept. 1, 14-16, elevation, 4,313.33 ft (1,314.703 m).

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	4314.92	6080	--
Oct. 31.....	4313.50	5740	-340
Nov. 30.....	4312.67	5550	-190
Dec. 31.....	4313.08	5640	+90
CAL YR 1975.....	--	--	-720
Jan. 31.....	4313.42	5720	+80
Feb. 29.....	4316.33	6440	+720
Mar. 31.....	4316.67	6530	+90
Apr. 30.....	4317.17	6660	+130
May 31.....	4317.42	6730	+70
June 30.....	4316.33	6440	-290
July 31.....	4315.08	6130	-310
Aug. 31.....	4317.42	6730	+600
Sept. 30.....	4313.08	5640	-1090
WTR YR 1976.....	--	--	-440

11069500 SAN JACINTO RIVER NEAR SAN JACINTO, CA

LOCATION.--Lat 33°44'10", long 116°49'26", in NE¼NE¼SE¼ sec.13, T.5 S., R.1 E., Riverside County, on right bank 350 ft (107 m) upstream from bridge on State Highway 74, 1 mi (2 km) downstream from North Fork, 8.3 mi (13.4 km) southeast of San Jacinto, and 9 mi (14 km) downstream from Lake Hemet.

DRAINAGE AREA.--141 mi² (365 km²).

PERIOD OF RECORD.--October 1920 to February 1927, March 1927 to current year. Records since Oct. 1, 1969, equivalent to prior records if lower diversion is deducted from flow past station. Combined records of river and diversion, October 1948 to current year. Monthly discharge only for October 1920 and July to September 1926, published in WSP 1315-B.

GAGE.--Water-stage recorder on river; water-stage recorder on upper canal. Datum of river gage is 1,982.75 ft (604.342 m) above mean sea level (Corps of Engineers bench mark). See WSP 1735 for history of changes prior to Jan. 23, 1948. Prior to Oct. 1, 1969, at site 350 ft (107 m) downstream at same datum. Canal gage at different datum.

REMARKS.--Records poor. Flow partly regulated by Lake Hemet (station 11069000). Lake Hemet Municipal Water District's upper canal diverts 4.0 mi (6.4 km) above station. Fairview Land and Water Co. diverted 6 acre-ft (7,400 m³) above station for domestic use during current year. Diversion above station began prior to 1920. Since relocation of station above lower diversion on Oct. 1, 1969, the records of lower diversion are available at Lake Hemet Municipal Water District. See schematic diagram of Santa Ana River basin. Combined records are equivalent for period of record. For records of combined daily discharge of San Jacinto River and diversion, see following page.

AVERAGE DISCHARGE.--River only: 48 years (water years 1921-26, 1928-69), 18.0 ft³/s (0.510 m³/s), 13,040 acre-ft/yr (16.1 hm³/yr); 7 years (water years 1970-76), 4.94 ft³/s (0.140 m³/s), 3,580 acre-ft/yr (4.41 hm³/yr).

Combined river and diversion: 28 years (water years 1949-76), 17.5 ft³/s (0.496 m³/s), 12,680 acre-ft/yr (15.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--River only: Maximum discharge, 45,000 ft³/s (1,270 m³/s) Feb. 16, 1927, on basis of slope-area measurement of maximum flow; no flow for several months in each year.

Combined river and diversion: Maximum discharge, 7,420 ft³/s (210 m³/s) Jan. 25, 1969; no flow at times in 1951, 1952, 1957, 1976.

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

Date	Time	River Discharge		Gage height		Combined River and Diversion Discharge	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)	(ft ³ /s)	(m ³ /s)
Feb. 9	0515	449	12.7	11.31	3.444	459	13.0
Mar. 2	0015	241	6.83	10.53	3.210	241	6.83
Sept. 11	1145	503	14.2	11.51	3.508	510	14.4
Sept. 24	1915	*515	14.6	11.55	3.520	*523	14.8

River only: Minimum daily discharge, no flow several months.

Combined river and diversion: Minimum daily discharge, no flow Jan. 16-19.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	30	5.6	.04	.06	.06		0
2					0	55	4.5	.04	.05	.06		0
3					0	24	3.1	.06	.08	.06		0
4					0	16	4.0	.08	.10	.06		0
5					8.3	14	5.8	.12	.34	.05		0
6					4.6	14	5.4	.16	1.4	.05		0
7					10	14	2.2	31	2.1	.05		0
8					13	14	1.5	15	3.1	.05		0
9					260	13	.26	6.0	4.0	.04		0
10					75	13	.07	4.5	3.3	.04		78
11					34	13	.09	4.5	1.3	.04		270
12					18	12	.12	4.1	1.3	.04		49
13					13	12	.27	3.0	2.2	.04		17
14					10	13	.16	2.3	.79	.03		7.6
15					7.0	14	.18	1.7	.63	.03		2.4
16					4.1	14	2.7	1.2	.48	.02		.12
17					2.6	14	.30	.63	.37	.01		.10
18					2.4	15	.22	.16	.31	0		.13
19					2.4	14	.30	.10	.27	0		.18
20					2.1	12	.76	.04	.24	0		.23
21					1.6	9.8	1.2	.04	.22	0		.24
22					1.6	7.9	1.5	.06	.20	0		.22
23					1.4	6.5	1.3	.02	.17	0		.19
24					1.3	6.2	1.0	.02	.15	0		45
25					1.1	7.0	1.2	.02	.13	0		9.9
26					1.3	7.1	.86	.02	.11	0		1.2
27					1.1	5.9	.10	.02	.10	0		.76
28					1.1	5.8	.06	.03	.09	0		.68
29					1.1	5.0	.06	.04	.08	0		.57
30					---	4.4	.04	.08	.07	0		.38
31					---	4.7	---	.09	---	0		---
TOTAL	0	0	0	0	478.1	410.3	44.85	75.17	23.74	.73	0	483.90
MEAN	0	0	0	0	16.5	13.2	1.50	2.42	.79	.024	0	16.1
MAX	0	0	0	0	260	55	5.8	31	4.0	.06	0	270
MIN	0	0	0	0	0	4.4	.04	.02	.05	0	0	0
AC-FT	0	0	0	0	948	814	89	149	47	1.4	0	960
CAL YR 1975	TOTAL	1425.77	MEAN 3.91	MAX 160	MIN 0	AC-FT 2830						
WTR YR 1976	TOTAL	1516.79	MEAN 4.14	MAX 270	MIN 0	AC-FT 3010						

SANTA ANA RIVER BASIN

11069500 SAN JACINTO RIVER NEAR SAN JACINTO, CA--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF SAN JACINTO RIVER AND LAKE HEMET
WATER CO.'S UPPER CANAL, NEAR SAN JACINTO, CA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	3.9	4.9	.19	.10	31	7.0	5.5	2.7	3.0	4.1	4.0
2	4.3	3.8	5.7	.19	.16	55	6.3	5.3	2.5	3.3	4.1	4.0
3	4.2	3.7	5.9	.19	.18	24	5.6	5.5	2.3	3.5	4.4	4.2
4	4.0	3.7	3.7	.19	1.8	16	7.0	5.3	2.1	3.0	4.3	4.4
5	4.0	3.7	2.7	.19	15	14	8.9	5.3	1.8	2.8	4.2	4.3
6	4.1	3.8	2.2	.19	12	14	8.2	5.5	2.8	2.8	4.2	4.6
7	4.5	3.7	2.0	.19	19	14	6.0	4.1	3.7	2.5	4.0	4.5
8	4.3	3.8	1.9	.19	22	14	6.0	24	4.5	3.9	3.8	4.5
9	4.3	3.9	1.8	.30	269	13	5.8	14	5.5	4.3	4.0	4.7
10	4.2	4.0	1.8	.31	78	13	5.2	11	6.9	5.6	4.0	86
11	4.5	4.1	1.0	.31	36	13	5.1	9.0	6.4	7.9	4.0	277
12	4.4	4.1	.65	.26	22	12	6.0	8.6	5.7	4.2	3.9	54
13	4.3	4.1	1.5	.18	17	12	7.9	7.3	5.6	4.2	3.9	21
14	4.2	4.0	.84	.18	14	14	8.0	6.6	3.5	4.3	4.1	14
15	4.0	3.9	.55	.10	11	15	7.6	6.0	3.2	4.5	4.3	9.5
16	4.0	4.0	.43	0	7.7	14	12	6.0	3.1	4.7	4.3	7.9
17	3.7	4.1	.35	0	6.1	14	8.4	5.8	2.9	4.3	4.2	7.0
18	3.8	4.2	.30	0	5.9	15	8.6	5.4	2.6	4.0	4.2	6.3
19	4.0	4.1	.23	0	5.9	14	8.9	5.3	2.8	4.2	4.2	6.1
20	4.1	4.0	.23	.08	5.6	12	9.5	5.1	2.7	4.2	4.1	6.0
21	4.1	3.9	.24	.20	5.0	9.9	9.3	4.7	2.8	4.1	3.8	5.8
22	4.3	3.7	.24	.18	4.9	9.1	9.6	4.6	2.7	4.7	3.8	5.5
23	4.3	3.6	.24	.20	4.3	8.4	9.1	4.1	2.6	4.8	4.0	5.5
24	4.2	3.7	.23	.20	3.7	8.1	8.4	4.0	2.5	4.4	4.0	53
25	4.2	3.7	.19	.19	3.1	9.3	8.1	3.9	2.7	4.9	4.0	22
26	4.2	3.6	.18	.20	3.2	9.4	8.4	3.7	2.6	5.6	4.0	9.6
27	4.4	4.0	.19	.18	2.4	8.0	7.5	3.3	2.6	5.8	4.0	8.0
28	4.4	7.9	.19	.18	2.0	7.9	7.0	3.2	2.7	5.4	3.9	7.1
29	4.3	5.7	.19	.18	2.1	7.0	6.4	3.0	2.8	4.8	3.9	7.0
30	4.5	4.6	.19	.18	---	6.2	5.9	3.0	2.9	4.9	4.0	6.4
31	4.5	---	.19	.18	---	6.2	---	2.9	---	4.6	3.9	---
TOTAL	130.6	123.0	40.95	5.31	579.14	432.5	227.7	227.9	100.2	135.2	125.6	663.9
MEAN	4.21	4.10	1.32	.17	20.0	14.0	7.59	7.35	3.34	4.36	4.05	22.1
MAX	4.5	7.9	5.9	.31	269	55	12	41	6.9	7.9	4.4	277
MIN	3.7	3.6	.18	0	.10	6.2	5.1	2.9	1.8	2.5	3.8	4.0
AC-FT	259	244	81	11	1150	858	452	452	199	268	249	1320
CAL YR 1975 TOTAL	2076.64		MEAN 5.69	MAX 37	MIN .03	AC-FT 4120						
WTR YR 1976 TOTAL	2792.00		MEAN 7.63	MAX 277	MIN 0	AC-FT 5540						

11070050 BAUTISTA CREEK AT VALLE VISTA, CA

LOCATION.--Lat 33°44'04", long 116°53'33", in SE¼NE¼SE¼ sec.17, T.5 S., R.1 E., Riverside County, on left levee of flood channel, 1.0 mi (1.6 km) south of Valle Vista.

DRAINAGE AREA.--47.2 mi² (122.2 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 1,835 ft (559 m), from topographic map.

REMARKS.--Records poor. No regulation above station. Diversion above station for irrigation of about 15 acres (61,000 m²). Some infiltration by detention dam, 1.5 mi (2.4 km) upstream.

AVERAGE DISCHARGE.--7 years, 0.43 ft³/s (0.012 m³/s), 312 acre-ft/yr (385,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 750 ft³/s (21.2 m³/s) July 23, 1974, gage height, 2.60 ft (0.792 m), from floodmark, from rating curve extended above 80 ft³/s (2.27 m³/s) on basis of computation of flow in concrete-lined channel at gage heights 1.50 ft (0.457 m), 2.00 ft (0.610 m), and 3.00 ft (0.914 m); no flow for many days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 73 ft³/s (2.07 m³/s) Sept. 10, gage height, 1.41 ft (0.430 m), from rating curve extended as explained above, no peak above base of 100 ft³/s (2.82 m³/s); no flow for many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	.22	0	1.1	0	0	0	0	0	0
2	0	0	0	.14	0	1.1	0	0	0	0	0	0
3	0	0	0	.14	0	1.4	0	0	0	0	0	.12
4	0	0	0	.01	0	0	0	0	0	0	0	0
5	0	0	0	.04	.45	0	.10	0	0	0	0	0
6	0	0	0	.04	.62	0	0	.04	0	0	0	.07
7	0	0	0	0	.14	0	0	.62	.01	0	0	.03
8	0	0	.08	0	.14	0	.04	.07	.02	0	0	0
9	0	0	.32	0	6.7	0	0	.14	0	0	0	.03
10	0	0	.32	0	1.7	0	0	.14	.07	0	0	7.9
11	0	0	.32	0	.02	0	0	.14	.06	0	0	3.2
12	0	0	.32	0	0	0	.14	.06	0	0	0	.62
13	.01	0	.62	0	0	0	.22	0	0	0	0	1.4
14	0	0	.45	0	0	0	.14	0	0	0	0	3.2
15	0	0	.32	0	0	0	.14	0	0	0	0	3.2
16	0	0	.17	0	0	0	.32	0	0	0	.12	3.2
17	0	0	0	0	0	.22	.62	0	0	0	0	3.2
18	0	0	0	0	0	.14	.45	0	0	0	0	3.2
19	0	0	0	0	0	.22	.45	0	0	0	0	3.9
20	0	0	0	0	0	.22	.32	0	0	0	0	2.7
21	0	0	0	.01	0	.02	.45	0	0	0	0	1.1
22	.14	0	0	.03	0	0	.45	0	0	0	0	.82
23	0	0	0	.22	0	0	.22	0	0	0	0	.82
24	0	0	0	.14	0	.04	.32	0	0	0	0	1.4
25	0	0	0	0	0	0	.32	0	.76	0	0	2.2
26	.45	0	0	0	0	0	0	0	0	0	0	2.2
27	.22	.04	0	0	0	0	0	0	0	0	0	.82
28	0	.45	0	0	0	.04	0	0	0	0	0	.06
29	0	0	0	0	.14	.02	0	.09	0	0	0	0
30	.02	0	0	0	---	0	0	0	0	0	0	0
31	0	---	.14	0	---	0	---	0	---	0	0	---
TOTAL	.84	.49	3.06	.99	9.91	4.52	4.70	1.30	.92	0	.12	45.39
MEAN	.027	.016	.099	.032	.34	.15	.16	.042	.031	0	.004	1.51
MAX	.45	.45	.62	.22	6.7	1.4	.62	.62	.76	0	.12	7.9
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	1.7	1.0	6.1	2.0	20	9.0	9.3	2.6	1.8	0	.2	90
CAL YR 1975	TOTAL	143.93	MEAN .39	MAX	17	MIN 0	AC-FT 285					
WTR YR 1976	TOTAL	72.24	MEAN .20	MAX	7.9	MIN 0	AC-FT 143					

SANTA ANA RIVER BASIN

11070375 SAN JACINTO RIVER AT RAILROAD CANYON WEIR, NEAR ELSINORE, CA

LOCATION.--Lat 33°44'10", long 117°15'08", in SW¼SE¼NW¼ sec.13, T.5 S., R.4 W., Riverside County, on right bank 4.3 mi (6.9 km) northeast of Railroad Canyon Dam, and 5.8 mi (9.3 km) northeast of Elsinore.

DRAINAGE AREA.--562 mi² (1,456 km²).

PERIOD OF RECORD.--October 1951 to current year. Monthly discharge only prior to October 1971. Daily discharge available in district files.

GAGE.--Water-stage recorder. Altitude of gage is 1,400 ft (427 m), from topographic map. Prior to Sept. 28, 1960, at site 0.8 mi (1.3 km) upstream at different datum.

REMARKS.--Flow partially regulated by Lake Hemet (station 11069000). Diversions for irrigation and domestic use above station. At times imported Colorado River water is discharged into channel above station by Temescal Water Co. or Elsinore Valley Municipal Water District.

COOPERATION.--Records were published as furnished by Riverside County Flood Control and Water Conservation District.

AVERAGE DISCHARGE.--River only: 25 years, 5.55 ft³/s (0.157 m³/s), 4,020 acre-ft/yr (4.96 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,330 ft³/s (151 m³/s) Feb. 25, 1969, results of runoff study by Riverside County Flood Control and Water Conservation District; no flow for long periods in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 495 ft³/s (14.0 m³/s) Sept. 11, gage height, 2.80 ft (0.853 m); no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	17	0	0				0
2					0	31	0	0				0
3					0	52	0	0				0
4					0	6.4	0	0				0
5					0	.84	0	0				0
6					18	0	0	0				0
7					22	0	0	12				0
8					13	0	0	6.1				0
9					194	0	0	1.4				0
10					19	0	0	.44				63
11					2.5	0	0	0				204
12					1.2	0	0	0				24
13					.72	0	0	0				18
14					.45	0	1.1	0				7.9
15					.36	0	2.6	0				0
16					.36	0	.37	0				0
17					.18	0	0	0				0
18					0	0	0	0				0
19					0	0	0	0				0
20					0	0	0	0				0
21					0	0	0	0				0
22					0	0	0	0				0
23					0	0	0	0				0
24					0	0	0	0				.02
25					0	0	0	0				15
26					0	0	0	0				0
27					0	0	0	0				0
28					0	0	0	0				0
29					0	0	0	0				0
30					---	0	0	0				0
31		---			---	0	---	0	---			---
TOTAL	0	0	0	0	271.77	107.24	4.07	19.94	0	0	0	331.92
MEAN	0	0	0	0	9.37	3.46	.14	.64	0	0	0	11.1
MAX	0	0	0	0	194	52	2.6	12	0	0	0	204
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	539	213	8.1	40	0	0	0	658
(a)	1790	0	0	0	0	0	0	260	0	0	2070	601
CAL YR 1975	TOTAL 384.17	MEAN 1.05	MAX 119	MIN 0	AC-FT 762							
WTR YR 1976	TOTAL 734.94	MEAN 2.01	MAX 204	MIN 0	AC-FT 1460							

a Imported Colorado River water, in acre-feet

11070475 SALT CREEK AT RAILROAD CANYON RESERVOIR, NEAR ELSINORE, CA

LOCATION.--Lat 33°40'42", long 117°14'03", in SW¼SE¼NW¼ sec.6, T.6 S., R.3 W., Riverside County, on left bank at Railroad Canyon Road, 5.1 mi (8.2 km) northeast of Elsinore.

DRAINAGE AREA.--122 mi² (316 km²), largely noncontributing except during extreme floods.

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

GAGE.--Water-stage recorder. Datum of gage is 1,382.0 ft (421.23 m) above mean sea level (levels by Riverside County Flood Control and Water Conservation District).

REMARKS.--No regulation or diversion above station.

COOPERATION.--Records were published as furnished by Riverside County Flood Control and Water Conservation District.

AVERAGE DISCHARGE.--7 years, 0.32 ft³/s (0.009 m³/s), 232 acre-ft/yr (286,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 169 ft³/s (4.79 m³/s) Jan. 8, 1974, gage height not furnished; no flow most of each year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 25, 1969, 2,010 ft³/s (56.9 m³/s), at site 1 mi (1.6 km) upstream, from records of Riverside County Flood Control and Water Conservation District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 104 ft³/s (2.95 m³/s) Feb. 9, gage height, 2.51 ft (0.765 m); no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	0						0
2					0	0						0
3					0	5.0						0
4					0	.67						0
5					0	0						0
6					0	0						0
7					4.0	0						.02
8					7.5	0						0
9					44	0						0
10					10	0						1.2
11					.91	0						12
12					0	0						1.5
13					0	0						2.2
14					0	0						.68
15					0	0						0
16					0	0						0
17					0	0						0
18					0	0						0
19					0	0						0
20					0	0						0
21					0	0						0
22					0	0						0
23					0	0						0
24					0	0						0
25					0	0						0
26					0	0						0
27					0	0						0
28					0	0						0
29					0	0						0
30					---	0						0
31		---			---	0	---		---			---
TOTAL	0	0	0	0	66.41	5.67	0	0	0	0	0	17.60
MEAN	0	0	0	0	2.29	.18	0	0	0	0	0	.59
MAX	0	0	0	0	44	5.0	0	0	0	0	0	12
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	132	11	0	0	0	0	0	35
CAL YR 1975	TOTAL	125.78	MEAN .34	MAX 26	MIN 0	AC-FT 249						
WTR YR 1976	TOTAL	89.68	MEAN .25	MAX 44	MIN 0	AC-FT 178						

SANTA ANA RIVER BASIN

11070500 SAN JACINTO RIVER NEAR ELSINORE, CA

LOCATION.--Lat 33°39'51", Long 117°17'35", in SE¼SE¼NE¼ sec.9, T.6 S., R.4 W., Riverside County, on right bank 2 mi (3 km) east of Elsinore, and 2.1 mi (3.4 km) downstream from Railroad Canyon Dam.

DRAINAGE AREA.--723 mi² (1,873 km²).

PERIOD OF RECORD.--January 1916 to current year. Monthly figures 1927-50, adjusted for diversion, published in WSP 1315-B.

GAGE.--Water-stage recorder. Altitude of gage is 1,270 ft (387 m), from topographic map. Prior to Feb. 13, 1916, nonrecording gage at site 0.7 mi (1.1 km) downstream at different datum. Feb. 13, 1916, to Oct. 27, 1921, nonrecording gage at present site at different datum.

REMARKS.--Records fair. Flow partly regulated by Lake Hemet (station 11069000) and regulated since 1928 by Railroad Canyon Reservoir, capacity, 12,000 acre-ft (14.8 hm³), 2.1 mi (3.4 km) above station. Diversion for irrigation and domestic use above Railroad Canyon Reservoir. Temescal Water Co. diverted 1450 acre-ft (1.79 hm³/yr) during current year from Railroad Canyon Reservoir for irrigation below station in vicinity of Corona. See schematic diagram of Santa Ana River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,000 ft³/s (453 m³/s) Feb. 17, 1927, gage height, 11.8 ft (3.60 m), from rating curve extended above 2,000 ft³/s (56.6 m³/s) on basis of slope-area measurement of maximum flow; no flow for several months in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18 ft³/s (0.51 m³/s) Feb. 9, gage height, 3.17 ft (0.966 m) extended above 3.0 ft³/s (0.09 m³/s); minimum daily, no flow for several months.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.11	.15	.43	.49	3.0	.16		.29		0
2		0	.11	.15	.44	.74	2.7	.14		.06		0
3		0	.11	.16	.45	1.0	2.5	.13		.04		0
4		0	.11	.17	.58	2.0	2.4	.15		.03		0
5		0	.11	.18	.66	2.7	2.4	.16		.01		0
6		0	.11	.18	1.4	2.7	2.5	.19		0		0
7		0	.11	.19	1.5	2.7	2.5	.22		0		0
8		0	.10	.19	2.3	2.7	2.4	.22		0		0
9		0	.10	.19	7.6	2.7	1.2	.18		0		0
10		0	.11	.19	2.1	2.7	.36	.15		0		.45
11		0	.11	.19	1.5	2.7	.33	.12		0		1.3
12		0	.13	.20	.95	2.6	.30	.10		0		.23
13		0	.18	.21	.64	2.7	.47	.08		0		.15
14		0	.13	.21	.52	2.7	.44	.06		0		.13
15		.01	.12	.22	.47	2.5	.42	.05		0		.13
16		.03	.12	.22	.44	2.4	.37	.03		0		.12
17		.05	.12	.23	.42	2.6	.31	.01		0		.11
18		.06	.12	.25	.41	2.9	.28	0		0		.10
19		.07	.12	.26	.38	3.0	.25	0		0		.11
20		.07	.16	.26	.37	3.0	.23	0		0		.14
21		.08	.23	.27	.35	3.0	.21	0		0		.15
22		.08	.16	.30	.35	3.0	.21	0		0		.14
23		.08	.15	.32	.35	3.0	.21	0		0		.15
24		.08	.14	.33	.35	3.0	.22	0		0		.16
25		.08	.15	.34	.35	3.0	.22	0		0		.22
26		.08	.15	.34	.34	3.0	.21	0		0		.22
27		.10	.15	.35	.37	3.0	.20	0		0		.19
28		.16	.15	.37	.39	2.9	.20	0		0		.16
29		.17	.14	.38	.34	3.0	.19	0		0		.15
30		.11	.15	.41	---	3.0	.18	0		0		.15
31		---	.16	.42	---	3.0	---	0	---	0		---
TOTAL	0	1.31	4.12	7.83	26.75	80.43	27.41	2.15	0	.43	0	4.66
MEAN	0	.044	.13	.25	.92	2.59	.91	.069	0	.014	0	.16
MAX	0	.17	.23	.42	7.6	3.0	3.0	.22	0	.29	0	1.3
MIN	0	0	.10	.15	.34	.49	.18	0	0	0	0	0
AC-FT	0	2.6	8.2	16	53	160	54	4.3	0	.9	0	9.2

CAL YR 1975 TOTAL 227.51 MEAN .62 MAX 8.8 MIN 0 AC-FT 451
WTR YR 1976 TOTAL 155.09 MEAN .42 MAX 7.6 MIN 0 AC-FT 308

SANTA ANA RIVER BASIN

395

11072000 TEMESCAL CREEK NEAR CORONA, CA

LOCATION.--Lat 33°50'29", long 117°30'37", in El Sobrante de San Jacinto Grant, Riverside County, on left bank 0.2 mi (0.3 km) downstream from unnamed tributary, and 3.8 mi (6.1 km) southeast of Corona.

DRAINAGE AREA.--164 mi² (425 km²), excludes 768 mi² (1,989 km²) above Lake Elsinore.

PERIOD OF RECORD.--October 1927 to current year. Monthly discharge only for the period October 1928 to January 1929, published in WSP 1315-B.

GAGE.--Water-stage recorder. Concrete control since June 12, 1970. Altitude of gage is 730 ft (223 m), from topographic map. Prior to Feb. 11, 1943, at datum 6.00 ft (1.829 m) higher.

REMARKS.--Records poor. Flow regulated by several storage reservoirs. Many diversions above station for irrigation. See schematic diagram of Santa Ana River basin.

AVERAGE DISCHARGE.--49 years, 3.26 ft³/s (0.092 m³/s), 2,360 acre-ft/yr (2.91 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,900 ft³/s (422 m³/s) Mar. 2, 1938, on basis of slope-area measurement of maximum flow; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 630 ft³/s (17.8 m³/s) Sept. 7, gage height, 10.32 ft (3.146 m); no flow many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	.01	.04		0				0
2				0	0	.58		0				0
3				0	0	1.1		0				0
4				0	0	.04		0				0
5				0	0	.03		0				0
6				0	0	.06		0				0
7				0	0	.02		.04				37
8				0	.40	0		0				.25
9				0	.53	.01		0				0
10				0	0	0		0				10
11				0	0	0		0				1.2
12				0	0	0		0				0
13				0	0	0		0				0
14				0	0	.01		0				0
15				.01	0	0		0				0
16				.02	.02	0		0				0
17				.02	.08	0		0				0
18				.01	.08	0		0				0
19				.01	.06	0		0				0
20				.02	.06	0		0				0
21				.01	.08	0		0				0
22				.02	.06	0		0				0
23				0	.05	0		0				0
24				0	.03	0		0				0
25				.01	0	0		0				0
26				.03	0	0		0				0
27				.01	0	0		0				0
28				.02	0	0		0				0
29				.02	0	0		0				0
30				.01	---	0		0				0
31		---		.01	---	0	---	0	---			---
TOTAL	0	0	0	.23	1.46	1.89	0	.04	0	0	0	48.45
MEAN	0	0	0	.007	.050	.061	0	.001	0	0	0	1.62
MAX	0	0	0	.03	.53	1.1	0	.04	0	0	0	37
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	.5	2.9	3.7	0	.08	0	0	0	96
CAL YR 1975	TOTAL	46.96	MEAN .13	MAX 11	MIN 0	AC-FT 93						
WTR YR 1976	TOTAL	52.07	MEAN .14	MAX 37	MIN 0	AC-FT 103						

SANTA ANA RIVER BASIN

11073200 SAN ANTONIO CREEK BELOW SAN ANTONIO DAM, CA

LOCATION.--Lat 34°09'26", long 117°40'50", in NE¼NE¼SE¼ sec.23, T.1 N., R.8 W., Los Angeles-San Bernardino County line, on left wall of outlet channel at toe of San Antonio Dam, and 4.7 mi (7.6 km) northeast of Claremont.

DRAINAGE AREA.--26.9 mi² (69.7 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 2,093.94 ft (638.233 m) above mean sea level (Corps of Engineers bench mark).

REMARKS.--Records fair. Flow regulated by San Antonio flood-control reservoir, capacity, 7,620 acre-ft (9.40 hm³). Water diverted out of basin for power, domestic use, and irrigation. See schematic diagram of Santa Ana River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,420 ft³/s (238 m³/s) Jan. 25, 1969, gage height, 11.22 ft (3.420 m), from rating curve extended above 400 ft³/s (11.3 m³/s) on basis of gate openings at dam; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 763 ft³/s (21.6 m³/s) Sept. 10, gage height, 2.99 ft (0.911 m); no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						0	.10	.05				0
2						0	.10	.05				0
3						0	.10	.05				47
4						0	.10	.05				.01
5						0	.18	.05				0
6						0	.16	.05				0
7						0	.16	.05				104
8						0	.12	.05				.99
9						0	.10	.05				0
10						0	.10	.05				183
11						0	.10	.05				.10
12						0	.10	0				0
13						0	.10	0				0
14						0	.10	0				0
15						0	.10	0				0
16						0	.10	0				39
17						0	.10	0				342
18						0	.10	0				417
19						0	.10	0				334
20						0	.10	.04				392
21						0	.10	0				418
22						0	2.9	0				402
23						0	.20	0				344
24						0	.10	0				208
25						.15	.10	0				74
26						1.7	.08	.02				.19
27						.24	.05	.05				.10
28						.24	.05	.01				.10
29						.16	.05	0				.10
30						.10	.05	0				.10
31		---				.10	---	0	---			---
TOTAL	0	0	0	0	0	2.69	5.90	.67	0	0	0	3305.69
MEAN	0	0	0	0	0	.087	.20	.022	0	0	0	110
MAX	0	0	0	0	0	1.7	2.9	.05	0	0	0	418
MIN	0	0	0	0	0	0	.05	0	0	0	0	0
AC-FT	0	0	0	0	0	5.3	12	1.3	0	0	0	6560
CAL YR 1975	TOTAL	16.58	MEAN .045	MAX	4.9	MIN 0	AC-FT	33				
WTR YR 1976	TOTAL	3314.95	MEAN 9.06	MAX	418	MIN 0	AC-FT	6580				

SANTA ANA RIVER BASIN

397

11073210 RIALTO PIPELINE BELOW SAN ANTONIO DAM, NEAR CLAREMONT, CA

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

PERIOD OF RECORD.--

CHEMICAL ANALYSES: March 1974 to current year.

REMARKS.--Discharge values are from Chino Creek at Schaefer Avenue, near Chino (station 11073360).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)
NOV 11...	1000	100	348	8.2	15.0	93	11	21	9.9
DEC 11...	1100	97	330	8.2	10.4	86	8	19	9.4
JAN 30...	1400	180	310	7.9	9.4	79	9	18	8.3

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SI02) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
NOV 11...	42	.1	9.8	198	.27	53.5	.15	150	10
DEC 11...	38	.1	10	190	.26	49.8	.67	130	20
JAN 30...	36	.1	12	179	.25	87.0	.54	150	20

DATE	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HC03) (MG/L)	CARBONATE (C03) (MG/L)	ALKALINITY AS CAC03 (MG/L)	CARBON DIOXIDE (C02) (MG/L)	DIS-SOLVED SULFATE (S04) (MG/L)
NOV 11...	34	44	1.5	1.8	100	0	82	1.0	29
DEC 11...	33	45	1.5	2.4	95	0	78	1.0	28
JAN 30...	30	44	1.5	2.5	85	0	70	1.7	28

SANTA ANA RIVER BASIN

11073360 CHINO CREEK AT SCHAEFER AVENUE, NEAR CHINO, CA

LOCATION.--Lat 34°00'14", long 117°43'34", in Santa Ana del Chino Grant, San Bernardino County, on right bank 300 ft (91 m) downstream from Schaefer Avenue, 0.8 mi (1.3 km) downstream from San Antonio Creek, and 1.5 mi (2.4 km) southwest of Chino.

DRAINAGE AREA.--48.9 mi² (126.7 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 685 ft (209 m), from topographic map.

REMARKS.--Records good. Flow partly regulated by San Antonio flood-control reservoir, capacity, 7,620 acre-ft (9.40 hm³). Natural streamflow affected by extensive ground-water withdrawals, diversions for power, domestic use, irrigation, and return flow from irrigated areas. California Water Project reported releases of 61,770 acre-ft (76.2 hm³) to basin at San Antonio Creek at Rialto pipeline below San Antonio Dam (station 11073210) at a point 10 mi (16 km) upstream. See schematic diagram of Santa Ana River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,920 ft³/s (82.7 m³/s) Dec. 4, 1974, gage height, 6.61 ft (2.015 m), from floodmarks, from rating curve extended above 620 ft³/s (17.6 m³/s) on basis of computation of flow in concrete-lined channel at 1,600 ft³/s (45.3 m³/s) and a contracted-opening measurement at 9.23 ft (2.813 m); minimum daily, 0.03 ft³/s (0.001 m³/s) May 24, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 25, 1969, 9,200 ft³/s (261 m³/s), gage height, 9.23 ft (2.813 m), present datum, by contracted-opening measurement at site 6.1 mi (9.8 km) downstream.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 600 ft³/s (17.0 m³/s) and maximum (*), extended above 300 ft³/s (8.50 m³/s) on basis of contracted-opening measurement of 9.23 ft (2.813 m):

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)	
Feb. 6	0600	635	18.0	6.15	1.875	Sept. 7	1700	852	24.1	6.36	1.939
Feb. 9	1215	720	20.4	6.24	1.902	Sept. 10	1700	*1410	39.9	6.77	2.063
Mar. 1	1130	720	20.4	6.24	1.902						

Minimum daily discharge, 0.03 ft³/s (0.001 m³/s) May 24.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	.33	237	171	151	124	3.2	.12	179	151	.12	.21
2	50	.33	242	174	196	35	.64	.18	182	163	.12	.21
3	47	.39	235	174	197	7.8	.58	.14	179	163	.12	.21
4	44	.33	205	169	132	.66	33	.14	179	163	.18	.21
5	44	.39	255	201	43	.25	.73	.18	179	108	.21	.09
6	21	.33	273	216	108	.12	.64	.12	177	68	.18	.09
7	1.1	.33	278	216	44	.07	.52	7.5	177	73	.18	27
8	.26	.33	190	228	137	.14	.83	.07	174	116	.09	1.4
9	1.1	.29	110	189	148	.29	.58	.05	177	71	.09	.92
10	1.1	52	105	233	1.8	120	.58	.05	237	72	.18	292
11	2.3	95	99	216	.92	158	.52	.05	283	72	.14	44
12	1.4	96	125	224	.92	175	6.2	.07	289	72	.14	.52
13	1.1	96	100	224	1.0	182	32	.09	289	72	.21	.21
14	.52	96	96	216	.92	171	.45	.09	220	73	.18	.14
15	.29	96	96	216	.64	148	14	.14	179	33	.21	.21
16	.33	96	181	212	.58	169	.52	.14	186	.33	.18	.25
17	27	96	233	228	.64	185	.39	.07	186	.25	.14	.18
18	51	152	241	209	.64	196	.33	.12	179	.29	.14	.21
19	50	190	237	193	.64	140	.29	.09	182	.29	.14	.33
20	47	190	237	169	.58	123	.21	.07	179	.21	.14	.21
21	46	190	233	171	.73	123	.29	.18	179	.21	.21	.21
22	46	190	212	74	.58	125	.25	.09	179	.21	.12	.21
23	46	195	186	82	.52	125	.25	.07	190	.14	.07	.33
24	47	198	190	177	.45	127	.29	.03	182	.18	.07	1.6
25	47	200	190	169	117	127	.21	.14	136	.14	.09	.33
26	47	210	186	169	179	129	.14	68	117	.21	.07	.21
27	72	230	182	171	177	132	.18	182	118	.29	.12	.21
28	93	241	182	174	171	136	.18	177	132	.25	.09	.21
29	95	237	182	166	140	140	.12	167	142	.14	.09	.21
30	80	233	177	169	---	141	.33	177	138	.14	.09	53
31	.52	---	171	160	---	142	---	177	---	.14	.12	---
TOTAL	1057.02	3382.05	5866	5760	1951.56	3382.33	98.45	957.99	5525	1473.42	4.23	425.12
MEAN	34.1	113	189	186	67.3	109	3.28	30.9	184	47.5	.14	14.2
MAX	95	241	278	233	197	196	33	182	289	163	.21	292
MIN	.26	.29	96	74	.45	.07	.12	.03	117	.14	.07	.09
AC-FT	2100	6710	11640	11420	3870	6710	195	1900	10960	2920	8.4	843
CAL YR 1975	TOTAL	20288.58	MEAN	55.6	MAX	278	MIN	.05	AC-FT	40240		
WTR YR 1976	TOTAL	29883.17	MEAN	81.6	MAX	292	MIN	.03	AC-FT	59270		

SANTA ANA RIVER BASIN

11073360 CHINO CREEK AT SCHAEFER AVENUE, NEAR CHINO, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
 CHEMICAL ANALYSES: March 1974 to current year.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)
NOV 11...	1215	101	350	9.1	17.0	93	9	21	9.9	34
DEC 11...	0930	96	330	8.5	10.5	85	9	19	9.0	33
JAN 30...	1300	180	310	8.9	11.0	76	7	17	8.1	30

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)
NOV 11...	.1	9.8	198	201	.27	54.0	.10	150	0
DEC 11...	.1	10	187	186	.25	48.8	.24	120	30
JAN 30...	.1	11	183	176	.25	88.9	.39	150	20

DATE	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
NOV 11...	44	1.5	1.7	80	11	84	.1	31	42
DEC 11...	45	1.6	2.5	92	0	75	.5	28	38
JAN 30...	45	1.5	2.2	58	13	69	.2	28	36

SANTA ANA RIVER BASIN

11073495 CUCAMONGA CREEK NEAR MIRA LOMA, CA

LOCATION.--Lat 33°58'58", long 117°35'55", in SW¼SW¼NE¼ sec.22, T.2 S., R.7 W., San Bernardino County, on left levee 200 ft (61 m) upstream from Merrill Avenue, and 4.6 mi (7.4 km) west of Mira Loma.

DRAINAGE AREA.--75.8 mi² (196.3 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 655.3 ft (199.74 m) above mean sea level.

REMARKS.--Records poor. Extensive ground-water withdrawals for municipal supply and irrigation. See schematic diagram of Santa Ana River basin.

AVERAGE DISCHARGE.--8 years, 2.74 ft³/s (0.078 m³/s), 1,990 acre-ft/yr (2.45 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,100 ft³/s (258 m³/s) Jan. 25, 1969, gage height, 7.08 ft (2.158 m), from floodmark, on basis of slope-area measurement of maximum flow; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 356 ft³/s (10.1 m³/s) Sept. 11 (0030 hrs), gage height, 1.88 ft (0.573 m), no other peak above base of 300 ft³/s (8.50 m³/s); no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	0						0
2					0	0						0
3					0	0						0
4					0	0						0
5					0	11						0
6					2.3	0						0
7					1.3	7.6						0
8					3.4	0						0
9					1.5	0						0
10					0	0						14
11					0	0						17
12					0	0						0
13					0	0						0
14					0	0						0
15					0	0						0
16					0	0						0
17					0	0						0
18					0	0						0
19					0	0						0
20					0	0						0
21					0	0						0
22					0	0						0
23					0	0						0
24					0	0						0
25					0	0						0
26					0	0						0
27					0	0						0
28					0	0						0
29					0	0						0
30					---	0						0
31		---			---	0	---		---			---
TOTAL	0	0	0	0	8.5	18.6	0	0	0	0	0	31
MEAN	0	0	0	0	.29	.60	0	0	0	0	0	1.03
MAX	0	0	0	0	3.4	11	0	0	0	0	0	17
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	17	37	0	0	0	0	0	61
CAL YR 1975	TOTAL 30.31	MEAN .083	MAX 19	MIN 0	AC-FT 60							
WTR YR 1976	TOTAL 58.10	MEAN .16	MAX 17	MIN 0	AC-FT 115							

11074000 SANTA ANA RIVER BELOW PRADO DAM, CA
(National stream-quality accounting network station)

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

DRAINAGE AREA.--1,490 mi² (3,859 km²), excludes 768 mi² (1,989 km²) above Lake Elsinore.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1930 to November 1939 (irrigation seasons only), March 1940 to current year. Published as "at Santa Fe Railroad Bridge, near Prado" May 1930 to November 1931, as "at Atchison, Topeka, and Santa Fe Railroad Bridge, near Prado" May 1932 to November 1939, and as "below Prado Dam, near Prado" March 1940 to September 1950.

GAGE.--Water-stage recorder and concrete control since August 1944. Datum of gage is approximately 449 ft (136.9 m) above mean sea level (Corps of Engineers Survey). Prior to Mar. 18, 1940, at about same site at various datums.

REMARKS.--Records good. Flow regulated since 1941 by Prado Reservoir, capacity, 201,200 acre-ft (248 hm³) and Big Bear Lake (station 11049000). Natural streamflow affected by extensive ground-water withdrawals, diversion for irrigation, and return flow from irrigated areas. California Water Project released 61,770 acre-ft (76.2 hm³) to basin (station 11073360). See schematic diagram of Santa Ana River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,800 ft³/s (164 m³/s) Jan. 26, 1969, gage height, 5.75 ft (1.753 m); minimum daily 3.0 ft³/s (0.085 m³/s) Sept. 24-30, 1973. Flood of Mar. 2, 1938, 100,000 ft³/s (2,830 m³/s), by slope-area measurement at site 2.5 mi (4.0 km) downstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 599 ft³/s (17.0 m³/s) Sept. 11, gage height, 3.86 ft (1.177 m); minimum daily, 33 ft³/s (0.93 m³/s) Aug. 6, 30, Sept. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	66	318	265	255	216	158	63	258	180	42	33
2	99	66	323	262	292	217	79	60	248	203	41	34
3	97	66	345	266	334	265	73	62	254	200	45	36
4	89	66	280	264	286	286	107	66	255	203	46	40
5	84	66	327	281	197	270	128	77	255	178	41	44
6	88	66	362	329	270	203	77	76	255	110	33	47
7	54	66	366	328	279	102	70	108	257	107	36	46
8	49	66	339	338	307	97	72	90	255	167	35	64
9	48	66	180	340	321	97	70	74	257	109	34	49
10	48	71	175	339	296	139	68	71	311	107	38	149
11	51	149	168	334	279	247	66	69	382	107	42	423
12	51	149	178	329	266	250	73	66	370	107	37	410
13	48	152	203	339	215	256	158	59	362	105	38	398
14	49	155	181	338	180	260	130	60	326	107	41	378
15	50	155	174	332	180	263	92	60	244	105	41	329
16	52	154	194	328	178	280	105	57	248	53	38	114
17	52	153	331	337	177	290	81	56	245	43	36	100
18	96	176	333	334	206	290	79	58	237	45	37	86
19	100	258	330	316	254	294	75	56	237	49	43	87
20	100	260	330	270	264	284	77	58	238	47	49	86
21	100	256	354	269	256	277	77	56	234	47	53	85
22	100	254	335	235	237	263	76	56	229	50	43	86
23	100	258	287	95	162	246	79	61	231	49	40	87
24	100	251	286	287	107	237	72	71	229	45	36	86
25	100	264	286	286	132	234	73	75	198	42	36	137
26	100	269	281	273	252	230	73	75	153	46	35	98
27	120	317	276	281	263	230	72	216	152	47	41	90
28	150	329	271	283	267	230	72	252	152	47	37	87
29	150	339	270	274	270	227	68	247	170	46	36	86
30	160	321	268	274	---	234	67	253	170	45	33	98
31	95	---	269	271	---	234	---	252	---	45	34	---
TOTAL	2678	5284	8620	9097	6982	7248	2567	2960	7412	2841	1217	3893
MEAN	86.4	176	278	293	241	234	85.6	95.5	247	91.6	39.3	130
MAX	160	339	366	340	334	294	158	253	382	203	53	423
MIN	48	66	168	95	107	97	66	56	152	42	33	33
AC-FT	5310	10480	17100	18040	13850	14380	5090	5870	14700	5640	2410	7720
CAL YR 1975	TOTAL	49588	MEAN 136	MAX 366	MIN 45	AC-FT 98360						
WTR YR 1976	TOTAL	60799	MEAN 166	MAX 423	MIN 33	AC-FT 120600						

SANTA ANA RIVER BASIN

11074000 SANTA ANA RIVER BELOW PRADO DAM, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1967 to current year.
 CHEMICAL ANALYSES: Water year 1967 to current year.
 WATER TEMPERATURES: Water year 1970 to current year.
 SEDIMENT RECORDS: Water year 1974 to current year.

PERIOD OF DAILY RECORD.--
 CHLORIDE: October 1970 to September 1971.
 SPECIFIC CONDUCTANCE: October 1969 to current year.
 WATER TEMPERATURES: October 1969 to current year.
 SEDIMENT RECORDS.--October 1973 to current year.

INSTRUMENTATION.--Water-quality monitor October 1970 to September 1971. Specific conductance recorder since October 1969. Temperature recorder since October 1969.

REMARKS.--Periods of missing temperature record due to recorder malfunction. Particle-size distribution of bed material table was omitted in the 1975 water year and is published with the 1976 water year records.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
 SPECIFIC CONDUCTANCE: Maximum, 1,830 micromhos Apr. 30, 1971; minimum, 316 micromhos Dec. 4, 1974.
 WATER TEMPERATURES: Maximum, 36.0°C Sept. 4, 1972; minimum, 2.5°C Dec. 30, 1969.
 SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,300 mg/l Jan. 8, 1974; minimum daily mean, 15 mg/l on several days in 1975.
 SEDIMENT DISCHARGE: Maximum daily, 5,050 tons (4,580 tonnes) Jan. 8, 1974; minimum daily, 5.0 tons (4.5 tonnes) Feb. 13, 1975.

EXTREMES FOR CURRENT YEAR.--
 SPECIFIC CONDUCTANCE: Maximum, 1,390 micromhos Feb. 23; minimum, 482 micromhos Feb. 6.
 WATER TEMPERATURES: Maximum, 27.0°C May 12, July 27, Sept. 4; minimum, 4.0°C Jan. 2.
 SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,010 mg/l Feb. 23; minimum daily mean, 17 mg/l Mar. 19.
 SEDIMENT DISCHARGE: Maximum daily, 458 tons (415 tonnes) Sept. 10; minimum daily, 8.7 tons (7.9 tonnes) Apr. 17.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)
OCT										
01...	1600	98	790	--	21.1	471	--	.64	125	--
16...	0930	56	1110	--	13.0	684	--	.93	103	--
28... A	1445	150	780	7.8	16.0	437	--	.59	177	159
30...	1315	160	760	7.9	14.8	423	415	.58	183	--
NOV										
03...	1205	70	1140	--	14.5	680	--	.92	129	--
17...	1500	162	705	--	13.5	411	--	.56	180	--
19...	1200	257	607	--	10.2	349	--	.47	242	--
20... A	1330	265	650	7.7	11.0	407	--	.55	291	68
25...	1310	270	611	7.9	11.9	372	358	.51	271	--
DEC										
02...	1100	322	576	--	9.7	320	--	.44	278	--
18... A	1100	333	583	--	7.2	338	--	.46	304	--
18...	1430	336	500	7.6	10.0	401	--	.55	364	53
29...	1300	270	605	--	11.1	359	--	.49	262	--
31...	1145	270	665	7.9	11.2	372	361	.51	271	--
JAN										
07...	1400	327	564	--	9.2	342	--	.47	302	--
16...	0930	339	515	8.0	8.0	328	336	.45	300	--
20...	1430	270	624	--	12.4	363	--	.49	265	--
30... A	1420	266	550	7.9	12.0	363	--	.49	261	60
FEB										
02...	1400	287	580	--	11.8	342	--	.47	265	--
09...	0930	273	750	7.8	13.1	507	442	.69	374	--
20...	1300	260	1110	--	13.5	652	--	.89	458	--
23...	1115	200	1320	7.8	11.2	836	838	1.14	451	--
26... A	1300	253	570	7.6	11.0	388	--	.53	265	128
MAR										
01...	1300	167	873	--	13.9	530	--	.72	239	--
03...	1000	234	716	7.5	10.7	430	427	.58	272	--
15...	1000	266	607	--	13.3	353	--	.48	254	--
30...	1000	234	700	7.8	11.8	394	396	.56	249	--
30... A	1350	230	620	7.7	15.5	377	--	.51	234	93
APR										
01...	1400	103	1050	--	18.8	631	--	.86	175	--
13...	1200	200	620	--	13.5	377	--	.51	204	--
22... A	1310	78	1120	7.7	19.5	674	--	.92	142	107
30...	1250	69	1190	7.9	19.2	702	696	.95	131	--
MAY										
04...	0900	70	1120	--	16.7	693	--	.94	131	--

11074000 SANTA ANA RIVER BELOW PRADO DAM, CA--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILTERABLE RESIDUE (MG/L)
MAY										
20... A	1315	63	1080	7.8	21.0	671	--	.91	114	--
20...	1400	61	1100	--	22.1	696	--	.95	115	--
24...	1200	82	1100	7.9	17.5	708	669	.96	157	--
JUN										
01...	1200	270	650	--	17.1	372	--	.51	271	--
15...	1300	247	575	--	19.4	360	--	.49	240	--
25... A	1200	209	570	7.6	21.0	331	--	.45	187	--
30...	1115	180	580	7.8	24.5	--	--	--	--	--
JUL										
01...	1145	178	592	--	19.4	352	--	.48	169	--
13...	1220	111	705	--	21.8	396	--	.54	119	--
29...	1100	51	1000	7.8	22.5	657	677	.89	90.5	--
29...	1225	50	1050	--	21.9	646	--	.88	88.6	--
30... A	0925	49	1000	7.7	21.0	594	--	.81	78.6	--
AUG										
16...	1215	45	1090	--	20.8	669	--	.91	81.3	--
24...	1130	40	1050	8.1	19.5	674	691	.92	72.8	--
SEP										
02...	1100	38	1120	--	20.4	688	--	.94	70.6	--
03... A	0935	32	1050	7.8	23.0	696	--	.95	60.1	100
24...	1050	90	1100	7.8	21.5	712	725	.97	173	--

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TURBIDITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA, MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)
OCT										
28... A	1445	150	48	8.4	--	--	--	206	63	57
30...	1315	160	30	--	23	235	460	190	37	53
NOV										
20... A	1330	265	26	10.3	--	--	--	169	45	45
25...	1310	270	15	--	18	150	740	170	40	45
DEC										
18... A	1430	336	17	10.5	--	--	--	163	41	43
31...	1145	270	20	--	10	820	280	180	43	48
JAN										
16...	0930	339	20	--	21	88	190	170	49	46
30... A	1420	266	20	10.8	--	--	--	173	47	47
FEB										
09...	0930	273	110	--	54	--	--	180	54	48
23...	1115	200	700	--	270	8300	80	420	130	120
26... A	1300	253	47	10.3	--	--	--	187	56	52
MAR										
03...	1000	234	130	--	16	--	--	200	47	56
30...	1000	234	30	--	18	154	270	180	45	49
30... A	1350	230	16	9.9	--	--	--	189	57	51
APR										
22... A	1310	78	37	7.5	--	--	--	320	110	93
30...	1250	69	30	--	39	81000	8640	330	80	95
MAY										
20... A	1315	63	31	7.8	--	--	--	315	110	88
24...	1200	82	35	--	34	8830	1010	320	120	93
JUN										
25... A	1200	209	50	7.9	--	--	--	160	45	41
30...	1115	180	30	--	--	--	--	150	--	40
JUL										
29...	1100	51	45	--	48	>600	8448	310	95	88
30... A	0925	49	53	6.2	--	--	--	297	61	83
AUG										
24...	1130	40	50	--	63	320	300	330	110	97
SEP										
03... A	0935	32	30	5.4	--	--	--	308	67	82
24...	1050	90	130	--	--	81350	480	330	110	94

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

SANTA ANA RIVER BASIN

11074000 SANTA ANA RIVER BELOW PRADO DAM, CA--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT										
28... A	15	65	40	2.0	5.9	174	0	143	4.4	84
30...	14	69	43	2.2	6.2	186	0	153	3.7	71
NOV										
20... A	14	54	40	1.8	4.7	151	0	124	4.8	64
25...	14	59	42	2.0	5.7	158	0	130	3.2	64
DEC										
18... A	13	52	40	1.8	4.3	149	0	122	6.0	60
31...	14	57	40	1.9	5.0	164	0	135	3.3	61
JAN										
16...	13	52	40	1.7	3.9	145	0	119	2.3	62
30... A	13	54	40	1.8	3.9	154	0	126	3.1	66
FEB										
09...	15	74	45	2.4	13	156	0	128	4.0	100
23...	29	120	38	2.6	10	353	0	290	9.0	160
26... A	14	54	38	1.7	5.1	160	0	131	6.4	70
MAR										
03...	15	66	40	2.0	7.7	189	0	155	9.6	81
30...	15	58	40	1.9	5.1	170	0	139	4.3	69
30... A	15	59	40	1.9	4.3	161	0	132	5.1	73
APR										
22... A	22	103	40	2.5	9.0	260	0	213	8.3	135
30...	23	110	41	2.6	8.7	307	0	252	6.2	130
MAY										
20... A	23	112	43	2.7	9.0	250	0	205	6.3	138
24...	22	110	42	2.7	8.0	247	0	203	5.0	130
JUN										
25... A	14	56	42	1.9	3.9	140	0	115	5.6	65
30...	13	55	43	1.9	4.3	--	--	--	--	54
JUL										
29...	22	110	43	2.7	9.0	262	0	215	6.6	110
30... A	22	102	42	2.6	7.8	288	0	236	9.2	112
AUG										
24...	21	100	39	2.4	9.3	263	0	216	3.3	120
SEP										
03... A	25	110	43	2.7	10	294	0	241	7.5	121
24...	22	110	42	2.7	9.6	268	0	220	6.8	140

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DIS-SOLVED NITROGEN (N) (MG/L)
OCT										
28... A	75	.5	--	4.3	--	--	--	--	--	--
30...	77	.3	17	--	2.8	2.7	1.9	1.9	3.8	3.8
NOV										
20... A	62	.3	--	3.4	--	--	--	--	--	--
25...	64	.2	16	--	2.1	2.1	1.3	1.7	3.0	--
DEC										
18... A	60	.2	--	2.9	--	--	--	--	--	--
31...	70	.2	14	--	1.8	1.8	1.6	2.0	3.6	--
JAN										
16...	62	.3	13	--	2.0	1.9	1.1	1.3	2.4	3.2
30... A	64	.4	--	3.6	--	--	--	--	--	--
FEB										
09...	92	.5	8.6	--	2.8	2.7	.66	2.7	3.4	3.4
23...	150	.8	25	--	5.6	9.8	3.1	9.9	13	--
26... A	65	.5	--	4.7	--	--	--	--	--	--
MAR										
03...	77	.5	14	--	3.2	3.0	1.9	2.4	4.3	4.5
30...	71	.3	16	--	4.9	5.7	.93	.37	1.3	--
30... A	69	.5	--	4.5	--	--	--	--	--	--
APR										
22... A	117	.9	--	9.9	--	--	--	--	--	--
30...	120	.7	24	--	5.9	5.8	4.9	1.0	5.9	--
MAY										
20... A	121	.9	--	9.7	--	--	--	--	--	--
24...	120	.9	28	--	6.8	6.3	4.0	.90	4.9	--
JUN										
25... A	67	.4	--	1.8	--	--	--	--	--	--
30...	66	.4	12	--	1.5	--	1.0	1.0	2.0	--
JUL										
29...	120	.7	27	--	11	11	6.0	.00	3.3	--
30... A	118	1.0	--	7.7	--	--	--	--	--	--
AUG										
24...	120	.6	28	--	11	12	.27	6.2	6.5	--
SEP										
03... A	123	1.2	--	4.1	--	--	--	--	--	--
24...	130	.7	27	--	11	11	4.8	.00	3.0	--

11074000 SANTA ANA RIVER BELOW PRADO DAM, CA--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHATE (PO4) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)
OCT										
28... A	--	--	--	1.1	3.4	220	--	--	--	--
30...	6.6	29	1.4	.99	3.0	280	3900	20	--	2300
NOV										
20... A	--	--	--	.66	2.0	260	--	--	--	--
25...	5.1	23	.88	.72	2.2	300	--	520	7.5	750
DEC										
18... A	--	--	--	.55	1.7	160	--	--	--	--
31...	5.4	24	.91	.72	2.2	240	--	30	14	1300
JAN										
16...	4.4	19	.78	.61	1.9	210	2400	1700	5.8	2100
30... A	--	--	--	.80	2.5	250	--	--	--	--
FEB										
09...	6.2	27	1.0	.58	1.8	310	--	180	22	--
23...	19	82	5.1	1.7	5.2	420	--	100	69	9700
26... A	--	--	--	.81	2.5	180	--	--	--	--
MAR										
03...	7.5	33	1.4	.94	2.9	270	--	70	16	--
30... A	6.2	27	1.4	.94	2.9	380	--	10	7.0	3900
30...	--	--	--	.98	3.0	300	--	--	--	--
APR										
22... A	--	--	--	2.2	6.7	630	--	--	--	--
30...	12	52	2.7	2.1	6.4	500	4300	40	9.8	2900
MAY										
20... A	--	--	--	2.1	6.4	520	--	--	--	--
24...	12	52	--	2.3	7.1	700	--	70	--	2200
JUN										
25... A	--	--	--	.58	1.8	250	--	--	--	--
30...	3.5	15	1.0	.87	2.7	143	--	290	--	1900
JUL										
29...	14	63	4.5	3.5	11	530	6100	140	16	230
30... A	--	--	--	--	--	500	--	--	--	--
AUG										
24...	18	77	4.7	3.9	12	540	--	80	12	550000
SEP										
03... A	--	--	--	4.5	14	280	--	--	--	--
24...	14	62	4.6	3.2	9.8	610	--	20	33	--

11074000 SANTA ANA RIVER BELOW PRADO DAM, CA--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUS-PENDED CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUS-PENDED CHROMIUM (CR) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)
OCT 30...	1315	4	1	3	100	0	0	1	4	2	2	<50
JAN 16...	0930	2	0	2	0	<10	<9	1	10	10	0	<50
FEB 09...	0930	12	--	--	0	<10	--	--	10	--	--	<50
MAR 03...	1000	9	--	--	100	<10	--	--	20	--	--	<50
APR 30...	1250	4	0	4	--	<10	<7	3	10	10	0	<50
JUL 29...	1100	3	0	3	--	10	0	30	10	0	10	<50

DATE	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUS-PENDED MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT 30...	<49	1	20	14	6	0	0	3	150	70	80	.0
JAN 16...	<48	2	<10	<2	8	<100	<97	3	140	80	60	.0
FEB 09...	--	--	30	--	--	<100	--	--	250	--	--	.0
MAR 03...	--	--	20	--	--	100	--	--	450	--	--	.1
APR 30...	<48	2	30	25	5	<100	<90	10	270	120	150	.0
JUL 29...	<48	2	30	23	7	<100	<97	3	310	130	180	.1

DATE	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUS-PENDED SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	CYANIDE (CN) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT 30...	.0	.0	0	0	0	0	70	0	70	.00	.10
JAN 16...	.0	.0	0	0	0	<10	70	10	60	.00	.00
FEB 09...	--	--	--	--	--	<10	80	--	--	.01	.10
MAR 03...	--	--	--	--	--	<10	50	--	--	.02	.10
APR 30...	.0	.0	1	0	1	10	160	130	30	.02	.30
JUL 29...	.0	.1	1	0	1	30	80	50	30	.15	.00

11074000 SANTA ANA RIVER BELOW PRADO DAM, CA--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL PCB (UG/L)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ATRA-ZINE (UG/L)	TOTAL CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDE (UG/L)	P,P'DDE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDT (UG/L)
NOV 25...	1310	.0	ND	--	ND	ND	--	ND	--	ND	--	ND
JAN 16...	0930	.0	.00	--	--	.0	--	.00	--	.00	--	.00
FEB 09...	0930	.0	.00	--	--	.0	--	.00	--	.00	--	.00
MAR 03...	1000	.0	.00	--	--	<.1	--	.01	--	.01	--	.01
APR 30...	1250	.0	.00	--	--	.0	--	.00	--	.00	--	.00
JUN 30...	1140	--	ND	ND	--	ND	17	ND	ND	ND	6.2	ND
JUL 29...	1100	.0	.00	--	--	.0	--	.00	--	.00	--	.00
AUG 24...	1115	--	ND	--	ND	ND	--	ND	--	ND	--	ND

DATE	P,P'DDT IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DI-AZINON (UG/L)	DI-AZINON IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA-TERIAL (UG/KG)	TOTAL HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)
NOV 25...	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND
JAN 16...	--	.01	--	.00	--	.00	--	.00	--	.00	--	.00
FEB 09...	--	.03	--	.00	--	.00	--	.00	--	.00	--	.00
MAR 03...	--	.06	--	.00	--	.00	--	.00	--	.00	--	.00
APR 30...	--	.02	--	.00	--	.00	--	.00	--	.00	--	.00
JUN 30...	2.2	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND
JUL 29...	--	.06	--	.00	--	.00	--	.00	--	.00	--	--
AUG 24...	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND

DATE	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL MALA-THION (UG/L)	MALA-THION IN BOTTOM MA-TERIAL (UG/KG)	TOTAL METH-OXY-CHLOR (UG/L)	METHOX-YCHLOR IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL METHYL PARA-THION (UG/L)	METHYL PARA-THION IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL METHYL TRI-THION (UG/L)	METHYL TRI-THION IN BOT-TOM MA-TERIAL (UG/KG)
NOV 25...	--	ND	--	ND	--	ND	--	ND	--	ND	--
JAN 16...	--	.00	--	.08	--	--	--	.00	--	.00	--
FEB 09...	--	.00	--	.00	--	--	--	.00	--	.00	--
MAR 03...	--	.00	--	.00	--	--	--	.00	--	.00	--
APR 30...	--	.01	--	.01	--	--	--	.00	--	.00	--
JUN 30...	.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUL 29...	--	.02	--	.00	--	--	--	.00	--	.00	--
AUG 24...	--	ND	--	ND	--	ND	--	ND	--	ND	--

ND Material specifically analyzed for but not detected.

SANTA ANA RIVER BASIN

11074000 SANTA ANA RIVER BELOW PRADO DAM, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY....GENUS.....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
OCT 30	1315	CHLOROPHYTA ..CHLOROPHYCEAE ..CHLOROCOCCALES ...SCENEDESMACEAE....SCENEDESMUS ..VOLVOCALES ...CHLAMYDOMONADACEAE....CHLAMYDOMONAS	GREEN ALGAE	160	7
				81	3
		CHRYSTOPHYTA ..BACILLARIOPHYCEAE ..CENTRALES ...COSINODISCACEAE....CYCLOTELLA ..PENNALES ...ACHNANTHACEAE....ACHNANTHES ...CYMBELLACEAE....EPITHEMIA ...NAVICULACEAE....AMPHIPRORA....GYROSIGMA....NAVICULA ...NITZSCHIACEAE # ...NITZSCHIA ...SURIRELLACEAE....SURIRELLA	DIATOMS CENTRIC PENNATE NAVICULOID	320	14
				81	3
				160	7
				81	3
				81	3
				1,200	52
				81	3
		TOTAL PHYTOPLANKTON		2,300	
NOV 25	1310	CHLOROPHYTA ..CHLOROPHYCEAE ..CHLOROCOCCALES ...OOCYSTACEAE....ANKISTRODESMUS ...SCENEDESMACEAE *SCENEDESMUS	GREEN ALGAE	20	3
					0
		CHRYSTOPHYTA ..BACILLARIOPHYCEAE ..CENTRALES ...COSINODISCACEAE # ...CYCLOTELLA....MELOSIRA ..PENNALES ...CYMBELLACEAE *CYMBELLA *EPITHEMIA ...FRAGILARIACEAE # ...SYNEDRA ...NAVICULACEAE *AMPHIPRORA....NAVICULA ...NITZSCHIACEAE *DENTICULA # ...NITZSCHIA ...SURIRELLACEAE *SURIRELLA	DIATOMS CENTRIC PENNATE NAVICULOID	180 41	24 5
				180	24
				100	14
				200	27
					0
					0
		CYANOPHYTA ..MYXOPHYCEAE ...OSCILLATORIALES ...OSCILLATORIALES....SPIRULINA	BLUE-GREEN ALGAE FILAMENTOUS	20	3
		TOTAL PHYTOPLANKTON		750	

See footnotes at end of table.

11074000 SANTA ANA RIVER BELOW PRADO DAM, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY....GENUS.....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
NOV 27	1230	CHLOROPHYTA .CHLOROPHYCEAE ..CHLOROCOCCALES ...SCENEDESMACEAE....SCENEDESMUS ...ZYGNEMATALES....DESMIDIACEAE.....CLOSTERIUM	GREEN ALGAE PLACODERM DESMIDS	 41 20	 2 1
		CHRYSOPHYTA .BACILLARIOPHYCEAE ..CENTRALES ...COSGINODISCACEAE....CYCLOTELLA.....MELOSIRA ...PENNALES....ACHNANTHACEAE.....ACHNANTHES ...CYMBELLACEAE....CYMBELLA....FRAGILARIACEAE....SYNEDRA....GOMPHONEMATACEAE.....GOMPHONEMA....NAVICULACEAE #NAVICULA #NITZSCHIACEAE #NITZSCHIA	DIATOMS CENTRIC PENNATE NAVICULOID	 81 100 20 41 61 340 1,200	 4 5 1 1 2 3 16 56
		CYANOPHYTA .MYXOPHYCEAE ..OSCILLATORIALES ...OSCILLATORIAACEAE....LYNGBYA	BLUE-GREEN ALGAE FILAMENTOUS	 180	 9
		EUGLENOPHYTA .EUGLENOPHYCEAE ..EUGLENALES ...EUGLENACEAE....EUGLENA	EUGLENOIDS	 20	 1
		TOTAL PHYTOPLANKTON		2,100	
DEC 31	1145	CHRYSOPHYTA .BACILLARIOPHYCEAE ..CENTRALES ...COSGINODISCACEAE #CYCLOTELLA ...PENNALES....CYMBELLACEAE....EPITHEMIA....NAVICULACEAE #NAVICULA #NITZSCHIACEAE #NITZSCHIA #SURIRELLACEAE #SURIRELLA	DIATOMS CENTRIC PENNATE NAVICULOID	 320 53 370 530 53	 24 4 28 40 4
		TOTAL PHYTOPLANKTON		1,300	

See footnotes at end of table.

SANTA ANA RIVER BASIN

11074000 SANTA ANA RIVER BELOW PRADO DAM, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM ..CLASS ...ORDER ...FAMILY ...GENUS....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
JAN 16	0930	CHLOROPHYTA ..CHLOROPHYCEAE ..CHLOROCOCCALES ...OOCYSTACEAE *ANKISTRODESMUS	GREEN ALGAE		0
		CHRYSOPHYTA ..BACILLARIOPHYCEAE ..CENTRALES ...COSCINODISCACEAE ...CYCLOTELLA ...MELOSIRA ..PENNALES ...ACHNANTHACEAE ...COCCONEIS ...GOMPHONEMACEAE ...GOMPHONEMA ...NAVICULACEAE #NAVICULA ...NITZSCHIACEAE #NITZSCHIA ...SURIRELLACEAE *SURIRELLA	DIATOMS CENTRIC PENNATE NAVICULOID	130 63 63 63 560	6 3 3 3 26
		EUGLENOPHYTA ..EUGLENOPHYCEAE ..EUGLENALES ...EUGLENACEAE *PHACUS	EUGLENOIDS		0
		TOTAL PHYTOPLANKTON		2,100	
FEB 23	1115	CHLOROPHYTA ..CHLOROPHYCEAE ..CHLOROCOCCALES ...SCENEDESMACEAE #SCENEDESMUS	GREEN ALGAE		24
		CHRYSOPHYTA ..BACILLARIOPHYCEAE ..CENTRALES ...COSCINODISCACEAE ...MELOSIRA ..PENNALES ...ACHNANTHACEAE ...ACHNANTHES ...DIATOMACEAE ...DIATOMA ...NAVICULACEAE #NAVICULA ...NITZSCHIACEAE ...NITZSCHIA	DIATOMS CENTRIC PENNATE NAVICULOID	570 570 570 5,100 570	6 6 6 53 6
		TOTAL PHYTOPLANKTON		9,700	

See footnotes at end of table.

11074000 SANTA ANA RIVER BELOW PRADO DAM, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS .ORDER ...FAMILY ...GENUS....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
MAR 30	1000	CHRYSTOPHYTA .BACILLARIOPHYCEAE ..CENTRALES ...COSCIODISCACEAE # ...CYCLOTELLA ..PENNALES ...ACHNANTHACEAE ...COCCONEIS ...NAVICULACEAE # ...NAVICULA ...NITZSCHIACEAE # ...NITZSCHIA ...SURIRELLACEAE ...SURIRELLA	DIATOMS CENTRIC PENNATE NAVICULOID	 820 100 720 1,900 200	 21 3 18 50 5
		EUGLENOPHYTA .EUGLENOPHYCEAE ..EUGLENALES ...EUGLENACEAE ...EUGLENA	EUGLENOIDS	100	3
		TOTAL PHYTOPLANKTON		3,900	
APR 30	1250	CHLOROPHYTA .CHLOROPHYCEAE ..CHLOROCOCCALES ...OOCYSTACEAE....ANKISTRODESMUS	GREEN ALGAE	50	2
		CHRYSTOPHYTA .BACILLARIOPHYCEAE ..CENTRALES ...COSCIODISCACEAE # ...CYCLOTELLA ...MELOSIRA ..PENNALES ...ACHNANTHACEAE ...ACHNANTHES ...CYMBELLACEAE ...CYMBELLA ...FRAGILARIACEAE ...FRAGILARIA * ...SYNEDRA ...GOMPHONEMACEAE ...GOMPHONEMA ...NAVICULACEAE ...DIPLONEIS # ...NAVICULA ...NITZSCHIACEAE # ...NITZSCHIA ...SURIRELLACEAE ...SURIRELLA	DIATOMS CENTRIC PENNATE NAVICULOID	 50 100 50 150 250 50 500 1,300 100	 2 0 3 2 5 0 9 2 17 45 3
		CYANOPHYTA .MYXOPHYCEAE ...OSCILLATORIALES ...OSCILLATORIA ...OSCILLATORIA	BLUE-GREEN ALGAE FILAMENTOUS	300	10
		TOTAL PHYTOPLANKTON		2,900	

See footnotes at end of table.

11074000 SANTA ANA RIVER BELOW PRADO DAM, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY....GENUS.....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
MAY 24	1200	CHLOROPHYTA .CHLOROPHYCEAE ..CHLOROCOCCALES ...OOCYSTACEAE....ANKISTRODESMUS....KIRCHNERIELLA ..VOLVOCALES ...PHACOTACEAE....PHACOTUS	GREEN ALGAE	48 48 48	2 2 2
		CHRYSTOPHYTA .BACILLARIOPHYCEAE ..CENTRALES ...COSKINODISCACEAE....CYCLOTTELLA ..PENNALES ...ACHNANTHACEAE * ...ACHNANTHES ...FRAGILARIACEAE * ...SYNEDRA ...GOMPHONEMACEAE....GOMPHONEMA ...NAVICULACEAE # ...NAVICULA ...NITZSCHIACEAE # ...NITZSCHIA	DIATOMS CENTRIC PENNATE NAVICULOID	96 240 820 910	4 11 37 41
		TOTAL PHYTOPLANKTON		2,200	
JUNE 30	1115	CHLOROPHYTA .CHLOROPHYCEAE ..CHLOROCOCCALES ...OOCYSTACEAE....ANKISTRODESMUS	GREEN ALGAE	83	4
		CHRYSTOPHYTA .BACILLARIOPHYCEAE ..CENTRALES ...COSKINODISCACEAE....CYCLOTTELLA ..PENNALES ...NAVICULACEAE....NAVICULA ...NITZSCHIACEAE # ...NITZSCHIA	DIATOMS CENTRIC PENNATE NAVICULOID	170 83 910	9 4 48
		CYANOPHYTA .HYXOPHYCEAE ..CHROOCOCCALES ...CHROOCCACEAE # ...ANACYSTIS	BLUE-GREEN ALGAE COCCOID	660	35
		TOTAL PHYTOPLANKTON		1,900	

See footnotes at end of table.

11074000 SANTA ANA RIVER BELOW PRADO DAM, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
		.CLASS ..ORDER ...FAMILY....GENUS.....SPECIES			
JULY 30	1100	CHRYSOPHYTA			
		.BACILLARIOPHYCEAE	DIATOMS		
		..CENTRALES	CENTRIC		
		...COSCINODISACEAE			
		....CYCLOTELLA		4	2
		....MELOSIRA		8	3
		..PENNALES	PENNATE		
		...FRAGILARIACEAE			
		....SYNEDRA		4	2
		...GOMPHONEMACEAE			
		....GOMPHONEMA		16	7
		...NAVICULACEAE	NAVICULOID		
		....GYROSIGMA		4	2
		....NAVICULA		27	12
...NITZSCHIACEAE					
#NITZSCHIA		160	69		
...SURIRELLACEAE					
....SURIRELLA		8	3		
TOTAL PHYTOPLANKTON				230	
AUG 24	1130	CHRYSOPHYTA			
		.BACILLARIOPHYCEAE	DIATOMS		
		..PENNALES	PENNATE		
		...NITZSCHIACEAE			
		*NITZSCHIA			0
		CYANOPHYTA	BLUE-GREEN ALGAE		
		.MYXOPHYCEAE			
		..OSCILLATORIALES	FILAMENTOUS		
		...NOSTOCACEAE			
		....ANABAENA		28,000	5
#CYLINDROSPERMUM		330,000	60		
...SCYTONEMACEAE					
#PLECTONEMA		190,000	35		
TOTAL PHYTOPLANKTON				550,000	

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

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

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll ^a	Chlorophyll ^b	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight	(mg/m ²)	(mg/m ²)		
Feb. 29	31	9.6	7.5	5.2	0.7	410	Polyethylene strip

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	806	756	782	---	---	---	578	550	563	637	613	625
2	796	750	772	---	---	---	576	544	562	627	603	616
3	790	738	766	1140	1110	1120	574	550	560	635	609	623
4	782	730	755	1140	1110	1120	630	562	615	641	611	625
5	768	722	742	1150	1130	1140	580	540	565	639	561	607
6	874	716	767	1150	1120	1140	566	542	552	587	563	575
7	1080	894	1020	1150	1120	1140	560	530	545	587	554	572
8	1090	1050	1070	1140	1130	1130	678	524	559	590	554	571
9	1100	1060	1080	1140	1120	1130	724	692	706	624	558	579
10	1100	1080	1090	1150	849	1110	724	704	718	576	554	565
11	1120	1080	1100	812	702	752	756	720	740	586	564	573
12	1120	1090	1110	720	662	697	776	580	727	596	552	577
13	1110	1080	1100	712	686	697	794	682	765	582	554	570
14	1120	1080	1090	714	674	700	780	762	773	582	562	572
15	---	---	---	714	672	695	780	760	768	586	558	570
16	1110	1070	1080	716	668	694	764	552	701	580	552	566
17	1100	1050	1090	716	688	703	630	560	583	580	546	559
18	1010	814	863	715	636	693	590	566	577	590	558	572
19	834	786	815	646	590	612	579	561	569	604	568	584
20	825	776	795	614	590	602	581	557	570	636	600	614
21	816	776	802	616	586	601	612	572	588	632	598	610
22	840	808	826	606	578	594	619	573	590	928	596	665
23	836	782	815	602	564	582	641	613	626	1140	930	1090
24	812	764	794	574	554	565	638	612	625	716	564	606
25	804	762	783	611	562	593	636	608	621	612	574	592
26	812	762	789	586	544	568	627	597	612	606	572	589
27	808	712	777	584	548	569	630	606	619	600	576	587
28	722	672	704	644	572	611	634	596	616	602	574	589
29	706	656	683	650	590	620	617	589	603	634	576	600
30	716	656	693	600	560	580	631	603	618	632	574	601
31	---	---	---	---	---	---	641	617	629	640	592	609
MONTH	1120	656	881	1150	544	777	794	524	628	1140	546	608

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	638	610	624	966	580	738	1120	656	938	1160	1140	1150
2	626	540	582	744	558	669	1180	1130	1160	1160	1140	1150
3	608	562	579	838	680	771	1190	1170	1180	1160	1130	1140
4	886	492	614	802	682	736	1270	830	1040	1150	1120	1140
5	1040	730	867	1130	786	973	1090	918	1010	1140	1100	1120
6	1030	482	811	1380	1150	1240	1180	1110	1150	1140	1110	1130
7	1180	784	999	1220	1190	1200	1190	1180	1180	1160	862	1040
8	1150	592	917	1180	1160	1170	1180	1160	1170	1040	904	1010
9	836	746	779	1190	1150	1170	1160	1140	1150	1030	1010	1020
10	762	618	690	1200	624	1010	1150	1130	1140	1020	988	1000
11	666	562	608	656	604	620	1150	1120	1130	1120	976	1050
12	622	554	586	772	606	644	1120	1100	1110	1090	1080	1090
13	806	582	681	650	598	622	1150	604	869	1100	1050	1070
14	882	734	784	626	586	606	1070	922	1010	1110	1070	1090
15	956	846	897	696	592	635	1140	1050	1090	1090	1070	1080
16	1040	910	969	642	586	613	1080	856	1000	1080	1050	1070
17	1100	998	1040	642	588	618	1120	1080	1100	1060	1050	1050
18	1120	1040	1080	636	580	609	1110	1090	1100	1110	1080	1100
19	1140	1080	1100	626	590	608	1120	1080	1100	1160	1100	1120
20	1140	1110	1120	688	616	664	1160	1090	1110	1150	1090	1110
21	1210	1130	1170	692	668	682	1120	1100	1110	1130	1090	1100
22	1300	1190	1230	718	668	687	1090	1080	1090	1100	1080	1090
23	1390	1190	1300	716	674	694	1120	1090	1110	1090	1080	1080
24	1190	1160	1180	720	672	692	1120	1100	1110	1110	1070	1090
25	1180	626	1050	704	664	686	1110	1090	1100	1090	1070	1080
26	648	608	626	696	648	677	1110	1090	1100	1120	1080	1100
27	650	606	623	694	636	670	1110	1100	1100	1070	588	695
28	656	612	629	692	638	668	1120	1100	1110	605	571	592
29	644	602	623	680	620	655	1130	1120	1130	708	578	615
30	---	---	---	663	619	647	1170	1130	1140	609	567	592
31	---	---	---	732	628	666	---	---	---	600	554	581
MONTH	1390	482	854	1380	558	753	1270	604	1090	1160	554	1010

11074000 SANTA ANA RIVER BELOW PRADO DAM, CA--Continued

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

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	651	559	598	595	541	575	1140	1050	1090	1130	1070	1090
2	595	565	582	569	519	555	1120	1050	1080	1130	1090	1120
3	593	569	583	560	520	545	1080	1040	1070	1160	1080	1110
4	587	557	576	575	525	556	1090	1060	1080	1110	1090	1100
5	580	544	565	633	543	579	1080	1030	1070	1110	1080	1090
6	580	544	563	718	630	684	1060	1030	1040	1090	1060	1070
7	588	546	566	707	651	683	1080	1050	1070	1220	1060	1090
8	578	546	562	680	562	609	1080	1060	1070	1210	1060	1120
9	583	555	569	707	637	680	1080	1060	1070	1160	1080	1130
10	660	562	586	696	634	671	1140	1050	1070	1180	693	1030
11	583	519	553	696	638	672	1130	1090	1110	918	576	788
12	553	507	534	709	645	682	1090	1070	1080	631	563	595
13	542	492	520	706	644	680	1080	1070	1080	788	620	689
14	549	505	524	708	644	681	1090	1070	1080	1060	803	944
15	584	531	562	836	652	715	1090	1080	1080	1300	1070	1160
16	584	550	570	1060	836	1000	1100	1090	1090	1230	1180	1200
17	582	550	568	1130	1030	1080	1110	1090	1100	1180	1160	1170
18	575	511	551	1120	1070	1090	1110	1100	1110	1190	1160	1170
19	563	509	542	1080	1050	1070	1100	1080	1090	1180	1150	1160
20	562	516	540	1080	1040	1070	1100	1080	1090	1170	1140	1150
21	562	510	537	1140	1050	1090	1090	1070	1080	1150	1120	1140
22	551	501	530	1110	1080	1090	1090	1070	1080	1140	1100	1130
23	559	505	532	1110	1070	1090	1090	1050	1060	1110	1090	1100
24	545	501	526	1100	1070	1080	1070	1050	1060	1110	1100	1110
25	577	519	558	1120	1060	1070	1080	1060	1070	1100	864	973
26	619	569	600	1070	1050	1060	1100	1080	1080	1110	1040	1090
27	619	565	596	1110	1030	1070	1100	1070	1080	1120	1070	1090
28	615	539	588	1080	1030	1060	1080	1070	1080	1110	1060	1080
29	577	531	556	1080	1030	1050	1090	1080	1080	1100	1070	1080
30	581	523	558	1080	1040	1060	1080	1070	1070	1100	974	1080
31	---	---	---	1080	1040	1060	1080	1060	1070	---	---	---
MONTH	660	492	560	1140	519	860	1140	1030	1080	1300	563	1060
YEAR	1390	482	847									

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.5	18.0	20.0	---	---	---	13.0	8.0	10.0	8.5	5.0	7.0
2	22.0	17.5	20.0	---	---	---	13.5	9.0	11.0	9.0	4.0	6.5
3	22.5	18.5	20.5	---	---	---	13.0	9.5	11.0	7.0	4.5	5.0
4	22.5	18.0	20.5	17.5	12.0	15.0	12.0	10.5	11.5	5.5	5.0	5.0
5	21.5	17.0	20.0	16.5	13.0	15.0	12.5	11.0	11.5	10.5	5.5	8.0
6	21.0	18.0	19.5	17.0	14.5	15.5	13.0	9.0	11.0	10.5	6.0	8.0
7	20.5	18.0	19.0	16.5	12.5	14.5	13.0	8.5	11.0	11.0	6.0	8.5
8	19.0	14.5	17.0	16.0	14.0	15.0	14.0	9.0	11.5	11.0	6.0	8.5
9	19.0	15.0	17.0	16.0	13.0	14.5	14.0	9.5	12.0	11.5	6.5	9.0
10	18.5	16.0	17.0	16.0	12.0	14.0	13.0	9.5	11.5	11.5	8.0	9.5
11	19.5	17.5	18.0	15.0	11.5	13.5	13.5	12.0	12.5	11.5	6.5	9.0
12	19.0	15.5	17.0	15.0	12.0	13.5	12.5	11.0	12.0	11.0	6.0	8.5
13	18.0	13.5	16.0	16.0	12.5	14.0	12.0	10.5	11.0	12.0	6.0	9.0
14	19.0	13.0	16.0	15.0	10.0	13.0	10.5	8.5	9.5	12.5	6.5	9.5
15	---	---	---	14.5	9.5	12.5	10.0	6.0	8.5	13.0	7.0	10.0
16	---	---	---	14.0	10.0	12.0	11.0	6.5	8.5	14.0	8.5	11.0
17	---	---	---	14.0	11.0	13.0	11.0	6.5	9.0	14.0	8.5	11.5
18	---	---	---	13.5	11.5	12.5	11.5	6.5	9.0	13.0	8.5	11.0
19	---	---	---	13.5	9.0	11.0	11.0	7.0	9.0	13.0	9.0	11.0
20	---	---	---	13.0	8.0	10.5	11.0	7.0	9.0	13.5	9.5	11.5
21	---	---	---	13.0	9.0	11.0	12.0	9.0	10.5	13.0	9.0	11.0
22	---	---	---	13.5	10.0	11.5	11.5	9.0	10.0	14.0	9.0	11.5
23	---	---	---	14.0	8.5	11.5	12.0	7.5	10.0	15.5	10.0	12.5
24	---	---	---	15.0	12.0	13.0	12.0	7.5	10.0	13.0	8.5	10.5
25	---	---	---	14.5	9.5	12.0	12.0	7.5	9.5	12.5	7.5	10.0
26	---	---	---	14.0	11.0	13.0	12.5	7.0	9.5	13.0	8.0	10.5
27	---	---	---	13.0	11.0	12.0	11.0	8.0	9.5	13.5	6.5	10.0
28	---	---	---	12.0	10.0	11.0	13.0	8.5	11.0	14.0	7.5	11.0
29	---	---	---	11.0	8.0	10.0	13.0	9.5	11.0	14.0	8.0	11.0
30	---	---	---	11.5	7.5	9.5	12.0	7.5	10.0	14.0	7.5	10.5
31	---	---	---	---	---	---	11.0	8.0	9.5	15.0	8.0	11.5
MONTH	---	---	---	17.5	7.5	12.5	14.0	6.0	10.5	15.5	4.0	9.5

11074000 SANTA ANA RIVER BELOW PRADO DAM, CA--Continued

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

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	98	192	51	66	141	25	318	59	51
2	99	167	45	66	140	25	323	58	51
3	97	144	38	66	140	25	345	57	53
4	89	132	32	66	140	25	280	59	45
5	84	123	28	66	141	25	327	60	53
6	88	121	29	66	141	25	362	61	60
7	54	111	16	66	142	25	366	62	61
8	49	103	14	66	143	25	339	305	219
9	48	103	13	66	143	25	180	220	108
10	48	104	13	71	152	29	175	80	38
11	51	104	14	149	157	63	168	75	34
12	51	105	14	149	58	23	178	138	76
13	48	105	14	152	56	23	203	114	64
14	49	106	14	155	55	23	181	73	36
15	50	106	14	155	55	23	174	69	32
16	52	107	15	154	53	22	194	187	121
17	52	107	15	153	51	21	331	400	370
18	96	108	28	176	105	62	333	65	58
19	100	109	29	258	231	159	330	57	51
20	100	111	30	260	130	91	330	57	51
21	100	114	31	256	98	68	354	57	54
22	100	116	31	254	95	65	335	58	52
23	100	118	32	258	93	65	287	58	45
24	100	123	33	251	91	62	286	56	43
25	100	125	34	264	89	63	286	54	42
26	100	128	35	269	64	46	281	52	39
27	120	130	42	317	64	55	276	50	37
28	150	138	56	329	62	55	271	50	37
29	150	145	59	339	61	56	270	49	36
30	160	144	62	321	60	52	268	50	36
31	95	142	36	---	---	---	269	---	---
TOTAL	2678	---	917	5284	---	1351	8620	---	2053
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	265	63	45	255	83	57	216	102	59
2	262	57	40	292	82	65	217	120	70
3	266	46	33	334	81	73	265	190	136
4	264	44	31	286	294	230	286	150	116
5	281	43	33	197	177	100	270	57	42
6	329	41	36	270	362	311	203	382	140
7	328	40	35	279	281	222	102	408	114
8	338	44	40	307	274	227	97	90	24
9	340	48	44	321	143	124	97	84	22
10	339	46	42	296	210	168	139	384	151
11	334	44	40	279	165	124	247	163	105
12	329	42	37	266	110	79	250	58	39
13	339	38	35	215	75	44	256	50	35
14	338	50	46	180	57	28	260	42	29
15	332	62	56	180	53	26	263	35	25
16	328	52	46	178	48	23	280	27	20
17	337	52	47	177	44	21	290	25	20
18	334	51	46	206	35	19	290	19	15
19	316	51	44	254	30	21	294	17	13
20	270	50	36	264	25	18	284	31	24
21	269	50	36	256	25	17	277	48	36
22	235	292	121	237	25	16	263	60	43
23	95	231	59	162	1010	382	246	72	48
24	287	159	123	107	600	160	237	75	48
25	286	90	69	132	250	83	234	77	49
26	273	80	59	252	229	147	230	70	43
27	281	77	58	263	75	53	230	72	45
28	283	78	60	267	74	53	230	69	43
29	274	78	58	270	86	63	227	64	39
30	274	84	62	---	---	---	234	62	39
31	271	84	61	---	---	---	234	60	38
TOTAL	9097	---	1578	6982	---	2954	7248	---	1670

SANTA ANA RIVER BASIN

11074000 SANTA ANA RIVER BELOW PRADO DAM, CA--Continued

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

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	158	244	85	63	148	25	258	80	56
2	79	170	36	60	140	23	248	75	50
3	73	165	33	62	137	23	254	68	47
4	107	122	36	66	130	23	255	60	41
5	128	157	56	77	123	26	255	53	36
6	77	147	31	76	115	24	255	50	34
7	70	162	31	108	141	45	257	45	31
8	72	167	32	90	71	19	255	43	30
9	70	178	34	74	62	12	257	44	31
10	68	177	32	71	75	14	311	394	388
11	66	176	31	69	95	18	362	353	368
12	73	175	34	66	113	20	370	47	47
13	158	186	80	59	110	18	362	48	47
14	130	56	20	60	110	18	326	418	325
15	92	56	14	60	108	17	244	270	181
16	105	84	28	57	105	16	248	175	117
17	81	40	8.7	56	102	15	245	160	106
18	79	115	25	58	100	16	237	145	93
19	75	173	35	56	98	15	237	126	81
20	77	216	45	58	95	15	238	117	75
21	77	200	42	56	100	15	234	110	69
22	76	156	32	56	108	16	229	107	66
23	79	110	23	61	112	18	231	109	68
24	72	110	21	71	115	22	229	114	70
25	73	112	22	75	118	24	198	119	64
26	73	114	22	75	120	24	153	123	51
27	72	115	22	216	324	198	152	130	53
28	72	125	24	252	85	58	152	135	55
29	68	135	25	247	82	55	170	144	66
30	67	150	27	253	83	57	170	163	75
31	---	---	---	252	84	57	---	---	---
TOTAL	2567	---	986.7	2960	---	946	7412	---	2821
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	180	152	74	42	152	17	33	133	12
2	203	138	76	41	150	17	34	132	12
3	200	137	74	45	148	18	36	132	13
4	203	135	74	46	144	18	40	131	14
5	178	288	108	41	140	15	44	131	16
6	110	248	73	33	135	12	47	130	16
7	107	175	51	36	142	14	46	130	16
8	167	280	135	35	149	14	64	130	22
9	109	175	52	34	151	14	49	130	17
10	107	176	51	38	149	15	149	631	458
11	107	177	51	42	143	16	423	344	449
12	107	179	52	37	138	14	410	118	131
13	105	180	51	38	132	14	398	105	113
14	107	180	52	41	130	14	378	93	95
15	105	180	51	41	125	14	329	176	149
16	53	160	23	38	123	13	114	921	284
17	43	160	19	36	121	12	100	630	170
18	45	160	19	37	155	15	86	590	137
19	49	160	21	43	189	22	87	545	128
20	47	160	20	49	213	28	86	500	116
21	47	155	20	53	200	29	85	450	103
22	50	150	20	43	180	21	86	440	102
23	49	145	19	40	161	17	87	430	101
24	45	152	18	36	145	14	86	420	98
25	42	158	18	36	140	14	137	277	111
26	46	164	20	35	138	13	98	145	38
27	47	170	22	41	135	15	90	160	39
28	47	173	22	37	135	13	87	175	41
29	46	170	21	36	134	13	86	180	42
30	45	158	19	33	134	12	98	200	53
31	45	155	19	34	133	12	---	---	---
TOTAL	2841	---	1345	1217	---	489	3893	---	3096
YEAR	60799.0		20206.7						

11074000 SANTA ANA RIVER BELOW PRADO DAM, CA--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)	SIMA- ZINE TOTAL (UG/L)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
NOV 25...	ND	--	--	--	ND	--	ND	--	ND	ND	ND
JAN 16...	.00	--	.00	--	0	--	.00	--	.11	.00	.01
FEB 09...	.00	--	.00	--	0	--	.00	--	.07	.00	.00
MAR 03...	.00	--	.00	--	0	--	.00	--	.00	.00	.00
APR 30...	.00	--	.00	--	0	--	.00	--	.00	.00	.00
JUN 30...	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND
JUL 29...	.00	--	.00	--	0	--	.00	--	.06	.00	.00
AUG 24...	ND	--	--	ND	ND	--	ND	--	ND	ND	ND

ND Material specifically analyzed for but not detected.

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

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER 0.002 MM	SUS. SED. FALL DIAM. % FINER 0.004 MM
OCT 07...	0910	--	61	102	17	--	--
30...	1315	14.8	160	144	62	--	--
NOV 25...	1310	11.9	270	89	65	--	--
DEC 09...	0900	--	185	163	81	--	--
31...	1145	11.2	270	71	52	--	--
JAN 16...	0930	8.0	339	65	59	--	--
23...	1430	--	339	84	77	--	--
27...	1000	--	294	78	62	--	--
FEB 06...	0930	--	221	180	107	--	--
09...	0930	13.1	273	157	116	--	--
09...	1110	--	266	157	113	--	--
13...	1045	--	172	67	31	--	--
23...	1115	11.2	200	2280	1230	--	--
24...	0945	--	100	658	178	45	65
MAR 03...	1145	11.0	234	191	121	--	--
30...	1000	11.8	234	71	45	--	--
APR 09...	1000	--	75	179	36	--	--
13...	0945	--	165	380	169	38	51
23...	0935	--	84	110	25	--	--
30...	1250	19.2	69	147	27	--	--
MAY 24...	1120	17.5	82	118	26	--	--
JUN 30...	1115	24.5	180	170	83	--	--
JUL 06...	1000	--	120	177	57	49	60
29...	1100	22.5	51	170	23	--	--
AUG 10...	0945	--	46	153	19	53	67
24...	1110	19.5	40	135	15	--	--
SEP 11...	1000	--	329	207	184	51	59
21...	1030	--	88	453	108	46	64
24...	1050	21.5	90	411	100	--	--

SANTA ANA RIVER BASIN

11074000 SANTA ANA RIVER BELOW PRADO DAM, CA--Continued

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

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
OCT							
07...	--	--	--	--	99	100	--
30...	--	--	--	--	80	--	--
NOV							
25...	--	--	--	--	62	--	--
DEC							
09...	--	--	--	--	96	99	100
31...	--	--	--	--	84	--	--
JAN							
16...	--	--	--	--	81	--	--
23...	--	--	--	--	100	--	--
27...	--	--	--	--	99	100	--
FEB							
06...	--	--	--	--	99	100	--
09...	--	--	--	--	98	99	100
09...	--	--	--	--	98	99	100
13...	--	--	--	--	99	100	--
23...	--	--	--	--	99	--	--
24...	82	96	100	--	--	--	--
MAR							
03...	--	--	--	--	--	--	--
30...	--	--	--	--	92	--	--
APR							
09...	--	--	--	--	87	91	100
13...	64	79	91	--	97	100	--
23...	--	--	--	--	99	100	--
30...	--	--	--	--	74	--	--
MAY							
24...	--	--	--	--	81	--	--
JUN							
30...	--	--	--	--	--	--	--
JUL							
06...	73	87	96	--	99	100	--
29...	--	--	--	--	--	--	--
AUG							
10...	81	94	100	--	--	--	--
24...	--	--	--	--	99	100	--
SEP							
11...	64	72	78	--	82	83	100
21...	81	94	99	100	--	--	--
24...	--	--	--	--	--	--	--

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

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
AUG						
26...	1000	84	17.5	207	47	98
SEP						
30...	1300	84	19.5	206	47	54

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

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

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	90	100	24	56	140	21	292	210	166
2	87	90	21	62	140	23	296	340	272
3	83	90	20	64	130	22	304	330	271
4	74	85	17	64	120	21	284	280	215
5	71	85	16	66	110	20	296	270	216
6	77	800	166	67	100	18	312	320	270
7	52	700	98	71	90	17	324	370	324
8	44	250	30	71	90	17	324	410	359
9	38	200	21	72	90	17	206	233	136
10	41	800	89	74	90	18	185	160	80
11	47	600	76	127	327	114	172	120	56
12	47	400	51	140	235	89	167	90	41
13	28	600	45	150	220	89	185	90	45
14	50	250	34	152	220	90	167	80	36
15	41	200	22	152	200	82	170	70	32
16	57	250	38	157	180	76	200	800	432
17	59	250	40	172	200	93	354	300	287
18	82	420	93	180	268	132	320	135	117
19	90	250	61	235	970	615	320	120	104
20	94	200	51	249	980	659	324	110	96
21	96	200	52	260	890	625	336	110	100
22	100	200	54	260	660	463	344	105	98
23	104	200	56	264	410	292	304	90	74
24	102	150	41	264	260	185	296	85	68
25	106	150	43	260	160	112	296	85	68
26	106	160	46	260	150	105	296	85	68
27	108	180	52	280	190	144	288	85	66
28	134	300	109	280	200	151	276	85	63
29	142	200	77	292	180	142	272	90	66
30	152	230	94	296	170	136	268	80	58
31	106	180	52	---	---	---	256	70	48
TOTAL	2508	---	1689	5097	---	4588	8434	---	4332
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	253	70	48	249	150	101	272	545	468
2	246	65	43	264	170	121	255	404	383
3	246	65	43	320	185	160	336	471	408
4	239	60	39	297	191	156	352	280	266
5	246	65	43	224	168	102	308	230	191
6	268	80	58	274	390	294	248	175	117
7	272	75	55	316	284	244	142	100	38
8	280	75	57	376	368	381	135	100	36
9	296	85	68	409	584	678	132	100	36
10	292	75	59	320	345	298	143	124	51
11	292	80	63	312	265	223	228	195	120
12	280	75	57	308	195	162	239	124	80
13	292	80	63	302	115	94	249	85	57
14	288	80	62	256	55	38	253	75	51
15	280	85	64	216	41	24	253	66	45
16	268	90	65	201	35	19	268	60	43
17	272	93	68	190	30	15	284	55	42
18	272	95	70	198	45	24	284	55	42
19	260	95	67	222	65	39	288	65	51
20	242	100	65	232	80	50	288	60	47
21	232	120	75	219	80	47	276	60	45
22	220	130	77	195	78	41	268	60	43
23	132	135	48	148	70	28	260	60	42
24	253	335	221	89	60	14	239	65	42
25	280	120	91	94	94	29	232	65	41
26	272	110	81	232	280	175	232	70	44
27	268	100	72	242	135	88	228	70	43
28	272	90	66	249	90	61	232	74	46
29	268	120	87	253	77	53	225	70	43
30	272	200	147	---	---	---	232	70	44
31	268	150	109	---	---	---	235	100	63
TOTAL	8121	---	2231	7207	---	3759	7616	---	3068

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

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

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	183	120	59	64	60	10	232	240	150
2	180	120	58	59	66	11	222	220	132
3	80	70	15	59	65	10	232	205	128
4	105	85	24	62	80	13	246	180	120
5	130	200	70	74	85	17	253	150	102
6	90	100	24	78	90	19	260	130	91
7	78	75	16	96	130	34	280	110	83
8	75	70	14	96	120	31	296	100	80
9	75	70	14	76	125	26	312	110	93
10	70	70	13	71	125	24	344	104	100
11	65	70	12	74	179	39	425	260	298
12	70	70	13	71	240	46	430	230	267
13	142	328	155	62	225	38	415	190	213
14	142	180	69	57	175	27	360	175	170
15	96	115	30	57	135	21	256	145	100
16	108	134	42	54	90	13	235	120	76
17	85	85	20	51	85	12	232	100	63
18	83	80	18	51	80	11	216	100	58
19	81	90	20	53	70	10	213	100	58
20	81	100	22	53	70	10	213	100	58
21	81	115	25	56	65	9.8	210	130	74
22	78	110	23	56	60	9.1	213	110	63
23	79	100	21	59	50	8.0	213	100	58
24	76	85	17	72	65	13	210	105	60
25	74	82	16	79	80	17	192	110	57
26	72	70	14	85	75	17	150	110	45
27	71	70	13	162	440	210	147	110	44
28	71	69	13	225	280	170	150	110	45
29	67	70	13	204	260	143	165	128	57
30	64	70	12	210	260	147	167	130	59
31	---	---	---	216	250	146	---	---	---
TOTAL	2752	---	875	2742	---	1311.9	7489	---	3002
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	165	170	76	48	90	12	33	60	5.3
2	185	250	125	45	90	11	30	40	3.2
3	187	240	121	50	85	11	41	60	6.6
4	187	215	109	53	85	12	38	110	11
5	178	200	96	48	80	10	42	120	14
6	125	170	57	38	80	8.2	48	110	14
7	118	160	51	38	80	8.2	43	123	15
8	148	234	98	37	80	8.0	61	270	48
9	126	165	56	36	80	7.8	49	180	24
10	116	120	38	45	120	15	122	597	293
11	116	115	36	41	205	23	318	551	470
12	116	125	39	37	215	21	356	310	298
13	116	125	39	38	190	19	365	340	335
14	114	120	37	37	165	16	356	240	231
15	118	125	40	37	175	17	336	110	100
16	65	110	19	34	170	16	150	125	51
17	50	100	13	31	150	13	109	160	47
18	45	100	12	24	130	8.4	100	190	51
19	48	115	15	31	110	9.2	93	220	55
20	50	115	16	37	85	8.5	93	240	60
21	53	115	16	43	80	9.3	91	270	66
22	54	110	16	40	90	9.7	93	295	74
23	57	110	17	35	100	9.5	93	320	80
24	53	105	15	34	100	9.2	91	350	86
25	47	90	11	34	100	9.2	133	3870	1730
26	53	95	14	34	100	9.2	109	840	247
27	56	100	15	35	95	9.0	98	600	159
28	56	100	15	36	90	8.7	92	600	149
29	51	95	13	35	85	8.0	88	600	143
30	47	95	12	33	80	7.1	88	600	143
31	53	90	13	33	75	6.7	---	---	---
TOTAL	2953	---	1250	1177	---	349.9	3759	---	5009.1
YEAR	59855.0		31464.9						

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

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

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1975	2508.00	1689.00	984	2670
NOVEMBER ...	5097.00	4588.00	4760	9350
DECEMBER ...	8434.00	4332.00	10400	14700
JANUARY 1976	8121.00	2231.00	9410	11600
FEBRUARY ...	7207.00	3759.00	8410	12200
MARCH	7616.00	3068.00	8530	11600
APRIL	2752.00	875.00	1210	2080
MAY	2742.00	1311.90	1400	2720
JUNE	7489.00	3002.00	8860	11900
JULY	2953.00	1250.00	1530	2780
AUGUST	1177.00	349.90	156	506
SEPTEMBER ..	3759.00	5009.10	3360	8370
TOTAL	59855.00	31464.90	59010	90476

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

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
OCT										
10...	1410	21.0	47	1370	174	25	37	48	70	84
13...	1305	20.0	44	1550	184	24	36	50	67	79
17...	1735	16.0	66	288	51	24	33	42	51	62
28...	1510	15.0	142	366	140	24	32	41	52	60
30...	1215	--	155	298	125	--	--	--	--	--
NOV										
27...	1315	12.5	280	198	150	--	--	--	--	--
DEC										
08...	1300	12.0	328	418	370	19	27	33	42	55
JAN										
08...	1315	12.5	284	76	58	--	--	--	--	--
12...	1330	--	284	71	54	--	--	--	--	--
23...	1300	13.0	125	137	46	--	--	--	--	--
28...	1515	--	268	85	62	--	--	--	--	--
FEB										
06...	0915	12.0	217	445	261	32	42	51	61	67
09...	0835	--	492	914	1210	39	48	54	62	69
MAR										
12...	1130	13.5	231	124	77	--	--	--	--	--
APR										
13...	1315	16.5	141	570	217	32	42	55	72	86
27...	1420	18.5	78	69	15	--	--	--	--	--
MAY										
02...	1510	22.0	67	66	12	--	--	--	--	--
18...	0930	20.0	60	84	14	--	--	--	--	--
25...	1400	19.5	92	89	22	--	--	--	--	--
27...	0930	19.0	167	846	381	28	43	60	77	94
SEP										
10...	1030	22.5	58	182	29	--	--	--	--	--
11...	1715	21.0	305	253	208	48	56	63	69	77
25...	1300	20.5	201	7000	3800	50	69	90	97	99
25...	1745	20.5	150	8490	3440	54	73	92	98	100

SANTA ANA RIVER BASIN

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

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

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT									
10...	93	--	97	--	100	--	--	--	--
13...	--	83	--	85	--	86	88	93	97
17...	--	78	--	94	--	98	100	--	--
28...	--	67	--	78	--	92	100	--	--
30...	--	60	--	76	--	89	99	100	--
NOV									
27...	--	60	--	66	--	74	91	100	--
DEC									
08...	--	68	--	85	--	92	97	100	--
JAN									
08...	--	79	--	85	--	92	98	100	--
12...	--	77	--	82	--	87	98	100	--
23...	--	99	--	100	--	--	--	--	--
28...	--	90	--	93	--	96	100	--	--
FEB									
06...	--	72	--	78	--	94	99	99	100
09...	--	78	--	89	--	96	99	100	--
MAR									
12...	--	86	--	92	--	96	100	--	--
APR									
13...	--	93	--	97	--	99	100	--	--
27...	--	98	--	99	--	100	--	--	--
MAY									
02...	--	98	--	100	--	--	--	--	--
18...	--	99	--	100	--	--	--	--	--
25...	--	98	--	100	--	--	--	--	--
27...	--	99	--	100	--	--	--	--	--
SEP									
10...	--	86	--	98	--	100	--	--	--
11...	--	80	--	84	--	92	98	100	--
25...	--	100	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--

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

DATE	TIME	NUMBER OF SAM-PLING POINTS	INSTAN-TANEOUS DIS-CHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
SEP 29...	1255	4	45	1	2	6	16

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
SEP 29...	45	77	92	98	99	100	100

11075620 SANTA ANA RIVER SPREADING DIVERSION BELOW IMPERIAL HIGHWAY NEAR ANAHEIM, CA

LOCATION.--Lat 33°57'23", long 117°48'00", in Canon De Santa Ana, Orange County, on diversion channel, 100 ft (30 m) downstream from diversion point, 0.1 mi (0.2 km) south of La Palma Avenue, and 0.6 mi (1.0 km) west of Imperial Highway.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1974 to current year. Records from July 1974 to September 1975 published in WDR CA-76-1.

GAGE.--Water-stage recorder and Parshall flume control. Altitude of gage is 262 ft (80 m), from topographic map.

REMARKS.--Records good. Water is diverted from Santa Ana River at diversion point 100 ft (30 m) upstream, for recharging to spreading basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 250 ft³/s (7.08 m³/s) Dec. 7, '8, 1975; no flow for some periods in each year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										---	141	121
2										---	139	68
3										172	139	64
4										169	139	66
5										165	140	96
6										158	139	109
7										153	138	112
8										194	139	119
9										201	141	122
10										189	139	122
11										187	137	126
12										198	134	129
13										192	136	144
14										174	137	124
15										104	137	126
16										145	140	125
17										137	142	49
18										137	128	0
19										138	88	0
20										142	140	0
21										141	141	0
22										142	125	0
23										142	141	0
24										141	143	0
25										142	141	0
26										142	137	0
27										142	136	0
28										138	131	0
29										138	131	0
30										141	130	0
31										142	129	---
TOTAL										---	4198	1822
MEAN										---	135	60.7
MAX										---	143	144
MIN										---	88	0
AC-FT										---	8330	3610

11075620 SANTA ANA RIVER SPREADING DIVERSION BELOW IMPERIAL HIGHWAY NEAR ANAHEIM, CA--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	71	125	.73	1.1	4.9	4.4	73	32	0	70	49
2	0	58	129	.47	1.1	4.9	4.3	69	38	0	71	49
3	0	56	87	.42	7.6	5.2	4.6	65	41	77	69	51
4	0	57	39	2.3	2.9	3.0	4.9	69	52	130	68	51
5	0	48	58	4.5	4.0	.62	6.2	69	54	128	71	51
6	0	12	85	4.5	9.0	.47	9.9	70	58	125	73	52
7	0	.86	96	4.2	12	.44	10	59	42	147	73	51
8	0	.68	54	4.4	15	.39	9.6	59	38	158	70	52
9	0	.60	55	2.7	20	.34	13	58	48	163	72	55
10	0	.60	72	1.6	19	.34	10	55	45	125	76	57
11	0	.60	50	2.3	17	.34	6.0	53	64	141	76	50
12	0	.60	2.4	3.4	8.6	.27	3.5	50	68	124	64	58
13	0	.54	3.6	3.2	8.3	.31	3.1	50	66	127	59	59
14	0	.47	3.6	3.7	9.6	.34	2.9	48	51	128	63	59
15	0	.46	3.6	3.6	15	.34	2.7	50	51	167	65	58
16	43	.46	2.0	3.5	16	.34	2.6	52	67	166	65	57
17	101	.46	1.1	3.0	9.5	.34	2.8	50	19	167	66	58
18	99	.46	1.1	2.9	8.3	.34	.93	45	.12	166	66	59
19	102	.61	1.1	2.8	7.2	.34	9.0	45	.07	167	66	65
20	104	.76	.95	2.8	6.9	.25	13	49	.03	166	67	64
21	105	.76	.94	2.0	7.0	2.3	13	48	0	164	66	65
22	124	.76	.94	1.8	6.9	8.7	3.4	41	0	158	68	64
23	124	.75	.87	1.8	6.5	10	68	39	0	19	70	64
24	124	.61	.80	1.8	6.3	10	94	38	0	48	69	64
25	123	.60	2.6	1.3	5.4	11	99	37	0	93	63	65
26	123	60	4.9	.84	5.0	13	92	39	0	94	48	64
27	124	130	2.5	1.0	4.8	15	82	42	0	94	47	62
28	134	132	1.4	1.1	5.0	15	82	47	0	94	35	47
29	165	129	1.4	1.0	---	15	82	44	0	95	29	44
30	148	124	1.2	.86	---	9.3	72	43	0	88	46	50
31	142	---	.99	.94	---	4.8	---	31	---	72	49	---
TOTAL	1885	888.64	887.99	71.46	245.0	137.91	810.83	1587	834.22	3591	1960	1694
MEAN	60.8	29.6	28.6	2.31	8.75	4.45	27.0	51.2	27.8	116	63.2	56.5
MAX	165	132	129	4.5	20	15	99	73	68	167	76	65
MIN	0	.46	.80	.42	1.1	.25	.93	31	0	0	29	44
AC-FT	3740	1760	1760	142	486	274	1610	3150	1650	7120	3890	3360
WTR YR 1975	TOTAL	14593.05	MEAN	40.0	MAX	167	MIN	0	AC-FT	28950		

11075620 SANTA ANA RIVER SPREADING DIVERSION BELOW IMPERIAL HIGHWAY NEAR ANAHEIM, CA--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	44	216	97	92	171	126	41	166	120	49	33
2	52	51	224	101	101	154	80	36	160	133	44	30
3	50	14	236	96	115	148	80	38	169	129	48	35
4	47	.16	213	89	107	214	106	42	180	131	48	36
5	52	.08	219	95	87	210	128	20	180	129	44	39
6	55	.04	242	112	87	174	91	1.4	182	88	31	43
7	38	.04	250	117	96	92	77	.55	183	88	35	41
8	30	.08	250	116	68	90	75	.28	184	110	34	52
9	26	.08	154	118	105	91	74	.16	185	104	32	47
10	30	.04	130	113	94	102	71	.12	200	102	37	104
11	36	0	123	109	91	169	67	.12	240	102	38	182
12	39	0	121	104	139	178	30	.08	244	102	32	223
13	40	0	170	112	188	177	63	.08	241	103	33	243
14	40	0	161	116	148	177	101	.08	239	103	34	248
15	39	0	152	121	144	174	73	.08	190	108	36	235
16	47	0	136	122	148	199	81	.08	168	66	35	122
17	46	0	143	126	148	196	62	27	157	55	31	99
18	68	36	131	127	159	199	60	44	153	49	24	95
19	85	137	105	124	183	199	58	49	152	54	31	90
20	88	142	99	113	196	200	56	47	152	54	37	91
21	85	140	98	112	193	192	58	48	151	55	43	88
22	89	140	97	107	182	185	52	44	149	53	40	89
23	90	142	92	56	141	175	54	46	147	56	35	89
24	88	142	94	99	88	162	52	56	142	52	34	85
25	88	142	95	109	88	159	51	59	135	45	34	110
26	87	166	94	105	173	153	42	64	112	49	34	92
27	90	191	92	105	192	146	45	108	111	52	35	87
28	116	204	92	105	197	144	47	161	112	53	36	82
29	108	213	90	97	209	165	41	158	117	50	35	80
30	97	208	91	94	---	165	42	160	119	47	33	81
31	74	---	95	94	---	154	---	163	---	49	33	---
TOTAL	1972	2112.52	4505	3311	3959	5114	2043	1414.03	5020	2491	1125	2971
MEAN	63.6	70.4	145	107	137	165	68.1	45.6	167	80.4	36.3	99.0
MAX	116	213	250	127	209	214	128	163	244	133	49	248
MIN	26	0	90	56	68	90	30	.08	111	45	24	30
AC-FT	3910	4190	8940	6570	7850	10140	4050	2800	9960	4940	2230	5890
CAL YR 1975	TOTAL	19520.94	MEAN	53.5	MAX	250	MIN	0	AC-FT	38720		
WTR YR 1976	TOTAL	36037.55	MEAN	98.5	MAX	250	MIN	0	AC-FT	71480		

11075620 SANTA ANA RIVER SPREADING DIVERSION BELOW IMPERIAL HIGHWAY NEAR ANAHEIM, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1975 to current year.
 CHEMICAL ANALYSES: November 1974 to current year.

PERIOD OF DAILY RECORD.--
 SPECIFIC CONDUCTANCE: July 1974 to current year.

INSTRUMENTATION.--Specific conductance recorder since July 1974.

REMARKS.--Periods of missing specific conductance data due to fouling of probe or no flow.

EXTREMES FOR PERIOD OF DAILY RECORD.--
 SPECIFIC CONDUCTANCE: Maximum, 1,380 micromhos May 10, 1975; minimum, 238 micromhos Dec. 4, 1974.

EXTREMES FOR CURRENT YEAR.--
 SPECIFIC CONDUCTANCE: Maximum, 1,350 micromhos Mar. 6; minimum, 505 micromhos Mar. 1.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)
OCT							
02...	1435	53	732	23.0	444	.60	63.5
14...	1330	45	1090	20.1	688	.94	83.6
NOV							
03...	1400	.30	1120	18.0	694	.94	.56
20...	1030	145	602	10.2	346	.47	135
DEC							
01...	1030	235	579	94.0	322	.44	204
17...	1150	135	599	9.3	340	.46	124
29...	0940	89	607	10.8	359	.49	86.3
JAN							
30...	1100	90	649	10.1	397	.54	96.9
FEB							
18...	1010	183	1080	14.1	648	.88	320
MAR							
02...	0915	178	624	12.7	383	.52	184
16...	1235	182	648	17.4	392	.53	193
APR							
02...	1300	93	1200	19.3	749	1.02	188
19...	1400	63	1170	20.1	735	1.00	125
MAY							
04...	0950	44	1240	18.3	789	1.07	93.7
18...	1000	43	1250	19.7	838	1.14	97.3
JUN							
01...	1015	170	592	19.3	364	.50	167
JUL							
30...	1500	52	1080	27.2	702	.95	98.6
AUG							
16...	1130	37	1090	22.3	707	.96	70.6
SEP							
02...	0950	30	1160	21.9	758	1.03	62.2
15...	1145	238	1110	20.8	703	.96	452

11075620 SANTA ANA RIVER SPREADING DIVERSION BELOW IMPERIAL HIGHWAY, NEAR ANAHEIM, CA--Continued

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	782	726	755	1200	1070	1150	598	562	582	647	615	628
2	760	724	744	1170	1120	1130	583	545	575	---	---	---
3	749	715	734	1120	1110	1110	573	531	558	---	---	---
4	749	705	731	---	---	---	640	552	609	---	---	---
5	747	695	721	---	---	---	634	550	583	---	---	---
6	743	689	717	---	---	---	573	537	561	---	---	---
7	1060	729	890	---	---	---	573	541	560	---	---	---
8	1100	1060	1080	---	---	---	570	542	560	---	---	---
9	1110	1070	1090	---	---	---	744	590	713	---	---	---
10	1100	1080	1090	---	---	---	735	669	697	---	---	---
11	1110	1080	1090	---	---	---	741	653	692	---	---	---
12	1120	1100	1110	---	---	---	794	744	771	---	---	---
13	1120	1100	1110	---	---	---	820	622	754	---	---	---
14	1120	1090	1110	---	---	---	823	783	806	---	---	---
15	1130	1100	1110	---	---	---	821	787	810	---	---	---
16	1120	1080	1110	---	---	---	816	692	796	---	---	---
17	1110	1090	1100	---	---	---	650	584	607	---	---	---
18	1110	870	991	726	704	720	620	576	603	---	---	---
19	868	844	859	694	616	644	604	574	592	---	---	---
20	856	824	840	614	578	606	612	572	591	---	---	---
21	854	818	837	619	579	607	632	580	606	---	---	---
22	872	836	855	622	608	615	618	578	604	---	---	---
23	864	848	858	619	575	608	654	594	636	---	---	---
24	852	822	838	612	598	605	---	---	---	---	---	---
25	842	806	825	641	605	622	---	---	---	---	---	---
26	846	804	826	649	593	623	---	---	---	---	---	---
27	840	804	826	596	550	580	---	---	---	---	---	---
28	830	742	763	625	569	593	---	---	---	---	---	---
29	738	712	728	630	582	616	649	607	635	---	---	---
30	748	700	723	605	571	593	647	609	627	719	649	687
31	1060	734	864	---	---	---	657	607	639	693	671	682
MONTH	1130	689	901	---	---	---	823	531	645	---	---	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	726	688	707	977	505	702	1140	638	835	1270	1200	1220
2	712	608	668	867	528	673	1240	1150	1190	1280	1230	1250
3	668	598	630	840	552	742	1270	946	1230	1270	1230	1260
4	733	565	629	806	696	746	1200	774	1060	1280	1220	1240
5	965	709	858	1050	756	899	1120	960	1040	1290	746	1110
6	1030	554	802	1350	1070	1190	1240	1090	1150	---	---	---
7	1150	840	1010	1260	1180	1210	1270	1230	1250	---	---	---
8	1060	792	909	1210	1170	1190	1280	1170	1250	---	---	---
9	989	575	767	1200	1070	1170	1260	1220	1240	---	---	---
10	815	711	762	1190	784	1140	1260	1210	1240	---	---	---
11	727	623	677	684	598	632	1260	1220	1230	---	---	---
12	702	594	652	770	600	657	1240	1210	1220	---	---	---
13	874	634	724	676	598	650	1140	700	834	---	---	---
14	863	793	820	652	596	631	1150	822	1010	---	---	---
15	971	877	912	724	596	638	1210	1120	1180	---	---	---
16	1060	937	972	722	604	656	1180	926	1070	---	---	---
17	1090	1010	1050	666	620	645	1200	1150	1160	1280	1200	1240
18	1130	1060	1100	662	610	636	1210	1170	1190	1300	1190	1240
19	1130	1070	1100	652	590	627	1200	1170	1180	1270	1190	1230
20	1130	1080	1110	722	620	674	1220	1160	1190	1290	1210	1240
21	1180	1110	1140	714	684	703	1250	1180	1200	1270	1180	1230
22	1240	1160	1190	762	690	718	1200	1160	1180	1270	1150	1210
23	1340	1260	1300	752	710	736	1210	1170	1190	1210	1150	1180
24	1250	1200	1220	744	704	730	1220	1180	1200	1200	1160	1180
25	1220	1170	1200	746	722	734	1210	1170	1190	1230	1160	1190
26	903	611	663	744	706	731	1200	1160	1180	1210	1170	1190
27	669	585	637	742	702	726	1200	1170	1180	1260	706	958
28	688	596	644	746	710	730	1190	1170	1180	701	665	684
29	670	652	661	736	702	723	1210	1170	1190	765	651	677
30	---	---	---	716	676	703	1210	1190	1200	690	642	654
31	---	---	---	766	668	701	---	---	---	650	610	643
MONTH	1340	554	880	1350	505	776	1280	638	1150	---	---	---

SANTA ANA RIVER BASIN

433

11075720 CARBON CREEK BELOW CARBON CANYON DAM, CA

LOCATION.--Lat 33°54'40", long 117°50'29", in SW¼NE¼ sec.17, T.3 S., R.9 W., Orange County, on right wall of outlet channel 250 ft (76 m) downstream from toe of Carbon Canyon Dam, and 2.4 mi (3.9 km) northwest of Yorba Linda.

DRAINAGE AREA.--19.5 mi² (50.5 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 396.29 ft (120.789 m) above mean sea level (Corps of Engineers bench mark). Prior to Dec. 3, 1971, at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records fair. Flow regulated by Carbon Canyon flood-control reservoir, capacity, 6,610 acre-ft (8.15 hm³). No diversion above station. See schematic diagram of Santa Ana River basin.

AVERAGE DISCHARGE.--15 years, 0.46 ft³/s (0.013 m³/s), 333 acre-ft/yr (411,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 446 ft³/s (12.6 m³/s) Feb. 25, 1969, gage height, 4.64 ft (1.414 m), present datum, from rating curve extended above 110 ft³/s (3.12 m³/s) on basis of computation of flow in concrete-lined channel at gage height 6.18 ft (1.884 m); no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 23 ft³/s (0.65 m³/s) Mar. 17, gage height, 2.53 ft (0.771 m); no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						0		0	0	.01		0
2						0		0	0	.03		0
3						0		0	0	0		0
4						0		0	0	0		0
5						0		0	0	0		0
6						0		0	0	0		0
7						0		0	.07	0		0
8						0		0	0	0		0
9						0		0	0	0		0
10						0		.04	0	0		1.6
11						0		0	.02	0		4.9
12						0		0	0	0		0
13						0		0	0	.31		0
14						0		0	0	0		0
15						0		0	0	.50		0
16						0		0	0	0		0
17						1.4		0	0	0		0
18						0		0	0	0		0
19						0		0	0	0		0
20						0		0	0	7.7		0
21						0		0	0	1.1		0
22						0		0	0	.75		0
23						0		0	0	.14		0
24						0		0	0	0		0
25						0		0	0	0		0
26						0		0	0	0		0
27						0		0	0	0		0
28						0		.11	0	0		0
29						0		0	0	0		0
30						0		0	0	0		0
31		---			---	0	---	0	---	0		---
TOTAL	0	0	0	0	0	1.4	0	.15	.09	10.54	0	6.5
MEAN	0	0	0	0	0	.045	0	.005	.003	.34	0	.22
MAX	0	0	0	0	0	1.4	0	.11	.07	7.7	0	4.9
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	2.8	0	.3	.2	21	0	13
CAL YR 1975	TOTAL	15.52	MEAN	.043	MAX	9.5	MIN	0	AC-FT	31		
WTR YR 1976	TOTAL	18.68	MEAN	.051	MAX	7.7	MIN	0	AC-FT	37		

SANTA ANA RIVER BASIN

11075760 SANTA ANA RIVER NEAR KATELLA AVENUE, AT ORANGE, CA

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

DRAINAGE AREA.--1,593 mi² (4,126 km²), excludes 768 mi² (1,990 km²) above Lake Elsinore.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1973 to September 1976 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 145 ft (44 m), from topographic map.

REMARKS.--Records poor. Natural flow affected by ground-water withdrawals, diversions, imporation by Metropolitan Water District, municipal use, and return flow from irrigation. Prado flood-control reservoir, capacity, 201,200 acre-ft (248 hm³) since 1940, three small flood-control reservoirs, combined capacity, 31,900 acre-ft (39.3 hm³), and Big Bear Lake (station 11049000). Discharge up to 100 ft³/s (2.83 m³/s) can be diverted from Carbon Creek to Coyote Creek, 1.5 mi (2.4 km) upstream from mouth of Carbon Creek. See schematic diagram of Santa Ana River basin. Daily discharges for Sept. 10 and 11 storm were estimated on the basis of comparison with the downstream stations Santa Ana River at Santa Ana (station 11078000) and Santiago Creek at Santa Ana (station 11077500).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,400 ft³/s (153 m³/s) Dec. 4, 1976, gage height, 6.53 ft (1.990 m), from rating curve extended above 2,900 ft³/s (82.1 m³/s) for gage height 6.53 ft (1.990 m), based on indirect computation; no flow for long periods in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, unknown, Sept. 10, gage height, unknown; no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0			0	29	0		0			0
2		0			0	12	0		0			0
3		0			0	16	0		0			0
4		0			0	0	5.5		0			0
5		0			0	0	0		0			0
6		0			24	0	0		0			0
7		0			56	0	0		0			0
8		0			185	0	0		0			0
9		0			218	1.2	0		0			0
10		0			55	.46	0		8.6			250
11		0			35	0	0		0			100
12		0			34	0	7.4		0			0
13		0			18	0	11		0			0
14		0			0	0	0		0			0
15		0			0	0	0		0			0
16		0			0	0	0		0			0
17		0			0	0	0		0			0
18		0			0	0	0		0			0
19		0			0	0	0		0			0
20		0			0	0	0		0			0
21		0			0	0	0		0			0
22		0			0	0	0		0			0
23		0			0	0	0		0			0
24		0			0	0	0		0			0
25		0			0	0	0		0			0
26		.02			0	0	0		0			0
27		0			0	0	0		0			0
28		0			0	0	0		0			0
29		0			0	0	0		0			0
30		0			---	0	0		0			0
31		---			---	0	---		---			---
TOTAL	0	.02	0	0	625	58.66	23.9	0	8.6	0	0	350
MEAN	0	.0007	0	0	21.6	1.89	.80	0	.29	0	0	11.7
MAX	0	.02	0	0	218	29	11	0	8.6	0	0	250
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	.04	0	0	1240	116	47	0	17	0	0	694
CAL YR 1975	TOTAL	1007.02	MEAN	2.76	MAX	161	MIN	0	AC-FT	2000		
WTR YR 1976	TOTAL	1066.18	MEAN	2.91	MAX	250	MIN	0	AC-FT	2110		

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

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: January 1974 to September 1976 (discontinued).
 SEDIMENT RECORDS: January 1974 to September 1976 (discontinued).

REMARKS.--Particle-size distribution of bed material table was omitted in the 1975 water year and is published with the 1976 water year records.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 8,840 mg/l Jan. 8, 1974; minimum daily mean, no flow for many days each year.
 SEDIMENT DISCHARGE: Maximum daily, 30,900 tons (28,000 tonnes) Jan. 8, 1974; minimum daily, 0 tons on many days each year.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 4,590 mg/l Sept. 10; minimum daily mean, no flow for many days.
 SEDIMENT DISCHARGE: Maximum daily, 3,100 tons (2,790 tonnes) Sept. 10; minimum daily, 0 tons on many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					---	---						---
2					---	---						---
3					---	11.0						---
4					---	---						---
5					---	---						---
6					13.0	---						---
7					13.0	---						---
8					14.0	---						---
9					12.5	---						---
10					12.0	---						25.0
11					19.5	---						---
12					18.5	---						---
13					16.0	---						---
14					---	---						---
15					---	---						---
16					---	---						---
17					---	---						---
18					---	---						---
19					---	---						---
20					---	---						---
21					---	---						---
22					---	---						---
23					---	---						---
24					---	---						---
25					---	---						---
26					---	---						---
27					---	---						---
28					---	---						---
29					---	---						---
30					---	---						---
31					---	---						---
MONTH					---	---						---

SANTA ANA RIVER BASIN

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

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

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					
2				0					
3				0					
4				0					
5				0					
6				0					
7				0					
8				0					
9				0					
10				0					
11				0					
12				0					
13				0					
14				0					
15				0					
16				0					
17				0					
18				0					
19				0					
20				0					
21				0					
22				0					
23				0					
24				0					
25				0					
26				.02					
27				0					
28				0					
29				0					
30				0					
31				---					
TOTAL	0	0	0	.02	0	0	0	0	0
DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1				0	0	0	29	178	67
2				0	0	0	12	84	30
3				0	0	0	16	91	11
4				0	0	0	0	0	0
5				0	0	0	0	0	0
6				24	262	65	0	0	0
7				56	371	85	0	0	0
8				185	1120	2650	0	0	0
9				218	2110	1760	1.2	16	.91
10				55	515	78	.46	7	.20
11				35	385	30	0	0	0
12				34	260	24	0	0	0
13				18	160	8.0	0	0	0
14				0	0	0	0	0	0
15				0	0	0	0	0	0
16				0	0	0	0	0	0
17				0	0	0	0	0	0
18				0	0	0	0	0	0
19				0	0	0	0	0	0
20				0	0	0	0	0	0
21				0	0	0	0	0	0
22				0	0	0	0	0	0
23				0	0	0	0	0	0
24				0	0	0	0	0	0
25				0	0	0	0	0	0
26				0	0	0	0	0	0
27				0	0	0	0	0	0
28				0	0	0	0	0	0
29				0	0	0	0	0	0
30				---	---	---	0	0	0
31				---	---	---	0	0	0
TOTAL	0	0	0	625.00	---	4700.00	58.66	---	109.11

SANTA ANA RIVER BASIN

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

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

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	0	0	0				0	0	0
2	0	0	0				0	0	0
3	0	0	0				0	0	0
4	5.5	50	9.1				0	0	0
5	0	0	0				0	0	0
6	0	0	0				0	0	0
7	0	0	0				0	0	0
8	0	0	0				0	0	0
9	0	0	0				0	0	0
10	0	0	0				8.6	83	13
11	0	0	0				0	0	0
12	7.4	71	23				0	0	0
13	11	138	29				0	0	0
14	0	0	0				0	0	0
15	0	0	0				0	0	0
16	0	0	0				0	0	0
17	0	0	0				0	0	0
18	0	0	0				0	0	0
19	0	0	0				0	0	0
20	0	0	0				0	0	0
21	0	0	0				0	0	0
22	0	0	0				0	0	0
23	0	0	0				0	0	0
24	0	0	0				0	0	0
25	0	0	0				0	0	0
26	0	0	0				0	0	0
27	0	0	0				0	0	0
28	0	0	0				0	0	0
29	0	0	0				0	0	0
30	0	0	0				0	0	0
31	---	---	---				---	---	---
TOTAL	23.90	---	61.10	0	0	0	8.60	---	13.00

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							0	0	0
2							0	0	0
3							0	0	0
4							0	0	0
5							0	0	0
6							0	0	0
7							0	0	0
8							0	0	0
9							0	0	0
10							250	4590	3100
11							100	1800	620
12							0	0	0
13							0	0	0
14							0	0	0
15							0	0	0
16							0	0	0
17							0	0	0
18							0	0	0
19							0	0	0
20							0	0	0
21							0	0	0
22							0	0	0
23							0	0	0
24							0	0	0
25							0	0	0
26							0	0	0
27							0	0	0
28							0	0	0
29							0	0	0
30							0	0	0
31							---	---	---
TOTAL	0	0	0	0	0	0	350.00	---	3720.00
YEAR	1066.18		8603.21						

SANTA ANA RIVER BASIN

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

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

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1975	0.0	0.0	0	0
NOVEMBER ...	0.02	0.0	0	0
DECEMBER ...	0.0	0.0	0	0
JANUARY 1976	0.0	0.0	0	0
FEBRUARY ...	625.00	4700.00	463	5160
MARCH	58.66	109.11	11	120
APRIL	23.90	61.10	3	64
MAY	0.0	0.0	0	0
JUNE	8.60	13.00	1	14
JULY	0.0	0.0	0	0
AUGUST	0.0	0.0	0	0
SEPTEMBER ..	350.00	3720.00	345	4060
TOTAL	1066.18	8603.21	823	9418

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

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
FEB								
09...	0930	12.5	351	7030	6660	5	7	8
11...	1300	19.5	9.9	197	5.3	--	--	--
13...	1450	16.0	16	156	6.7	--	--	--
HAR								
01...	1600	--	36	152	15	--	--	--
03...	1050	13.0	68	382	70	47	56	63

SANTA ANA RIVER BASIN

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

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

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
FEB 09...	9	10	12	14	23	56	93	100
11...	--	--	97	98	99	100	--	--
13...	--	--	98	98	100	--	--	--
MAR 01...	--	--	93	96	98	100	--	--
03...	70	79	86	93	98	100	--	--

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

DATE	TIME	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM
SEP 29...	1230	3	.00	1	7	16	51	88	97	99	100

SANTA ANA RIVER BASIN

11075800 SANTIAGO CREEK AT MODJESKA, CA

LOCATION.--Lat 33°42'32", long 117°38'05", in SE¼SE¼NW¼ sec.29, T.5 S., R.7 W., Orange County, on right bank at Santiago Canyon road bridge, 0.3 mi (0.5 km) west of Modjeska, and 0.4 mi (0.6 km) downstream from Harding Creek.

DRAINAGE AREA.--12.5 mi² (32.4 km²).

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,254.35 ft (382.326 m) above mean sea level. Prior to Sept. 10, 1969, at datum 4.42 ft (1.347 m) higher.

REMARKS.--Records poor. Slight regulation by Modjeska Reservoir on Harding Creek. No diversion above station. See schematic diagram of Santa Ana River basin.

AVERAGE DISCHARGE.--15 years, 6.30 ft³/s (0.178 m³/s), 4,560 acre-ft/yr (5.62 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,520 ft³/s (185 m³/s) Feb. 25, 1969, gage height, 10.50 ft (3.200 m), present datum, from rating curve extended above 840 ft³/s (23.8 m³/s) on basis of slope-area measurement of maximum flow; no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 440 ft³/s (12.5 m³/s) Mar. 1 (1715 hrs), gage height, 4.80 ft (1.463 m), no other peak above base of 100 ft³/s (12.5 m³/s); no flow many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	0	.01	.13	.24	97	1.5	1.0	.44	.11	.05	
2	.01	.01	.01	.15	.24	76	1.5	.81	.44	.11	.05	
3	.01	.01	.01	.16	.24	50	1.5	.81	.44	.11	.04	
4	.01	0	.01	.16	.24	39	1.5	.81	.44	.10	.04	
5	.01	0	.01	.16	.24	26	1.5	.81	.44	.09	.04	
6	.01	0	.01	.16	1.5	20	1.5	.81	.44	.08	.03	
7	.01	0	0	.16	1.8	16	1.3	1.0	.44	.08	.03	
8	0	0	0	.16	3.8	11	1.3	1.2	.44	.08	.03	
9	0	0	0	.16	24	7.0	1.3	.90	.44	.08	.03	
10	.02	.01	0	.16	24	5.6	1.3	.81	.57	.08	.03	
11	.02	0	0	.20	8.1	5.6	1.3	.72	.44	.08	.02	
12	.02	0	0	.20	3.4	4.8	1.3	.57	.44	.08	.02	
13	.02	0	0	.20	2.8	3.5	1.2	.57	.44	.08	.02	
14	.02	0	0	.20	2.8	3.4	1.2	.57	.44	.08	.02	
15	.01	0	0	.20	2.3	3.4	1.0	.57	.44	.07	.02	
16	.01	0	0	.20	2.0	3.4	1.0	.57	.44	.07	.02	
17	.02	0	0	.24	1.8	3.4	1.0	.57	.44	.08	.02	
18	.03	0	0	.24	1.7	3.4	1.0	.57	.38	.08	.02	
19	.04	0	0	.24	1.6	3.1	.81	.57	.38	.08	.01	
20	.04	0	0	.24	1.5	2.8	.72	.55	.33	.07	.01	
21	.04	0	0	.24	1.4	2.5	.72	.50	.28	.07	.01	
22	.03	0	0	.24	1.3	2.0	.72	.50	.24	.07	.01	
23	.03	0	0	.28	1.2	2.0	.72	.50	.20	.07	.01	
24	.03	0	0	.28	1.2	2.0	1.1	.44	.20	.07	.01	
25	.03	0	0	.28	1.6	2.0	1.0	.44	.18	.07	0	
26	.03	0	0	.24	1.6	2.0	1.0	.44	.16	.06	0	
27	.04	0	0	.20	1.6	2.0	1.0	.44	.15	.06	0	
28	.03	.01	0	.20	1.5	2.0	1.0	.44	.13	.06	0	
29	.01	.01	0	.20	1.0	2.0	1.0	.44	.12	.06	0	
30	.01	.01	.08	.20	---	2.0	1.2	.44	.11	.05	0	
31	.01	---	.11	.20	---	1.7	---	.44	---	.05	0	---
TOTAL	.61	.06	.25	6.28	96.70	405.8	34.19	19.81	10.47	2.38	.59	0
MEAN	.020	.002	.008	.20	3.33	13.1	1.14	.64	.35	.077	.019	0
MAX	.04	.01	.11	.28	24	97	1.5	1.2	.57	.11	.05	0
MIN	0	0	0	.13	.24	1.7	.72	.44	.11	.05	0	0
AC-FT	1.2	.1	.5	12	192	805	68	39	21	4.7	1.2	0

CAL YR 1975 TOTAL 838.78 MEAN 2.30 MAX 59 MIN 0 AC-FT 1660
WTR YR 1976 TOTAL 577.14 MEAN 1.58 MAX 97 MIN 0 AC-FT 1140

SANTA ANA RIVER BASIN

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11077500 SANTIAGO CREEK AT SANTA ANA, CA

LOCATION (REVISED).--Lat 33°46'13", long 117°53'01", in NW¼SW¼NW¼ sec.1, T.5 S., R.10 W., Orange County, on left bank 127 ft (39 m) upstream from Bristol Street bridge at Santa Ana, and 1,700 ft (518 m) upstream from mouth at Santa Ana River.

WATER-DISCHARGE RECORDS

DRAINAGE AREA.--98.6 mi² (255 km²).

PERIOD OF RECORD.--October 1928 to current year. Monthly discharge only October to December 1928, published in WSP 1315-B.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 105.00 ft (32.004 m) above mean sea level (Orange County Flood Control District bench mark). Prior to Sept. 8, 1969, at site 0.1 mi (0.2 km) upstream at different datum. Prior to July 21, 1976, at site 127 ft (38.7 m) downstream at datum 2.66 ft (0.811 ft) lower.

REMARKS.--Records poor. Flow regulated by Santiago Reservoir, capacity, 25,000 acre-ft (30.8 hm³), since January 1963 by Villa Park flood-control reservoir, capacity, 15,500 acre-ft (19.1 hm³), and affected by intervening gravel pits. Diversions above station by Irvine Co. and Serrano and Carpenter Irrigation Districts. See schematic diagram of Santa Ana River basin.

AVERAGE DISCHARGE.--48 years, 4.93 ft³/s (0.140 m³/s), 3,570 acre-ft/yr (4.40 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,600 ft³/s (187 m³/s) Feb. 25, 1969, gage height, 9.10 ft (2.774 m), site and datum then in use; maximum gage height, 9.85 ft (3.002 m) Jan. 16, 1952; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 326 ft³/s (9.23 m³/s) Feb. 9, gage height, 5.38 ft (1.640 m); no flow for several months.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	.01	0	22	0	0	0	0	0	0
2	0	0	0	.01	0	12	.09	0	0	0	0	0
3	0	0	0	0	.21	6.7	.36	0	0	0	0	0
4	.01	0	.01	0	.20	.06	1.7	0	0	0	0	0
5	.01	0	.02	.01	.41	0	.18	0	0	0	0	1.2
6	.13	0	0	0	16	0	.01	0	0	0	0	0
7	.07	0	.01	0	10	0	0	0	0	0	0	.04
8	.01	0	.02	0	16	.16	.05	0	0	0	0	0
9	0	.04	.18	0	57	.09	.01	0	0	0	0	0
10	0	0	0	0	.38	.08	.04	0	2.0	0	0	43
11	.08	0	0	0	.04	0	.02	0	0	0	0	3.4
12	0	0	.07	0	0	0	5.9	0	0	0	0	.04
13	0	.01	0	0	0	.01	3.4	0	0	0	0	.04
14	0	0	0	0	0	0	.10	0	0	0	0	0
15	0	.01	0	.01	0	.03	.75	0	0	0	0	.04
16	0	.01	0	.01	.04	.14	.25	0	0	0	0	.04
17	0	0	0	.01	0	0	0	0	0	0	0	0
18	0	0	.01	.07	.02	0	0	0	0	0	0	0
19	0	.01	.02	0	0	.01	0	0	0	0	0	0
20	0	0	.01	0	0	.04	0	0	0	0	0	0
21	0	0	.02	0	.01	.06	0	0	0	0	0	.04
22	0	.02	.01	.01	.03	.08	0	0	0	0	0	0
23	0	.02	0	0	.01	.08	0	0	0	0	0	0
24	.01	.03	0	0	.01	.07	0	0	0	0	0	0
25	0	.02	0	0	.02	.14	0	0	0	0	0	0
26	0	.02	0	.02	0	.11	0	0	0	0	0	0
27	0	.01	0	0	.18	.77	0	0	0	0	0	0
28	0	.66	0	0	.03	.36	0	0	0	0	0	0
29	0	.07	.01	0	0	.15	0	0	0	0	0	0
30	.10	.01	.02	0	---	.09	0	0	0	0	.01	0
31	0	---	.01	0	---	.09	---	---	---	0	0	---
TOTAL	.42	.94	.42	.16	100.59	43.32	12.86	0	2.0	0	.01	47.84
MEAN	.014	.031	.014	.005	3.47	1.40	.43	0	.067	0	.0003	1.59
MAX	.13	.66	.18	.07	57	22	5.9	0	2.0	0	.01	43
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	.8	1.9	.8	.3	200	86	26	0	4.0	0	.02	95
CAL YR 1975	TOTAL 262.59	MEAN .72	MAX 61	MIN 0	AC-FT 521							
WTR YR 1976	TOTAL 208.56	MEAN .57	MAX 57	MIN 0	AC-FT 414							

SANTA ANA RIVER BASIN

11077500 SANTIAGO CREEK AT SANTA ANA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SEDIMENT RECORDS: Water year 1974 to current year (partial-record station).

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

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
NOV 28...	0945	11.0	.88	176	.42	99	100	--	--
FEB 08...	1455	15.0	51	175	24	98	99	100	--
08...	1540	--	69	388	72	96	98	100	--
SEP 10...	1420	24.5	36	68	6.6	97	97	97	100

11078000 SANTA ANA RIVER AT SANTA ANA, CA

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

DRAINAGE AREA.--1,700 mi² (4,403 km²), excludes 768 mi² (1,989 km²) above Lake Elsinore.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1923 to current year.

REVISED RECORDS.--WDR CA-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 71.20 ft (21.702 m) above mean sea level (Orange County bench mark). Jan. 3, 1923, to Jan. 24, 1929, at same site at different datum. Jan. 25, 1929, to June 20, 1948, at site 450 ft (137 m) upstream at different datum. June 21, 1948, to May 2, 1960, at same site at different datum. Feb. 28, 1961, to Oct. 1, 1961, at same site at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records fair. Natural flow affected by ground-water withdrawals, diversions, importation by Metropolitan Water District, municipal use, return flow from irrigation, Prado flood-control reservoir, capacity, 201,200 acre-ft (248 hm³) since 1940, three small flood-control reservoirs, combined capacity, 31,900 acre-ft (39.3 hm³), Big Bear Lake (station 11049000), and Santiago Reservoir, capacity, 25,000 acre-ft (30.8 hm³). Discharge up to 100 ft³/s (2.83 m³/s) can be diverted from Carbon Creek to Coyote Creek 1.5 mi (2.4 km) upstream from mouth of Carbon Creek. See schematic diagram of Santa Ana River basin.

COOPERATION.--Three discharge measurements were furnished by Orange County Environmental Management Agency.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (excludes flow which bypassed gage from break in levee below Imperial Highway), 46,300 ft³/s (1,310 m³/s) Mar. 3, 1938, gage height, 10.20 ft (3.109 m), site and datum then in use, on basis of slope-area measurement of maximum flow; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,670 ft³/s (47.3 m³/s) Sept. 10, gage height, 3.87 ft (1.180 m); no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	103	0	.10	.10	.10	.10	0
2					0	33	0	.10	.10	.10	.05	0
3					0	59	0	.10	.10	.10	0	0
4					0	11	8.1	.10	.10	.10	0	0
5					.98	1.1	1.8	.10	.10	.10	0	0
6					56	.06	0	.10	.10	.10	0	0
7					63	0	0	.10	.10	.10	0	0
8					129	0	0	.10	.10	.10	0	0
9					245	0	0	.10	.10	.10	0	0
10					70	2.5	0	.10	.10	.10	0	359
11					22	0	0	.10	.10	.10	0	138
12					22	0	16	.10	.10	.10	0	0
13					17	0	77	.10	.10	.10	0	0
14					3.7	0	0	.10	.10	.10	0	0
15					0	0	0	.10	.10	.10	0	0
16					0	0	0	.10	.10	.10	0	0
17					0	0	0	.10	.10	.10	0	0
18					0	0	0	.10	.10	.10	0	0
19					0	0	0	.10	.10	.10	0	0
20					0	0	.10	.10	.10	.10	0	0
21					0	0	.10	.10	.10	.10	0	0
22					0	0	.10	.10	.10	.10	0	0
23					0	0	.10	.10	.10	.10	0	0
24					0	0	.10	.10	.10	.10	0	0
25					0	0	.10	.10	.10	.10	0	0
26					0	0	.10	.10	.10	.10	0	0
27					0	0	.10	.10	.10	.10	0	0
28					0	0	.10	.10	.10	.10	0	0
29					0	0	.10	.10	.10	.10	0	0
30					---	0	.10	.10	.10	.10	0	0
31		---			---	0	---	.10	---	.10	0	---
TOTAL	0	0	0	0	628.68	209.66	104.00	3.10	3.00	3.10	.15	497
MEAN	0	0	0	0	21.7	6.76	3.47	.10	.10	.10	.005	16.6
MAX	0	0	0	0	245	103	77	.10	.10	.10	.10	359
MIN	0	0	0	0	0	0	0	.10	.10	.10	0	0
AC-FT	0	0	0	0	1250	416	206	6.1	6.0	6.1	.3	986
CAL YR 1975	TOTAL	1609.89	MEAN 4.41	MAX 254	MIN 0	AC-FT 3190						
WTR YR 1976	TOTAL	1448.69	MEAN 3.96	MAX 359	MIN 0	AC-FT 2870						

SANTA ANA RIVER BASIN

11078000 SANTA ANA RIVER AT SANTA ANA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1967 to September 1969, October 1970 to September 1971, October 1972 to current year.

SEDIMENT RECORDS: October 1967 to September 1971, October 1972 to current year.

REMARKS.--Particle-size distribution of bed material table was omitted in the 1975 water year and is published with 1976 water year records.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 78,000 mg/l Feb. 25, 1969; minimum daily mean, no flow for many days each year.

SEDIMENT DISCHARGE: Maximum daily, 2,670,000 tons (2,420,000 tonnes) Feb. 25, 1969; minimum daily, 0 tons on many days each year.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,640 mg/l Sept. 10; minimum daily mean, no flow for many days.

SEDIMENT DISCHARGE: Maximum daily, 4,170 tons (3,780 tonnes) Sept. 10; minimum daily, 0 tons on many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					---	16.0		---		---		---
2					---	17.0		---		---		---
3					---	11.5		20.5		---		---
4					---	16.5		---		---		---
5					15.0	---		---		---		---
6					12.0	---		---		---		---
7					12.0	---		---		29.0		---
8					14.5	---		---		---		---
9					14.0	---		---		---		---
10					15.5	---		---		---		24.5
11					21.0	---		---		---		21.5
12					20.0	---		---		---		---
13					15.5	---		---		---		---
14					---	---		---		---		---
15					---	---		---		---		---
16					---	---		---		---		---
17					---	---		---		---		---
18					---	---		---		---		---
19					---	---		---		---		---
20					---	---		---		---		---
21					---	---		---		---		---
22					---	---		---		---		---
23					---	---		---		---		---
24					---	---		---		---		---
25					---	---		---		---		---
26					---	---		---		---		---
27					---	---		---		---		---
28					---	---		---		---		---
29					---	---		---		---		---
30					---	---		---		---		---
31					---	---		---		---		---
MONTH					---	---		---		---		---

11078000 SANTA ANA RIVER AT SANTA ANA, CA--Continued

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

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				0	0	0	103	293	247
2				0	0	0	33	203	103
3				0	0	0	59	296	96
4				0	0	0	11	35	1.0
5				.98	46	.24	1.1	20	.06
6				56	314	144	.06	5	0
7				63	288	68	0	0	0
8				129	534	283	0	0	0
9				245	923	817	0	0	0
10				70	300	57	2.5	46	.65
11				22	225	13	0	0	0
12				22	215	13	0	0	0
13				17	200	9.2	0	0	0
14				3.7	110	1.1	0	0	0
15				0	0	0	0	0	0
16				0	0	0	0	0	0
17				0	0	0	0	0	0
18				0	0	0	0	0	0
19				0	0	0	0	0	0
20				0	0	0	0	0	0
21				0	0	0	0	0	0
22				0	0	0	0	0	0
23				0	0	0	0	0	0
24				0	0	0	0	0	0
25				0	0	0	0	0	0
26				0	0	0	0	0	0
27				0	0	0	0	0	0
28				0	0	0	0	0	0
29				0	0	0	0	0	0
30				---	---	---	0	0	0
31				---	---	---	0	0	0
TOTAL	0	0	0	628.68	---	1405.54	209.66	---	447.71
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	0	0	0	.10	10	.10	10	10	0
2	0	0	0	.10	10	.10	10	10	0
3	0	0	0	.10	10	.10	10	10	0
4	8.1	85	3.2	.10	10	.10	10	10	0
5	1.8	25	.22	.10	10	.10	10	10	0
6	0	0	0	.10	10	.10	10	10	0
7	0	0	0	.10	10	.10	10	10	0
8	0	0	0	.10	10	.10	10	10	0
9	0	0	0	.10	10	.10	10	10	0
10	0	0	0	.10	10	.10	135	135	.04
11	0	0	0	.10	10	.10	10	10	0
12	16	55	.81	.10	10	.10	10	10	0
13	77	256	255	.10	10	.10	10	10	0
14	0	0	0	.10	10	.10	10	10	0
15	0	0	0	.10	10	.10	10	10	0
16	0	0	0	.10	10	.10	10	10	0
17	0	0	0	.10	10	.10	10	10	0
18	0	0	0	.10	10	.10	10	10	0
19	0	0	0	.10	10	.10	10	10	0
20	.10	10	0	.10	10	.10	10	10	0
21	.10	10	0	.10	10	.10	10	10	0
22	.10	10	0	.10	10	.10	10	10	0
23	.10	10	0	.10	10	.10	10	10	0
24	.10	10	0	.10	10	.10	10	10	0
25	.10	10	0	.10	10	.10	10	10	0
26	.10	10	0	.10	10	.10	10	10	0
27	.10	10	0	.10	10	.10	10	10	0
28	.10	10	0	.10	10	.10	10	10	0
29	.10	10	0	.10	10	.10	10	10	0
30	.10	10	0	.10	10	.10	10	10	0
31	---	---	---	.10	10	---	---	---	---
TOTAL	104.00	---	339.42	3.10	---	0	3.00	---	.04

SANTA ANA RIVER BASIN

11078000 SANTA ANA RIVER AT SANTA ANA, CA--Continued

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

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	.10	10		.10	10		0	0	0
2	.10	10		.05	5		0	0	0
3	.10	10		0	0		0	0	0
4	.10	10		0	0		0	0	0
5	.10	10		0	0		0	0	0
6	.10	10		0	0		0	0	0
7	.10	10		0	0		0	0	0
8	.10	10		0	0		0	0	0
9	.10	10		0	0		0	0	0
10	.10	10		0	0		359	1640	4170
11	.10	10		0	0		138	413	572
12	.10	10		0	0		0	0	0
13	.10	10		0	0		0	0	0
14	.10	10		0	0		0	0	0
15	.10	10		0	0		0	0	0
16	.10	10		0	0		0	0	0
17	.10	10		0	0		0	0	0
18	.10	10		0	0		0	0	0
19	.10	10		0	0		0	0	0
20	.10	10		0	0		0	0	0
21	.10	10		0	0		0	0	0
22	.10	10		0	0		0	0	0
23	.10	10		0	0		0	0	0
24	.10	10		0	0		0	0	0
25	.10	10		0	0		0	0	0
26	.10	10		0	0		0	0	0
27	.10	10		0	0		0	0	0
28	.10	10		0	0		0	0	0
29	.10	10		0	0		0	0	0
30	.10	10		0	0		0	0	0
31	.10	10		0	0		---	---	---
TOTAL	3.10	---	0	.15	---	0	497.00	---	4742.00
YEAR	1448.69		6934.71						

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

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1975	0.0	0.0	0	0
NOVEMBER ...	0.0	0.0	0	0
DECEMBER ...	0.0	0.0	0	0
JANUARY 1976	0.0	0.0	0	0
FEBRUARY ...	628.68	1405.54	688	2090
MARCH	209.66	447.71	169	617
APRIL	104.00	339.42	75	414
MAY	3.10	0.0	0	0
JUNE	3.00	0.04	0	0
JULY	3.10	0.0	0	0
AUGUST	0.15	0.0	0	0
SEPTEMBER ..	497.00	4742.00	796	5540
TOTAL	1448.69	6934.71	1728	8661

11078000 SANTA ANA RIVER AT SANTA ANA, CA--Continued

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

DATE	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
FEB 06...	91	--	94	--	99	--	100	--	--	--
07...	56	--	71	--	94	--	100	--	--	--
07...	39	--	49	--	75	--	93	--	100	--
08...	54	--	64	--	85	--	98	--	100	--
09...	--	68	--	85	--	94	--	100	--	--
MAR 01...	58	--	75	--	93	--	99	--	100	--
03...	76	--	85	--	96	--	99	--	100	--
MAY 03...	98	--	100	--	--	--	--	--	--	--
SEP 10...	52	--	64	--	73	--	81	--	94	98

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
FEB 06...	1130	12.0	24	258	17	63	80	86	90	91	--
07...	1040	12.0	129	387	135	29	39	46	52	55	--
07...	1405	--	60	419	68	--	--	--	--	--	--
08...	1435	14.5	214	611	353	22	28	36	45	51	--
09...	1220	14.0	475	2130	2730	19	25	30	37	45	58
MAR 01...	1445	16.0	417	832	937	23	28	34	40	47	--
03...	1200	11.5	153	659	272	31	38	44	54	64	--
MAY 03...	1345	20.5	.15	139	.06	--	--	--	--	--	--
SEP 10...	1545	--	214	5600	3240	11	14	19	27	38	--

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

DATE	TIME	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
SEP 29...	1200	3	.00	1	15	55	88	97	100

SANTA ANA RIVER BASIN

11078100 SANTA ANA RIVER AT ADAMS AVENUE, NEAR COSTA MESA, CA

LOCATION.--Lat 33°40'19", long 117°56'42", on line between secs.5 and 8, T.6 S., R.10 W., Orange County, 0.5 mi (0.8 km) east of Brookhurst Street, 1.3 mi (2.1 km) northwest of Fairview State Hospital and 2.5 mi (4.0 km) northwest of Costa Mesa.

DRAINAGE AREA.--1,700 mi² (4,403 km²), excludes 768 mi² (1,989 km²) above Lake Elsinore.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Nonrecording gage. Altitude of gage is 12 ft (3.7 m), from topographic map.

REMARKS.--Records poor. Discharge is computed from nonrecording gage readings made during periods of flow.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,100 ft³/s (144 m³/s) Dec. 4, 1974, gage height, 8.30 ft (2.530 m); no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,000 ft³/s (28.3 m³/s) Feb. 9, gage height, 5.46 ft (1.664 m); no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	90	0					0
2					0	16	0					0
3					0	120	0					0
4					0	6.5	0					0
5					0	0	0					0
6					31	0	0					0
7					38	0	0					0
8					78	0	0					0
9					350	0	0					0
10					70	0	0					230
11					32	0	0					185
12					17	0	0					.83
13					7.0	0	52					0
14					0	0	2.2					0
15					0	0	0					0
16					0	0	0					0
17					0	0	0					0
18					0	0	0					0
19					0	0	0					0
20					0	0	0					0
21					0	0	0					0
22					0	0	0					0
23					0	0	0					0
24					0	0	0					0
25					0	0	0					0
26					0	0	0					0
27					0	0	0					0
28					0	0	0					0
29					0	0	0					0
30					---	0	0					0
31		---			---	0	---		---			---
TOTAL	0	0	0	0	623.0	232.5	54.2	0	0	0	0	415.83
MEAN	0	0	0	0	21.5	7.50	1.81	0	0	0	0	13.9
MAX	0	0	0	0	350	120	52	0	0	0	0	230
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	1240	461	108	0	0	0	0	825
CAL YR 1975	TOTAL	1473.00	MEAN 4.04	MAX 228	MIN 0	AC-FT 2920						
WTR YR 1976	TOTAL	1325.53	MEAN 3.62	MAX 350	MIN 0	AC-FT 2630						

11078100 SANTA ANA RIVER AT ADAMS AVENUE, NEAR COSTA MESA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1973 to current year.

SEDIMENT RECORDS: October 1973 to current year.

REMARKS.--Sediment table omitted for period of no flow during October to December. Particle-size distribution of bed material table was omitted in the 1975 water year and is published with 1976 water year records.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 10,200 mg/l Jan. 9, 1974; minimum daily mean, no flow for many days each year.

SEDIMENT DISCHARGE: Maximum daily, 27,800 tons (25,200 tonnes) Jan. 9, 1974; minimum daily, 0 tons on many days each year.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,760 mg/l Sept. 10; minimum daily mean, no flow for many days.

SEDIMENT DISCHARGE: Maximum daily, 3,930 tons (3,560 tonnes) Sept. 10; minimum daily, 0 tons on many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					---	---	---					---
2					---	15.0	---					---
3					---	13.0	---					---
4					---	12.5	---					---
5					---	---	---					---
6					14.5	---	---					---
7					14.0	---	---					---
8					15.0	---	---					---
9					15.0	---	---					---
10					15.5	---	---					24.5
11					20.5	---	---					21.0
12					22.0	---	---					---
13					15.5	---	14.0					---
14					---	---	20.0					---
15					---	---	---					---
16					---	---	---					---
17					---	---	---					---
18					---	---	---					---
19					---	---	---					---
20					---	---	---					---
21					---	---	---					---
22					---	---	---					---
23					---	---	---					---
24					---	---	---					---
25					---	---	---					---
26					---	---	---					---
27					---	---	---					---
28					---	---	---					---
29					---	---	---					---
30					---	---	---					---
31					---	---	---					---
MONTH					---	---	---					---

SANTA ANA RIVER BASIN

11078100 SANTA ANA RIVER AT ADAMS AVENUE, NEAR COSTA MESA, CA--Continued

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

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				0	0	0	90	290	290
2				0	0	0	16	72	6.6
3				0	0	0	120	470	287
4				0	0	0	6.5	48	1.3
5				0	0	0	0	0	0
6				31	379	92	0	0	0
7				38	453	96	0	0	0
8				78	644	151	0	0	0
9				350	1630	1930	0	0	0
10				70	460	97	0	0	0
11				32	390	34	0	0	0
12				17	260	12	0	0	0
13				7.0	150	2.8	0	0	0
14				0	52	0	0	0	0
15				0	0	0	0	0	0
16				0	0	0	0	0	0
17				0	0	0	0	0	0
18				0	0	0	0	0	0
19				0	0	0	0	0	0
20				0	0	0	0	0	0
21				0	0	0	0	0	0
22				0	0	0	0	0	0
23				0	0	0	0	0	0
24				0	0	0	0	0	0
25				0	0	0	0	0	0
26				0	0	0	0	0	0
27				0	0	0	0	0	0
28				0	0	0	0	0	0
29				0	0	0	0	0	0
30				---	---	---	0	0	0
31				---	---	---	0	0	0
TOTAL	0	0	0	623.00	---	2414.80	232.50	---	584.90

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	0	0	0						
2	0	0	0						
3	0	0	0						
4	0	0	0						
5	0	0	0						
6	0	0	0						
7	0	0	0						
8	0	0	0						
9	0	0	0						
10	0	0	0						
11	0	0	0						
12	0	0	0						
13	52	362	108						
14	2.2	25	.15						
15	0	0	0						
16	0	0	0						
17	0	0	0						
18	0	0	0						
19	0	0	0						
20	0	0	0						
21	0	0	0						
22	0	0	0						
23	0	0	0						
24	0	0	0						
25	0	0	0						
26	0	0	0						
27	0	0	0						
28	0	0	0						
29	0	0	0						
30	0	0	0						
31	---	---	---						
TOTAL	54.20	---	108.15	0	0	0	0	0	0

11078100 SANTA ANA RIVER AT ADAMS AVENUE, NEAR COSTA MESA, CA--Continued

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

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							0	0	0
2							0	0	0
3							0	0	0
4							0	0	0
5							0	0	0
6							0	0	0
7							0	0	0
8							0	0	0
9							0	0	0
10							230	2760	3930
11							185	1950	2950
12							.83	10	.05
13							0	0	0
14							0	0	0
15							0	0	0
16							0	0	0
17							0	0	0
18							0	0	0
19							0	0	0
20							0	0	0
21							0	0	0
22							0	0	0
23							0	0	0
24							0	0	0
25							0	0	0
26							0	0	0
27							0	0	0
28							0	0	0
29							0	0	0
30							0	0	0
31							---	---	---
TOTAL	0	0	0	0	0	0	415.83	---	6880.05
YEAR	1325.53		9987.90						

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

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1975	0.0	0.0	0	0
NOVEMBER ...	0.0	0.0	0	0
DECEMBER ...	0.0	0.0	0	0
JANUARY 1976	0.0	0.0	0	0
FEBRUARY ...	623.00	2414.80	1040	3450
MARCH	232.50	584.90	257	842
APRIL	54.20	108.15	37	145
MAY	0.0	0.0	0	0
JUNE	0.0	0.0	0	0
JULY	0.0	0.0	0	0
AUGUST	0.0	0.0	0	0
SEPTEMBER ..	415.83	6880.05	768	7650
TOTAL	1325.53	9987.90	2102	12087

SANTA ANA RIVER BASIN

11078100 SANTA ANA RIVER AT ADAMS AVENUE, NEAR COSTA MESA, CA--Continued

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

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE D SEDI- MENT (MG/L)	SUS- PENDE D SEDI- MENT CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
FEB									
06...	1315	14.5	41	1210	134	44	60	75	87
07...	1430	14.0	90	1190	289	31	43	56	68
09...	1230	15.0	280	1920	1450	33	42	55	68
09...	1305	15.0	360	2720	2640	24	30	39	47
SEP									
10...	1715	24.5	51	2840	391	38	54	71	86
10...	1755	24.0	400	9600	10400	34	41	60	80
10...	1800	24.0	620	8980	15000	37	45	64	84
11...	1440	--	5.0	253	3.4	--	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM
FEB								
06...	94	96	--	97	--	100	--	--
07...	79	86	--	93	--	100	--	--
09...	80	93	--	100	--	--	--	--
09...	58	74	--	91	--	99	--	100
SEP								
10...	95	--	98	--	99	--	100	--
10...	96	--	99	--	100	--	--	--
10...	97	--	99	--	99	--	100	--
11...	--	--	98	--	99	--	100	--

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

DATE	TIME	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	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
SEP	29...	1145	3	.00	11	34	62	89	96	98	98	100

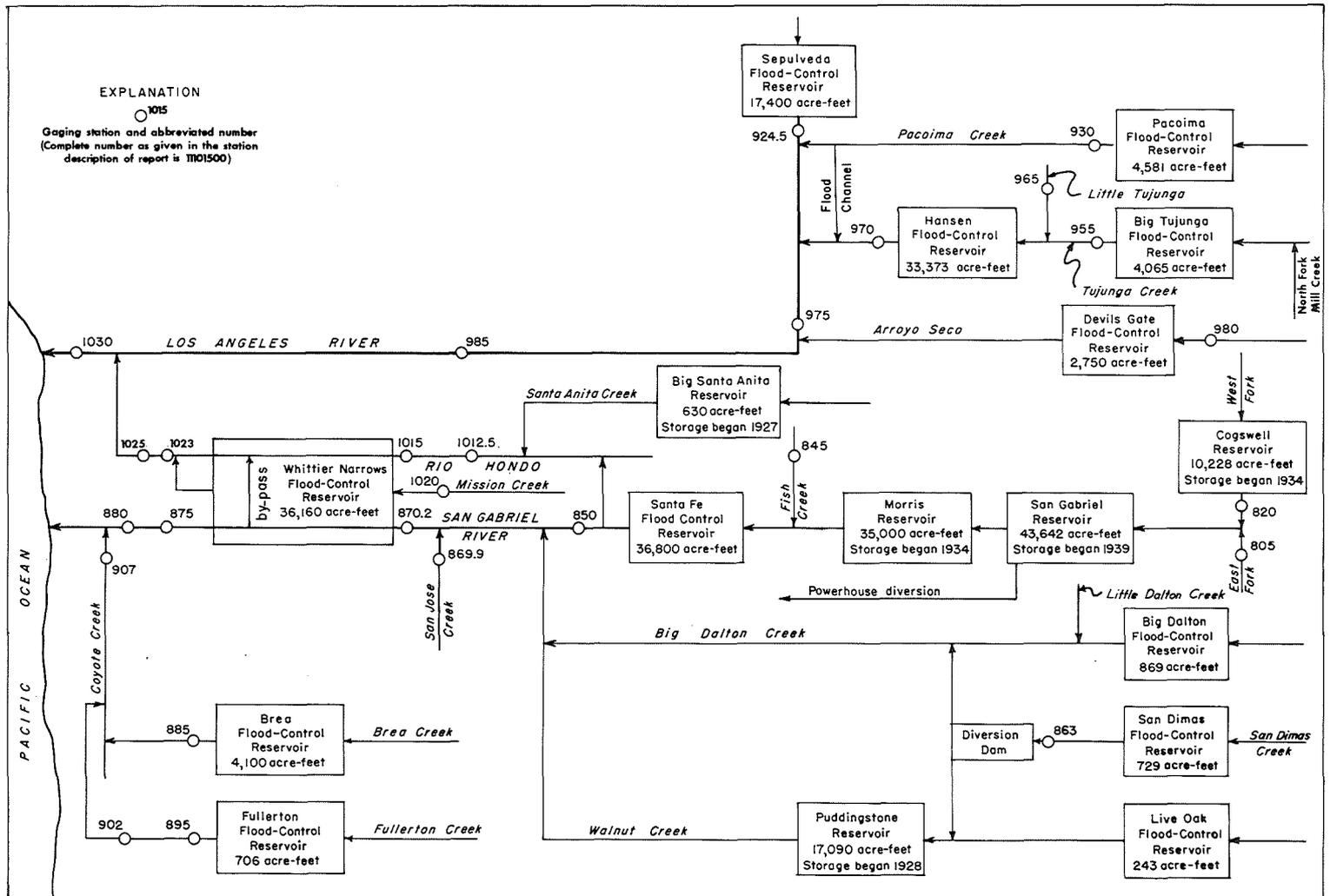


Figure 6.--Schematic diagram showing diversions and storage in San Gabriel and Los Angeles River basins.

SAN GABRIEL RIVER BASIN

11080500 EAST FORK SAN GABRIEL RIVER NEAR CAMP BONITA, CA

LOCATION.--Lat 34°14'09", long 117°48'18", in NE¼NE¼ sec.27, T.2 N., R.9 W., Los Angeles County, on right bank 1,600 ft (400 m) upstream from mouth of Graveyard Canyon, 2.5 mi (4.0 km) upstream from confluence with West Fork, and 2.5 mi (4.0 km) west of Camp Bonita.

DRAINAGE AREA.--84.6 mi² (219.1 km²).

PERIOD OF RECORD.--December 1932 to current year. Prior to 1940, published as San Gabriel River near Camp Bonita.

GAGE.--Water-stage recorder. Datum of gage is 1,567.04 ft (477.634 m) above mean sea level (levels by Los Angeles County Flood Control District). Prior to Dec. 10, 1938, at site 0.6 mi (1.0 km) downstream at different datum.

REMARKS.--Records fair. No regulation or diversion above station. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records were furnished by Los Angeles County Flood Control District.

AVERAGE DISCHARGE.--43 years (water years 1934-76), 67.6 ft³/s (1.914 m³/s), 48,980 acre-ft/yr (60.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46,000 ft³/s (1,300 m³/s) Mar. 2, 1938, from rating curve extended above 21,300 ft³/s (603 m³/s), computed by Geological Survey; minimum 1.5 ft³/s (0.042 m³/s) Oct. 1, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 5,120 ft³/s (145 m³/s) Sept. 10, gage height, 12.22 ft (3.725 m); minimum daily, 8.7 ft³/s (0.25 m³/s) Aug. 30, 31 and Sept. 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	10	15	13	11	88	54	51	29	19	12	9.0
2	10	11	14	14	11	128	54	52	28	19	12	9.0
3	9.3	12	14	13	11	91	54	52	28	19	12	9.6
4	9.3	13	14	13	13	96	55	52	28	18	12	9.6
5	9.0	12	14	13	14	89	53	53	28	17	12	8.7
6	9.3	11	14	12	29	70	52	52	27	18	12	10
7	9.3	11	14	12	38	69	49	51	26	17	12	11
8	9.6	11	14	12	159	69	48	49	26	17	12	12
9	9.6	11	14	12	311	69	47	48	26	17	12	13
10	10	10	14	13	131	69	45	47	26	17	12	239
11	10	10	15	13	92	68	44	45	27	16	12	389
12	9.3	9.6	17	13	99	66	44	44	26	16	11	92
13	9.6	9.6	17	13	97	65	48	44	27	17	12	53
14	10	9.6	16	13	95	65	44	43	27	16	12	46
15	10	9.6	16	13	95	63	45	41	24	15	12	43
16	11	11	16	12	67	63	44	38	24	15	12	38
17	11	11	15	12	56	62	43	37	23	15	12	35
18	12	12	14	12	51	63	43	35	23	14	12	33
19	11	12	14	11	49	62	43	35	22	14	12	34
20	12	12	15	10	47	60	44	35	20	14	12	31
21	11	12	15	10	44	59	44	35	21	14	11	31
22	12	12	14	10	41	59	47	35	21	14	11	30
23	12	11	15	10	41	60	49	35	21	14	10	29
24	12	12	14	11	40	60	50	34	21	14	10	28
25	12	12	13	11	38	60	51	34	20	14	9.6	29
26	12	14	13	11	37	59	51	33	20	15	9.6	29
27	11	15	12	11	38	59	51	32	20	14	9.6	28
28	11	16	12	11	38	57	51	32	20	15	9.6	27
29	10	15	12	11	39	56	51	32	19	14	10	25
30	10	15	13	11	---	55	51	31	18	14	8.7	26
31	11	---	13	11	---	54	---	30	---	13	8.7	---
TOTAL	326.3	352.4	442	367	1832	2113	1449	1267	716	485	346.8	1406.9
MEAN	10.5	11.7	14.3	11.8	63.2	68.2	48.3	40.9	23.9	15.6	11.2	46.9
MAX	12	16	17	14	311	128	55	53	29	19	12	389
MIN	9.0	9.6	12	10	11	54	43	30	18	13	8.7	8.7
AC-FT	647	699	877	728	3630	4190	2870	2510	1420	962	688	2790
CAL YR 1975 TOTAL	8893.0		MEAN 24.4	MAX 119	MIN 8.4	AC-FT 17640						
WTR YR 1976 TOTAL	11103.4		MEAN 30.3	MAX 389	MIN 8.7	AC-FT 22020						

11082000 WEST FORK SAN GABRIEL RIVER AT CAMP RINCON, CA

LOCATION.--Lat 34°14'28", long 117°51'45", Los Angeles County, in Angeles National Forest, on right bank 0.2 mi (0.3 km) upstream from Camp Rincon, 0.5 mi (0.8 km) downstream from North Fork, and 6 mi (10 km) downstream from Cogswell Dam.

DRAINAGE AREA.--104 mi² (269 km²).

PERIOD OF RECORD.--October 1927 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,474.94 ft (449.562 m) above mean sea level (levels by Los Angeles County Flood Control District). See WSP 1735 for history of changes prior to July 3, 1941.

REMARKS.--Records good. Flow partly regulated by Cogswell flood-control reservoir since 1934, capacity, 9,339 acre-ft (11.5 hm³). No diversion above station. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records were furnished by Los Angeles County Flood Control District.

AVERAGE DISCHARGE.--49 years, 66.2 ft³/s (1.875 m³/s), 47,960 acre-ft/yr (59.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,000 ft³/s (963 m³/s), estimated, Mar. 2, 1938; no flow at times in 1928-29.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 757 ft³/s (21.4 m³/s) Feb. 9, gage height, 15.83 ft (4.825 m); minimum daily, 7.7 ft³/s (0.22 m³/s) July 21.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	10	10	13	10	99	28	21	13	9.2	16	14
2	33	10	10	13	11	81	27	21	13	9.2	16	14
3	33	9.7	10	12	11	80	27	20	13	9.2	16	15
4	33	9.7	10	12	14	67	29	20	14	9.2	15	16
5	33	9.7	11	12	22	62	27	20	15	9.2	15	15
6	32	9.7	11	13	64	57	25	21	15	8.4	14	15
7	33	9.7	11	12	76	54	25	20	14	8.1	14	16
8	33	9.7	11	11	228	51	26	19	15	8.1	13	15
9	33	9.7	10	11	506	49	26	18	15	8.4	13	15
10	33	10	10	11	228	47	25	18	15	8.8	14	57
11	36	10	10	10	96	45	26	17	15	8.8	13	239
12	35	10	11	10	70	43	28	16	14	8.8	13	51
13	35	9.7	12	10	59	42	37	16	13	9.6	13	34
14	33	9.4	11	9.6	55	40	29	16	13	9.6	14	29
15	32	9.4	11	9.6	51	38	29	16	12	9.6	15	30
16	32	9.1	11	9.2	46	37	29	15	12	9.6	15	46
17	30	9.1	11	9.2	43	37	27	15	12	9.2	15	45
18	29	9.7	11	8.8	43	37	27	14	11	8.8	15	45
19	29	9.7	11	8.8	43	37	26	14	11	8.4	15	43
20	29	9.7	11	8.8	41	36	26	15	11	8.1	16	42
21	29	9.7	11	8.8	39	33	25	15	10	7.7	15	42
22	23	9.7	11	8.4	37	33	26	15	10	9.2	15	42
23	11	9.7	12	8.4	36	32	26	15	9.6	16	15	41
24	10	9.1	12	8.8	34	32	25	15	9.6	15	15	42
25	10	9.1	12	8.8	33	32	23	15	9.6	15	15	42
26	10	9.7	11	8.4	32	31	23	15	9.6	15	15	41
27	9.7	10	11	8.4	32	30	24	14	9.2	15	15	40
28	10	12	11	8.4	31	30	24	15	9.2	15	14	40
29	10	11	11	8.8	31	30	23	15	9.2	15	14	40
30	10	11	11	9.6	---	29	22	15	8.8	16	13	40
31	10	---	12	10	---	30	---	14	---	16	13	---
TOTAL	791.7	294.7	339	310.8	2022	1381	790	515	360.8	333.2	449	1206
MEAN	25.5	9.82	10.9	10.0	69.7	44.5	26.3	16.6	12.0	10.7	14.5	40.2
MAX	36	12	12	13	506	99	37	21	15	16	16	239
MIN	9.7	9.1	10	8.4	10	29	22	14	8.8	7.7	13	14
AC-FT	1570	585	672	616	4010	2740	1570	1020	716	661	891	2390
CAL YR 1975	TOTAL	9984.4	MEAN	27.4	MAX	175	MIN	9.1	AC-FT	19800		
WTR YR 1976	TOTAL	8793.2	MEAN	24.0	MAX	506	MIN	7.7	AC-FT	17440		

SAN GABRIEL RIVER BASIN

11082800 SAN GABRIEL RIVER AT AZUSA POWERHOUSE, AT AZUSA, CA

LOCATION.--Lat 34°09'18", long 117°54'26', in NE&SE¼ sec.22, T.1 N., R.10 W., Los Angeles County, at tailrace of Azusa Powerhouse, and 1 mi (2 km) north of Azusa.

PERIOD OF RECORD.--Chemical analyses: December 1907 to December 1908, water year 1967 to current year.

REMARKS.--Records of discharge were furnished by Los Angeles County Flood Control District.

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA, MG)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG)	DISSOLVED SODIUM (NA) (MG/L)
OCT 29...	1315	70	330	8.1	16.0	1	9.9	160	7	45	11	10
NOV 21...	1200	19	360	8.2	13.0	8	11.2	172	14	50	11	11
DEC 19...	1230	24	320	8.2	9.5	1	12.0	177	13	52	12	10
JAN 29...	1135	24	310	8.2	10.0	4	11.9	180	14	52	12	11
FEB 25...	1230	51	250	7.7	11.0	18	10.7	144	17	43	8.9	7.8
MAR 29...	1145	76	265	8.0	11.5	2	11.3	156	14	48	8.8	8.0
APR 23...	1200	49	320	8.0	13.0	1	10.3	162	14	48	10	8.5
MAY 21...	1130	50	325	7.8	14.0	3	10.1	162	11	48	11	8.7
MAY 21...	1200	50	--	--	14.0	--	--	--	--	--	--	--
JUN 24...	1015	49	320	7.8	18.5	4	9.4	164	11	47	11	8.5
JUL 29...	1430	52	320	7.7	21.0	3	8.5	158	10	45	11	9.6
SEP 02...	1525	52	333	8.1	23.5	2	8.4	163	7	46	12	11

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (PER AC-FT)
OCT 29...	12	.3	3.1	174	6	153	2.4	26	4.2	.5	206	.28
NOV 21...	12	.4	3.5	193	0	158	1.9	30	3.9	.5	236	.32
DEC 19...	11	.3	3.1	200	0	164	2.0	32	4.3	.5	242	.33
JAN 29...	12	.4	3.1	192	5	166	2.0	35	3.9	.5	217	.30
FEB 25...	10	.3	3.1	155	0	127	4.9	28	2.8	.5	184	.25
MAR 29...	10	.3	2.7	173	0	142	2.8	30	3.2	.4	191	.26
APR 23...	10	.3	2.3	181	0	148	2.9	26	2.8	.5	177	.24
MAY 21...	10	.3	3.1	184	0	151	4.7	27	1.8	.5	232	.32
MAY 21...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 24...	10	.3	3.1	187	0	153	4.7	24	3.5	.4	164	.22
JUL 29...	11	.3	3.1	181	0	148	5.8	26	3.9	.5	120	.16
SEP 02...	12	.4	3.5	190	0	156	2.4	27	3.5	.5	190	.26

SAN GABRIEL RIVER BASIN

11084500 FISH CREEK NEAR DUARTE, CA

LOCATION.--Lat 34°09'57", long 117°55'24", in SW¼SW¼SW¼ sec.15, T.1 N., R.10 W., Los Angeles County, on left bank 0.8 mi (1.3 km) upstream from mouth of canyon, and 3.2 mi (5.1 km) northeast of Duarte.

DRAINAGE AREA.--6.36 mi² (16.47 km²).

PERIOD OF RECORD.--July to September 1916, July 1917 to current year.

GAGE.--Water-stage recorder. Broad-crested weir since July 1917, restored in December 1938. Datum of gage is 905.9 ft (276.12 m) above mean sea level. See WSP 1315-B for history of changes prior to Dec. 7, 1938. Dec. 7, 1938, to Oct. 3, 1951, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records fair. No regulation or diversion above station. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records were furnished by Los Angeles County Flood Control District.

AVERAGE DISCHARGE.--59 years (water years 1918-76), 4.51 ft³/s (0.128 m³/s), 3,270 acre-ft/yr (4.03 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,000 ft³/s (368 m³/s) Jan. 25, 1969, gage height, 11.98 ft (3.652 m), from inside gage, from rating curve extended above 1,100 ft³/s (31.2 m³/s) on basis of slope-area measurement of maximum flow; maximum gage height, about 14.5 ft (4.42 m) Feb. 11, 16, 1959 (from debris wave); no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 145 ft³/s (4.11 m³/s) Mar. 1, gage height, 3.25 ft (0.991 m); minimum daily, 0.10 ft³/s (0.003 m³/s) June 24 to July 10; Aug. 12-15, Aug. 31 to Sept. 9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	.70	.90	1.0	1.2	37	1.2	.80	.40	.10	.20	.10
2	.40	.70	.80	1.0	1.4	19	1.2	1.1	.40	.10	.20	.10
3	.40	.70	.80	1.0	1.4	22	1.3	1.3	.40	.10	.20	.10
4	.30	.70	.80	1.0	6.5	12	1.8	1.3	.50	.10	.20	.10
5	.30	.70	.90	1.0	15	7.8	1.4	1.5	.50	.10	.20	.10
6	.30	.70	.90	1.1	17	5.4	1.3	1.6	.40	.10	.20	.10
7	.50	.80	.70	1.0	8.7	4.4	1.3	1.7	.30	.10	.20	.10
8	.50	.80	.70	.90	14	4.0	1.3	1.4	.30	.10	.20	.10
9	.50	.90	.80	.80	41	3.4	1.3	1.3	.40	.10	.20	.10
10	.50	.90	.80	.90	16	3.0	1.2	1.0	.50	.10	.20	6.1
11	1.0	.90	.90	.90	4.8	2.8	1.1	.90	.40	.20	.20	18
12	.70	.80	1.3	.90	2.0	2.5	1.2	.80	.50	.20	.10	2.0
13	.60	.70	1.1	.90	1.7	2.1	2.2	.60	.70	.20	.10	1.6
14	.60	.70	1.0	.90	1.6	2.0	1.4	.50	.90	.20	.10	1.1
15	.50	.70	.90	.90	1.4	1.8	1.7	.50	.50	.20	.10	1.2
16	.40	.70	.90	.90	1.4	1.7	1.5	.50	.40	.40	.20	1.0
17	.40	.90	.90	.90	1.5	1.6	1.3	.50	.40	.40	.20	.90
18	.50	.90	.90	.90	1.6	1.6	1.3	.50	.50	.40	.20	.80
19	.60	.90	.90	.80	1.6	1.6	1.4	.40	.40	.30	.20	.80
20	.60	.80	.80	.80	1.7	1.6	1.3	.40	.30	.30	.20	.70
21	.70	.90	.80	.80	1.6	1.5	1.3	.50	.20	.20	.20	.70
22	.70	.80	.80	.90	1.5	1.4	1.3	.50	.20	.30	.20	.70
23	.60	.80	.90	.90	1.5	1.3	1.2	.40	.20	.30	.20	.60
24	.60	.70	.90	1.0	1.5	1.4	.90	.40	.10	.20	.20	.60
25	.60	.70	.90	1.1	1.6	1.5	.80	.50	.10	.20	.20	.70
26	.60	.70	.90	1.0	1.6	1.3	.70	.50	.10	.20	.20	.60
27	.60	1.1	.80	1.0	1.6	1.3	.70	.30	.10	.20	.20	.60
28	.70	1.3	.90	.90	1.6	1.3	.80	.50	.10	.20	.20	.60
29	.60	1.3	1.0	1.1	1.6	1.3	.80	.60	.10	.20	.20	.60
30	.70	1.3	1.0	1.2	---	1.2	.70	.60	.10	.20	.20	.50
31	.90	---	1.0	1.2	---	1.2	---	.50	---	.20	.10	---
TOTAL	17.40	25.20	27.60	29.60	155.6	152.0	36.90	23.90	10.40	6.20	5.70	41.30
MEAN	.56	.84	.89	.95	5.37	4.90	1.23	.77	.35	.20	.18	1.38
MAX	1.0	1.3	1.3	1.2	41	37	2.2	1.7	.90	.40	.20	18
MIN	.30	.70	.70	.80	1.2	1.2	.70	.30	.10	.10	.10	.10
AC-FT	35	50	55	59	309	301	73	47	21	12	11	82

CAL YR 1975 TOTAL 838.00 MEAN 2.30 MAX 30 MIN .20 AC-FT 1660
WTR YR 1976 TOTAL 531.80 MEAN 1.45 MAX 41 MIN .10 AC-FT 1050

SAN GABRIEL RIVER BASIN

11085000 SAN GABRIEL RIVER BELOW SANTA FE DAM, NEAR BALDWIN PARK, CA

LOCATION.--Lat 34°06'44", long 117°58'07", in SE¼NE¼SW¼ sec.6, T.1 S., R.10 W., Los Angeles County, on left bank at stilling basin of outlet of Santa Fe flood-control dam, 500 ft (152 m) downstream from axis of dam, and 1.7 mi (2.7 km) north of Baldwin Park.

DRAINAGE AREA.--236 mi² (611 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 400.00 ft (121.920 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records fair. Flow regulated by Cogswell and San Gabriel flood-control reservoirs, combined capacity, 53,870 acre-ft (66.4 hm³), Morris Reservoir, capacity, 35,000 acre-ft (43.2 hm³), and Santa Fe flood-control reservoir, capacity, 32,640 acre-ft (40.2 hm³). Diversions above station for irrigation, power development, and ground-water replenishment. At times water diverted from side of stilling basin to headwaters of Rio Hondo; no flow was diverted during current year. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records of diversion to Rio Hondo were furnished by Los Angeles County Flood Control District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,900 ft³/s (875 m³/s) Jan. 26, 1969, gage height, 22.20 ft (6.767 m); no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2.8 ft³/s (0.079 m³/s) Mar. 2, gage height, 10.20 ft (3.110 m); no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						.44						0
2						1.8						0
3						1.3						0
4						.70						0
5						.40						0
6						.09						0
7						.04						0
8						0						0
9						0						0
10						0						0
11						0						.56
12						0						2.3
13						0						1.4
14						0						.73
15						0						.37
16						0						.12
17						0						.03
18						0						0
19						0						0
20						0						0
21						0						0
22						0						0
23						0						0
24						0						0
25						0						0
26						0						0
27						0						0
28						0						0
29						0						0
30						0						0
31		---			---	0	---		---			---
TOTAL	0	0	0	0	0	4.77	0	0	0	0	0	5.51
MEAN	0	0	0	0	0	.15	0	0	0	0	0	.18
MAX	0	0	0	0	0	1.8	0	0	0	0	0	2.3
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	9.5	0	0	0	0	0	11
CAL YR 1975	TOTAL	386.70	MEAN	1.06	MAX	74	MIN	0	AC-FT	767		
WTR YR 1976	TOTAL	10.28	MEAN	.028	MAX	2.3	MIN	0	AC-FT	20		

SAN GABRIEL RIVER BASIN

11086300 SAN DIMAS CREEK BELOW SAN DIMAS DAM, CA

LOCATION.--Lat 34°09'10", long 117°46'18", in SW¼SE¼ sec.24, T.1 N., R.9 W., Los Angeles County, on left bank 1,000 ft (305 m) downstream from San Dimas Dam, and 3.7 mi (6.0 km) northeast of San Dimas.

DRAINAGE AREA.--16.3 mi² (42.2 km²).

PERIOD OF RECORD.--October 1951 to current year. Prior to October 1956 monthly discharge only, published in WSP 1735.

GAGE.--Water-stage recorder and low-flow concrete control. Datum of gage is 1,325.0 ft (403.86 m) above mean sea level (levels by Los Angeles County Flood Control District).

REMARKS.--Records fair. Flow regulated by San Dimas flood-control reservoir, capacity, 756 acre-ft (932,000 m³) and at times by old water tunnel 150 ft (45 m) upstream. No diversion above station. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records were furnished by Los Angeles County Flood Control District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,280 ft³/s (121 m³/s) Jan. 25, 1969, gage height, 6.98 ft (2.128 m), from rating curve extended above 600 ft³/s (17.0 m³/s) on basis of computation of maximum flow over dam; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 9.3 ft³/s (0.26 m³/s) Mar. 6-12; minimum daily, 0.04 ft³/s (0.001 m³/s) Apr. 15-21.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.80	.60	.30	.30	.30	1.0	.40	1.0	1.0	2.5	1.0	1.0
2	.80	.60	.30	.30	.60	.90	.40	.60	1.0	2.1	1.2	.90
3	.80	.60	.30	.30	.60	.80	.40	.50	.80	1.8	1.2	.90
4	.80	.60	.30	.30	.60	.80	.40	.50	.80	1.6	1.0	.90
5	.80	.60	.30	.30	.60	6.2	.40	.50	.80	1.5	1.0	.90
6	.80	.60	.30	.30	.80	9.3	.60	.50	.80	1.5	.70	.90
7	.80	.60	.20	.30	.80	9.3	.60	.50	.80	1.6	.60	1.0
8	.80	.60	.20	.30	.80	9.3	.60	.50	.80	1.6	.70	.90
9	.80	.50	.20	.30	.90	9.3	.40	.50	.80	1.6	.70	.70
10	.60	.50	.20	.30	.60	9.3	.80	.50	.80	1.6	.70	1.0
11	.30	.50	.20	.30	.40	9.3	.90	.50	.80	1.6	.70	.10
12	.20	.50	.20	.30	.40	9.3	.90	.80	.80	1.6	.60	.10
13	.20	.50	.20	.30	.40	8.7	.90	1.0	.80	1.8	.70	.10
14	.20	.50	.30	.30	.40	8.7	.30	1.0	.90	1.6	.90	.10
15	.20	.50	.30	.30	.40	8.7	.04	1.2	.90	1.2	.90	.10
16	.30	.50	.30	.30	.30	8.2	.04	1.2	1.0	1.0	1.0	3.8
17	1.2	.40	.30	.30	.30	7.2	.04	1.2	.90	1.0	1.0	6.1
18	1.4	.40	.30	.30	.30	7.7	.04	1.2	1.6	.90	.90	7.7
19	1.2	.40	.30	.30	.30	8.2	.04	1.2	2.1	1.0	.90	7.7
20	1.0	.40	.30	.30	.30	5.1	.04	.60	2.1	1.0	.90	5.6
21	.90	.40	.30	.30	.30	4.4	.04	.40	1.8	1.0	.90	6.7
22	.80	.40	.30	.30	.30	1.7	.40	.90	1.8	1.2	.90	8.2
23	.60	.40	.30	.30	.30	.40	1.0	.90	1.5	1.2	.90	7.7
24	.60	.40	.30	.30	.40	.40	1.0	.90	1.3	1.3	.90	8.2
25	.60	.40	.30	.30	.40	.40	1.0	.90	1.3	1.5	.90	8.2
26	.60	.40	.30	.30	.40	.40	1.0	.90	1.5	1.5	1.2	7.7
27	.60	.40	.30	.30	.40	.40	1.0	.90	1.5	1.6	1.2	8.2
28	.60	.40	.30	.30	.60	.40	1.0	.90	1.5	1.6	1.0	5.4
29	.60	.40	.30	.30	.60	.40	1.0	.90	2.5	1.0	1.0	.10
30	.60	.40	.30	.30	---	.40	1.0	.90	3.1	.90	1.0	.40
31	.60	---	.30	.30	---	.40	---	.90	---	1.0	1.0	---
TOTAL	21.10	14.40	8.60	9.30	13.80	147.00	16.68	24.90	38.10	43.90	28.20	101.30
MEAN	.68	.48	.28	.30	.48	4.74	.56	.80	1.27	1.42	.91	3.38
MAX	1.4	.60	.30	.30	.90	9.3	1.0	1.2	3.1	2.5	1.2	8.2
MIN	.20	.40	.20	.30	.30	.40	.04	.40	.80	.90	.60	.10
AC-FT	42	29	17	18	27	292	33	49	76	87	56	201
CAL YR 1975	TOTAL	721.90	MEAN	1.98	MAX	18	MIN	.20	AC-FT	1430		
WTR YR 1976	TOTAL	467.28	MEAN	1.28	MAX	9.3	MIN	.04	AC-FT	927		

11086990 SAN JOSE CREEK NEAR EL MONTE, CA

LOCATION.--Lat 34°01'55", long 118°00'40", in El Monte Grant, Los Angeles County, on right bank of San Jose flood channel, 1,650 ft (503 m) upstream from Workman Mill Road, and 2.7 mi (4.3 km) southeast of El Monte.

DRAINAGE AREA.--87.8 mi² (227 km²).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 248.52 ft (75.749 m) above mean sea level (levels by Los Angeles County Flood Control District).

REMARKS.--Records poor. No regulation above station. One small diversion for ground-water recharge. At times effluent from city of Pomona's sewage reclamation plant is released to creek above Spadra and at Lemon Street. Bypass to the original San Jose Creek channel has been closed since Oct. 1, 1964. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records were furnished by Los Angeles County Flood Control District.

AVERAGE DISCHARGE.--12 years, 33.3 ft³/s (0.943 m³/s), 24,130 acre-ft/yr (29.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,200 ft³/s (289 m³/s) Jan. 24, 1967, gage height, 6.80 ft (2.073 m), from outside gage; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,000 ft³/s (142 m³/s) Sept. 10, gage height, 5.72 ft (1.743 m); minimum daily, 5.0 ft³/s (0.14 m³/s) Dec. 2, 3, Jan. 20, 21, 24, 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	18	9.0	9.0	10	377	10	11	10	13	11	10
2	21	18	5.0	9.0	10	106	11	11	10	13	11	12
3	21	17	5.0	9.0	10	103	15	11	10	13	11	75
4	21	7.0	10	9.0	198	25	303	11	10	13	9.0	30
5	21	7.0	10	9.0	290	15	30	11	10	13	9.0	50
6	21	6.0	13	8.0	470	14	15	15	11	13	11	25
7	18	8.0	13	8.0	212	14	12	50	11	11	11	60
8	15	11	8.0	8.0	425	13	46	20	11	14	10	30
9	14	13	6.0	8.0	680	13	25	15	11	13	9.0	15
10	14	10	6.0	8.0	12	13	15	14	11	11	11	1200
11	18	10	6.0	8.0	11	12	10	14	12	11	13	181
12	11	9.0	9.0	8.0	11	12	52	13	12	10	11	30
13	8.0	10	13	7.0	11	12	419	13	12	10	11	15
14	8.0	7.0	13	7.0	11	12	25	12	12	11	11	15
15	8.0	8.0	11	6.0	11	12	30	12	12	14	17	15
16	9.0	7.0	11	6.0	10	11	15	12	13	14	13	13
17	9.0	7.0	10	6.0	9.0	11	13	11	13	15	11	13
18	9.0	7.0	10	6.0	8.0	11	12	11	13	14	11	13
19	9.0	7.0	10	6.0	8.0	11	12	11	13	14	10	12
20	9.0	6.0	10	5.0	8.0	11	12	11	13	15	13	12
21	8.0	8.0	10	5.0	10	10	12	10	12	15	13	11
22	8.0	9.0	10	6.0	10	10	11	10	12	17	13	11
23	8.0	9.0	10	6.0	11	10	11	10	12	15	13	11
24	8.0	8.0	10	5.0	11	10	11	10	12	15	11	10
25	9.0	8.0	10	9.0	12	10	11	10	12	15	8.0	9.0
26	9.0	8.0	10	9.0	12	9.0	10	9.0	11	13	9.0	10
27	9.0	19	10	8.0	11	9.0	10	9.0	11	10	11	10
28	9.0	10	9.0	11	11	9.0	10	9.0	11	9.0	13	11
29	8.0	10	9.0	11	10	9.0	10	9.0	10	10	11	11
30	14	9.0	9.0	5.0	---	9.0	10	9.0	10	10	9.0	11
31	21	---	9.0	10	---	9.0	---	9.0	---	11	9.0	---
TOTAL	388.0	291.0	294.0	235.0	2513.0	912.0	1188	393.0	343	395.0	344.0	1931.0
MEAN	12.5	9.70	9.48	7.58	86.7	29.4	39.6	12.7	11.4	12.7	11.1	64.4
MAX	21	19	13	11	680	377	419	50	13	17	17	1200
MIN	8.0	6.0	5.0	5.0	8.0	9.0	10	9.0	10	9.0	8.0	9.0
AC-FT	770	577	583	466	4980	1810	2360	780	680	783	682	3830
CAL YR 1975	TOTAL	13822.4	MEAN	37.9	MAX	564	MIN	5.0	AC-FT	27420		
WTR YR 1976	TOTAL	9227.0	MEAN	25.2	MAX	1200	MIN	5.0	AC-FT	18300		

SAN GABRIEL RIVER BASIN

11087020 SAN GABRIEL RIVER ABOVE WHITTIER NARROWS DAM, CA

LOCATION.--Lat 34°02'00", long 118°02'14", in La Puente Grant, Los Angeles County, on downstream side of bridge near center on Peck Road, 0.8 mi (1.3 km) downstream from San Jose flood channel, 1.2 mi (1.9 km) upstream from axis of Whittier Narrows Dam, and 1.8 mi (2.9 km) south of El Monte.

DRAINAGE AREA.--353 mi² (914 km²).

PERIOD OF RECORD.--October 1955 to September 1957, October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 220 ft (67 m), from topographic map.

REMARKS.--Records good. Flow regulated by San Gabriel, Cogswell, and Santa Fe flood-control reservoirs, combined capacity, 90,670 acre-ft (112 hm³), several small flood-control reservoirs, combined capacity, 19,100 acre-ft (23.6 hm³), and Morris Reservoir, capacity, 35,000 acre-ft (43.2 hm³). Many diversions above station for irrigation, power development, and ground-water replenishment. Colorado River water released to the San Gabriel River at a site 14.9 mi (24.0 km) upstream from gage, at Metropolitan Water District aqueduct crossing on San Dimas Creek for ground-water replenishment. No water was diverted by Los Angeles County Flood Control District from San Gabriel River below Santa Fe Dam to Rio Hondo during current year. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records of diversion to Rio Hondo were furnished by Los Angeles County Flood Control District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46,600 ft³/s (1,320 m³/s) Jan. 25, 1969, gage height, 10.90 ft (3.322 m); no flow for part of most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,880 ft³/s (138 m³/s) Sept. 10, gage height, 6.20 ft (1.890 m); minimum daily, 2.6 ft³/s (0.074 m³/s) Aug. 26.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	88	81	78	80	654	16	4.1	265	170	5.0	4.0
2	34	90	76	79	80	236	3.0	4.3	255	187	5.0	5.8
3	51	87	75	78	79	167	3.3	4.0	255	191	5.0	12
4	55	86	81	79	176	13	100	3.7	205	193	4.8	21
5	56	86	79	81	158	72	13	3.4	264	151	3.9	76
6	55	89	82	80	530	78	7.0	3.6	271	94	4.2	47
7	58	86	82	77	172	80	5.6	7.2	279	93	5.1	29
8	60	87	82	77	496	79	24	5.9	283	94	4.8	15
9	70	84	79	78	1070	80	8.6	4.1	284	95	4.5	9.2
10	68	83	80	78	35	108	5.0	5.5	342	96	5.4	1460
11	73	82	80	78	12	75	6.9	6.9	287	94	6.3	298
12	63	80	142	78	84	75	17	4.7	289	91	5.7	25
13	64	83	28	77	87	74	154	5.2	290	90	5.7	23
14	61	82	7.4	75	83	74	8.2	5.3	302	94	6.1	7.2
15	61	81	11	78	79	75	21	5.0	304	95	10	5.0
16	58	79	74	78	72	75	12	4.5	306	88	8.9	2.9
17	54	76	78	78	71	75	5.1	4.4	313	13	6.3	5.0
18	73	70	79	78	73	62	6.1	4.0	312	7.6	6.2	5.0
19	74	75	79	79	79	20	5.9	3.9	309	7.7	5.9	5.7
20	74	78	78	78	79	77	6.1	4.7	304	9.5	4.5	6.4
21	73	81	77	77	79	80	5.8	4.3	305	9.0	6.5	7.2
22	74	82	78	77	79	78	5.8	4.1	270	9.0	7.1	6.4
23	74	83	79	77	69	78	5.8	4.6	221	8.0	7.1	7.2
24	74	79	79	76	25	77	5.4	5.5	216	8.0	6.1	7.0
25	75	79	79	76	71	77	4.9	5.4	168	8.0	3.6	6.0
26	77	79	78	78	72	78	5.1	5.4	129	7.0	2.6	5.5
27	78	102	78	77	71	78	5.6	265	127	7.0	4.5	5.0
28	78	85	78	77	75	80	4.5	265	136	7.0	5.6	4.5
29	75	82	78	80	61	79	3.1	265	157	6.0	6.4	3.8
30	122	80	78	76	---	79	3.7	265	161	6.0	5.0	5.7
31	15	---	78	78	---	56	---	265	---	6.0	3.2	---
TOTAL	2013	2484	2313.4	2411	4197	3089	477.5	1448.7	7609	2034.8	171.0	2120.5
MEAN	64.9	82.8	74.6	77.8	145	99.6	15.9	46.7	254	65.6	5.52	70.7
MAX	122	102	142	81	1070	654	154	265	342	193	10	1460
MIN	15	70	7.4	75	12	13	3.0	3.4	127	6.0	2.6	2.9
AC-FT	3990	4930	4590	4780	8320	6130	947	2870	15090	4040	339	4210
CAL YR 1975	TOTAL	37979.13	MEAN	104	MAX	1090	MIN	.09	AC-FT	75330		
WTR YR 1976	TOTAL	30368.90	MEAN	83.0	MAX	1460	MIN	2.6	AC-FT	60240		

SAN GABRIEL RIVER BASIN

11087040 SAN GABRIEL RIVER AT WHITTIER NARROWS, CA

LOCATION.--Lat 34°01'25", long 118°03'11", in sec.5, T.2 S., R.11 W., Los Angeles County, 200 ft (60 m) from end of San Gabriel Boulevard (Siphon Road), upstream from Whittier Narrows Dam, and 2.5 mi (4.0 km) northeast of Montebello.

PERIOD OF RECORD.--Chemical analyses: Water year 1967 to current year.

REMARKS.--Records of discharge are given for San Gabriel River above Whittier Narrows Dam (station 11087020).

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT 29...	1130	79	520	8.5	18.5	2	17.7
NOV 21...	1045	79	510	8.1	11.0	5	11.6
DEC 19...	1015	79	430	8.0	9.0	4	11.9
JAN 29...	1010	83	480	8.1	9.5	3	12.1
FEB 25...	1020	71	420	7.8	11.0	4	11.4
MAR 29...	1000	83	440	8.5	14.0	2	13.8
APR 23...	1010	8.1	1200	8.4	17.0	2	8.6
MAY 21...	0900	5.0	1400	8.4	19.0	4	6.0
JUN 24...	0900	223	420	8.4	21.0	2	11.6

DATE	HARDNESS (CA, MG) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)
OCT 29...	133	47	55	283	.38	60.4
NOV 21...	133	50	48	265	.36	56.5
DEC 19...	127	49	48	261	.35	55.7
JAN 29...	138	55	51	297	.40	66.6
FEB 25...	130	54	46	251	.34	48.1
MAR 29...	139	61	49	287	.39	64.3
APR 23...	335	177	123	754	1.03	16.5
MAY 21...	355	223	182	874	1.19	11.8
JUN 24...	113	48	52	223	.30	134

SAN GABRIEL RIVER BASIN

11087500 SAN GABRIEL RIVER AT PICO, CA

LOCATION.--Lat 34°00'47", long 118°03'48", in Paso de Bartolo Grant, Los Angeles County, on right levee 460 ft (140 m) downstream from San Gabriel River Parkway, 4,200 ft (1,280 m) downstream from axis of Whittier Narrows Dam, and 1.4 mi (2.3 km) northeast of Pico Rivera.

DRAINAGE AREA.--447 mi² (1,158 km²).

PERIOD OF RECORD.--October 1928 to current year. Since 1954 Colorado River water released to San Gabriel River above station. Since 1954 records not equivalent.

GAGE.--Water-stage recorder. Datum of gage is 181.55 ft (55.336 m) above mean sea level. See WSP 1735 for history of changes prior to Mar. 6, 1952. Mar. 6, 1952, to Aug. 9, 1968, at bridge 0.5 mi (0.8 km) downstream at datum 9.05 ft (2.758 m) lower.

REMARKS.--Records poor. Flow regulated by Cogswell Reservoir since 1934 and San Gabriel flood-control reservoir since 1939, combined capacity, 46,087 acre-ft (56.8 hm³), Morris Reservoir since 1934, capacity, 35,000 acre-ft (43.2 hm³), Santa Fe flood-control reservoir since October 1942, capacity, 36,800 acre-ft (45.4 hm³), Whittier Narrows flood-control reservoir since January 1956, capacity, 36,160 acre-ft (44.6 hm³), and several small flood-control reservoirs, combined capacity, 19,100 acre-ft (23.6 hm³). Diversions for irrigation, power development, and ground-water replenishment. For Colorado River water released to San Gabriel River for ground-water replenishment see station 11087020. During the current year, no water was diverted from the San Gabriel River below Santa Fe Dam to Rio Hondo. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records were furnished by Los Angeles County Flood Control District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,700 ft³/s (643 m³/s) Mar. 2, 1938; no flow for periods in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, unknown; no flow many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	40	42	.50	.50	564	20	16	98	65		0
2	40	50	44	14	0	136	7.0	16	86	65		0
3	62	50	71	34	0	168	6.4	16	62	65		10
4	65	50	71	44	47	3.0	84	16	28	65		42
5	65	52	71	47	69	2.5	17	16	74	65		25
6	58	54	74	49	423	2.0	4.0	9.5	74	30		70
7	52	54	76	50	76	1.5	1.0	7.8	73	10		10
8	52	57	71	58	328	1.0	12	0	69	10		28
9	60	64	62	62	868	.50	1.0	0	74	30		0
10	58	67	64	62	17	33	.50	0	116	30		1500
11	60	67	67	62	1.0	19	.50	0	106	30		440
12	52	60	74	64	.90	22	3.4	0	102	30		80
13	57	60	23	62	.80	25	232	0	96	30		0
14	54	62	9.5	64	.70	25	1.0	0	96	30		0
15	34	64	11	64	1.5	24	4.4	0	86	30		0
16	55	64	62	65	16	26	18	0	73	30		0
17	25	65	62	65	19	29	16	0	78	28		0
18	4.0	65	62	65	25	24	16	0	76	0		0
19	2.0	62	65	65	34	1.0	17	0	76	0		0
20	25	64	65	62	34	30	17	0	76	0		0
21	60	37	65	1.0	38	36	14	0	74	0		0
22	60	1.0	67	.50	37	37	14	0	50	0		0
23	58	.50	69	12	22	36	15	0	20	0		0
24	58	.30	71	34	1.0	34	16	0	64	0		0
25	57	.10	71	38	1.0	34	15	0	120	0		0
26	58	15	71	38	1.0	34	16	0	125	0		0
27	57	43	73	37	60	36	17	64	125	0		0
28	42	46	73	37	62	37	16	94	95	0		0
29	17	46	49	42	33	37	16	100	55	0		0
30	39	43	1.5	23	---	37	16	104	55	0		0
31	10	---	1.0	1.0	---	36	---	106	---	0		---
TOTAL	1451.0	1402.90	1758.0	1322.00	2216.40	1530.50	633.20	565.3	2402	643	0	2205
MEAN	46.8	46.8	56.7	42.6	76.4	49.4	21.1	18.2	80.1	20.7	0	73.5
MAX	65	67	76	65	868	564	232	106	125	65	0	1500
MIN	2.0	.10	1.0	.50	0	.50	.50	0	20	0	0	0
AC-FT	2880	2780	3490	2620	4400	3040	1260	1120	4760	1280	0	4370
CAL YR 1975	TOTAL	18757.00	MEAN	51.4	MAX	926	MIN	.10	AC-FT	37200		
WTR YR 1976	TOTAL	16129.30	MEAN	44.1	MAX	1500	MIN	0	AC-FT	31990		

11088000 SAN GABRIEL RIVER AT SPRING STREET, NEAR LOS ALAMITOS, CA

LOCATION.--Lat 33°48'43", long 118°05'24", in SE¼SE¼NW¼ sec.24, T.4 S., R.12 W., Los Angeles County, on right levee 455 ft (139 m) upstream from Spring Street bridge, 1.3 mi (2.1 km) upstream from Coyote Creek, and 1.3 mi (2.1 km) northwest of Los Alamitos.

DRAINAGE AREA.--472 mi² (1,222 km²).

PERIOD OF RECORD.--October 1927 to September 1951, October 1952 to current year. Monthly discharge only for October 1927 to September 1936, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 11.87 ft (3.618 m) above mean sea level (levels by Los Angeles County Flood Control District). Prior to October 1952, at datum 4.82 ft (1.469 m) higher and from October 1952 to Nov. 17, 1964, at datum 0.38 ft (0.116 m) higher.

REMARKS.--Records poor. Regulation and diversions same as station 11087500. Additional diversion to percolation basin near Washington Boulevard and percolation basins in streambed. AVERAGE DISCHARGE represents flow to ocean during period of record regardless of upstream development. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records were furnished by Los Angeles County Flood Control District.

AVERAGE DISCHARGE.--48 years, 31.2 ft³/s (0.884 m³/s), 22,600 acre-ft/yr (27.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,000 ft³/s (765 m³/s), estimated, Mar. 2, 1938; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,890 ft³/s (110 m³/s) Sept. 10, gage height, 6.00 ft (1.829 m); minimum daily, 12 ft³/s (0.34 m³/s) Dec. 8.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	41	17	22	13	363	60	69	40	70	55	61
2	42	31	18	22	27	105	62	65	34	56	55	62
3	45	22	19	19	46	188	64	70	36	58	56	58
4	44	31	40	19	35	67	107	70	53	39	64	62
5	24	30	34	22	44	65	63	69	56	28	70	87
6	21	44	27	21	260	48	66	68	31	33	64	61
7	23	46	16	21	34	45	58	58	27	32	65	61
8	44	45	12	21	160	48	69	64	36	62	62	64
9	44	29	18	21	240	47	66	62	59	61	63	64
10	40	19	29	21	46	40	64	66	98	50	59	660
11	42	19	25	21	32	47	62	70	46	41	62	506
12	21	34	34	21	32	48	75	70	62	31	66	59
13	21	34	28	21	32	47	88	68	41	31	65	53
14	20	44	25	21	32	31	61	72	32	54	63	68
15	36	47	17	28	32	14	64	67	63	66	61	64
16	37	31	17	28	32	20	59	66	62	68	64	62
17	45	19	22	27	32	61	62	65	64	63	66	58
18	33	15	21	29	32	61	59	59	64	59	65	57
19	18	19	24	31	32	61	57	64	57	59	66	34
20	17	20	24	26	32	60	59	64	50	59	64	39
21	14	19	24	19	29	39	62	66	31	59	65	50
22	31	17	24	23	33	27	67	66	57	59	61	40
23	27	20	24	21	35	29	70	63	64	59	64	41
24	38	19	33	17	40	62	68	64	59	59	65	42
25	33	19	34	16	27	66	66	66	68	59	62	29
26	18	19	37	21	29	61	68	66	46	59	63	40
27	20	18	38	41	31	50	68	64	29	59	64	40
28	17	33	37	34	29	27	67	63	27	57	63	40
29	18	17	35	18	33	28	67	59	71	56	61	40
30	36	16	33	14	---	29	68	57	64	57	61	40
31	19	---	27	13	---	31	---	62	---	54	63	---
TOTAL	928	817	813	699	1511	1915	1996	2022	1527	1657	1947	2642
MEAN	29.9	27.2	26.2	22.5	52.1	61.8	66.5	65.2	50.9	53.5	62.8	88.1
MAX	45	47	40	41	260	363	107	72	98	70	70	660
MIN	14	15	12	13	13	14	57	57	27	28	55	29
AC-FT	1840	1620	1610	1390	3000	3800	3960	4010	3030	3290	3860	5240
CAL YR 1975	TOTAL	14256.8	MEAN	39.1	MAX	1060	MIN	9.8	AC-FT	28280		
WTR YR 1976	TOTAL	18474.0	MEAN	50.5	MAX	660	MIN	12	AC-FT	36640		

SAN GABRIEL RIVER BASIN

11088500 BREA CREEK BELOW BREA DAM, NEAR FULLERTON, CA

LOCATION.--Lat 33°53'16", long 117°55'32", in NE¼NE¼NE¼ sec.28, T.3 S., R.10 W., Orange County, on right bank 0.2 mi (0.3 km) downstream from Brea Dam, and 1 mi (2 km) north of Fullerton.

DRAINAGE AREA.--21.6 mi² (55.9 km²).

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

GAGE.--Water-stage recorder. V-notch sharp-crested weir since October 1946. Datum of gage is 196.67 ft (59.945 m) above mean sea level (levels by Corps of Engineers). Prior to Dec. 4, 1964, at datum 1.03 ft (0.314 m) higher.

REMARKS.--Records fair. Flow regulated by Brea flood-control reservoir, capacity, 4,100 acre-ft (506 hm³). No diversion above station. Since August 1966 low flow mostly the result of irrigation waste water from golf course 0.8 mi (1.3 km) upstream. See schematic diagram of San Gabriel and Los Angeles River basins.

AVERAGE DISCHARGE.--34 years, 1.24 ft³/s (0.035 m³/s), 898 acre-ft/yr (1.11 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 970 ft³/s (27.5 m³/s) Feb. 25, 1969, gage height, 6.30 ft (1.920 m), from rating curve extended above 340 ft³/s (9.63 m³/s); no flow for parts of some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 339 ft³/s (9.60 m³/s) Sept. 10, gage height, 4.54 ft (1.384 m), on basis of slope-area measurement of maximum flow; minimum daily, 0.08 ft³/s (0.002 m³/s) May 17 and 20.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.25	.30	.18	.18	.21	45	.22	.14	.09	.17	.17	.21
2	.18	.30	.18	.16	.22	4.6	.22	.15	.13	.18	.17	.22
3	.18	.18	.18	.17	.19	8.2	.34	.13	.12	.18	.15	.30
4	.22	.20	.18	.17	5.1	.53	4.8	.13	.13	.21	.16	.19
5	.20	.18	.21	.17	12	.29	1.5	.11	.09	.24	.19	11
6	.22	.18	.18	.48	31	.24	.19	.13	.11	.22	.17	2.3
7	.35	.17	.18	.21	14	.22	.19	.16	.13	.20	.17	.17
8	.16	.16	.22	.19	28	.21	.36	.09	.10	.15	.19	.15
9	.20	.17	.24	.17	63	.42	.24	.10	.13	.19	.19	.14
10	.21	.20	.18	.17	3.3	3.4	.18	.09	19	.19	.18	109
11	.41	.24	.18	.17	.50	.27	.17	.09	.11	.17	.18	32
12	.16	.21	.50	.18	.30	.22	13	.09	.15	.19	.18	.35
13	.18	.22	.36	.26	.25	.20	15	.09	.17	.17	.21	.16
14	.17	.28	.18	.18	.37	.20	.34	.11	.17	.22	.17	.15
15	.17	.19	.18	.30	.21	.20	.34	.11	.15	.21	.21	.17
16	.17	.21	.18	.22	.21	.19	.56	.09	.15	.21	.15	.16
17	.22	.24	.19	.23	.21	.19	.17	.08	.13	.17	.19	.15
18	.22	.19	.17	.18	.20	.21	.11	.09	.15	.16	.19	.14
19	.17	.18	.19	.16	.20	.20	.14	.10	.15	.40	.21	.15
20	.21	.17	.18	.17	.20	.20	.15	.08	.26	.21	.19	.17
21	.23	.21	.17	.18	.19	.20	.15	.16	.16	.21	.17	.17
22	.20	.16	.18	.19	.20	.19	.14	.11	.13	.24	.17	.16
23	.17	.18	.24	.20	.22	.24	.16	.10	.16	.15	.18	.19
24	.18	.19	.19	.20	.26	.27	.18	.11	.14	.17	.22	11
25	.24	.17	.17	.20	.21	.27	.17	.10	.16	.16	.23	1.7
26	.17	.17	.17	.20	.21	.22	.18	.13	.22	.21	.20	.22
27	.26	.32	.17	.20	.21	.24	.15	.10	.13	.16	.21	.21
28	.18	5.9	.17	.21	.24	.22	.14	.13	.21	.19	.17	.19
29	.19	.21	.17	.20	.21	.20	.15	.11	.21	.16	.17	.19
30	1.0	.18	.19	.20	---	.22	.18	.14	.21	.16	.21	.19
31	.73	---	.17	.21	---	.20	---	.09	---	.17	.21	---
TOTAL	7.80	11.86	6.23	6.31	161.62	67.66	39.82	3.44	23.35	6.02	5.76	171.50
MEAN	.25	.40	.20	.20	5.57	2.18	1.33	.11	.78	.19	.19	5.72
MAX	1.0	5.9	.50	.48	63	45	15	.16	.19	.40	.23	109
MIN	.16	.16	.17	.16	.19	.19	.11	.08	.09	.15	.15	.14
AC-FT	15	24	12	13	321	134	79	6.8	46	12	11	340
CAL YR 1975	TOTAL	428.73	MEAN	1.17	MAX	77	MIN	.12	AC-FT	850		
WTR YR 1976	TOTAL	511.37	MEAN	1.40	MAX	109	MIN	.08	AC-FT	1010		

SAN GABRIEL RIVER BASIN

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11089500 FULLERTON CREEK BELOW FULLERTON DAM, NEAR BREA, CA

LOCATION.--Lat 33°53'45", long 117°53'07", in NE¼NW¼SW¼ sec.24, T.3 S., R.10 W., Orange County, on left bank of outlet channel of Fullerton Dam, 1.6 mi (2.6 km) southeast of Brea.

DRAINAGE AREA.--4.94 mi² (12.79 km²).

PERIOD OF RECORD.--October 1941 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 250 ft (76 m), from topographic map. V-notch sharp-crested weir used Oct. 25, 1946, to Feb. 2, 1956. Prior to Dec. 3, 1971, at datum 3.00 ft (0.914 m) higher.

REMARKS.--Records fair. Flow regulated by Fullerton flood-control reservoir, capacity, 706 acre-ft (870,000 m³). Small tributary formerly entering below station diverted into reservoir since December 1954. See schematic diagram of San Gabriel and Los Angeles River basins.

AVERAGE DISCHARGE.--13 years (water years 1942-54), 0.19 ft³/s (0.005 m³/s), 135 acre-ft/yr (166,000 m³/yr); 22 years (water years 1955-76), 0.55 ft³/s (0.016 m³/s), 398 acre-ft/yr (491,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 313 ft³/s (8.86 m³/s) Jan. 25, 1969, gage height, 7.32 ft (2.231 m), present datum; no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 48 ft³/s (1.36 m³/s) Sept. 12, gage height, 4.34 ft (1.323 m); no flow some days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	0	.33	.04	1.1	7.1	.87	.03	.04	.30	.12	.07
2	.09	0	.23	0	.61	9.4	.56	.03	.04	.30	.11	.07
3	.08	.01	.07	.14	.20	7.0	.08	.03	.03	.30	.09	.07
4	0	.46	.08	.17	.40	1.2	.68	.03	.03	.24	.09	.08
5	.05	1.5	.05	0	3.9	.20	.13	.03	.03	.24	.09	1.5
6	.10	1.4	.12	0	3.7	.15	.06	.03	.03	.24	.09	7.4
7	.14	.62	.17	0	2.2	.13	.05	.03	.03	.24	.09	.16
8	.21	.30	.11	0	9.0	.12	.04	.03	.03	.24	.09	.15
9	.07	.18	.12	0	11	.26	.04	.03	.03	.24	.09	.17
10	.05	.24	.14	0	9.7	1.2	.04	.03	1.9	.24	.09	13
11	0	.01	.12	0	12	.70	.03	.03	.57	.24	.09	20
12	0	.11	.13	0	14	.46	.62	.03	.38	.24	.09	19
13	0	.14	.28	0	.30	.32	10	.03	.36	.24	.09	.12
14	0	.11	.19	0	.19	.18	2.0	.03	.30	.24	.09	.13
15	0	0	.05	0	.15	.12	.09	.04	.30	.24	.09	.07
16	0	.11	.14	0	.12	.09	.09	.04	.28	.19	.09	.06
17	0	.23	.08	0	.12	.08	.09	.04	.30	.19	.09	.04
18	0	.14	.05	0	.12	.07	.05	.04	.30	.18	.09	.03
19	0	.07	0	0	.12	.05	.04	.04	.30	.15	.09	.02
20	0	.14	.18	0	.12	.05	.04	.04	.30	.15	.09	.01
21	0	.12	.08	0	.07	.04	.04	.04	.30	.15	.09	.01
22	0	.11	.13	.01	.05	.04	.04	.04	.30	.15	.07	.02
23	0	.10	.12	0	.05	.04	.04	.04	.24	.15	.07	.02
24	0	.13	.02	.02	.05	.04	.04	.04	.24	.15	.07	.02
25	0	.17	0	.03	.07	.04	.04	.04	.24	.15	.07	.03
26	0	.11	0	.03	.09	.04	.04	.04	.24	.12	.07	.03
27	0	.13	.12	.02	.09	.03	.04	.04	.24	.12	.07	.03
28	.03	.63	.21	.02	.09	.03	.04	.04	.24	.09	.07	.02
29	.01	.73	.14	.03	.09	.08	.03	.04	.24	.09	.07	.02
30	.01	.22	.12	.03	---	.44	.03	.04	.29	.10	.07	.01
31	0	---	.14	.05	---	.68	---	.04	---	.12	.07	---
TOTAL	.87	8.22	3.72	.59	69.70	30.38	15.98	1.10	8.15	6.03	2.64	62.36
MEAN	.028	.27	.12	.019	2.40	.98	.53	.036	.27	.19	.085	2.08
MAX	.21	1.5	.33	.17	14	9.4	10	.04	1.9	.30	.12	20
MIN	0	0	0	0	.05	.03	.03	.03	.03	.09	.07	.01
AC-FT	1.7	16	7.4	1.2	138	60	32	2.2	16	12	5.2	124
CAL YR 1975	TOTAL	208.68	MEAN	.57	MAX	34	MIN	0	AC-FT	414		
WTR YR 1976	TOTAL	209.74	MEAN	.57	MAX	20	MIN	0	AC-FT	416		

SAN GABRIEL RIVER BASIN

11090200 FULLERTON CREEK AT RICHMAN AVENUE, AT FULLERTON, CA

LOCATION.--Lat 33°51'45", long 117°55'55", in NW¼SW¼SE¼ sec.33, T.3 S., R.10 W., Orange County, on right bank 125 ft (38 m) east of Richman Avenue, at Fullerton.

DRAINAGE AREA.--12.1 mi² (31.3 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 126.4 ft (38.53 m) above mean sea level (levels by Orange County Flood Control District).

REMARKS.--Flow regulated by Fullerton flood-control reservoir, capacity, 706 acre-ft (870,000 m³). No diversion above station. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records were published as furnished by Orange County Flood Control District.

AVERAGE DISCHARGE.--17 years, 2.03 ft³/s (0.058 m³/s), 1,470 acre-ft/yr (1.81 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,100 ft³/s (31.2 m³/s) Jan. 25, 1969, gage height, 4.78 ft (1.457 m); no flow many days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 782 ft³/s (22.1 m³/s) Apr. 12, gage height, 4.04 ft (1.231 m); no flow Aug. 3-20, 25-31, Sept. 2, 13-30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	.20	.20	.10	.60	97	2.6	.40	.30	.10	.30	.10
2	1.0	.10	1.0	.10	.60	33	2.1	.50	.30	.10	.20	0
3	1.4	.10	.50	.10	.40	17	.70	.30	.30	.10	0	.10
4	1.3	.10	.20	.10	12	3.3	12	.20	.40	.10	0	.10
5	1.0	1.3	.20	.20	19	.50	.50	.20	.50	.10	0	16
6	1.0	1.8	.20	.40	58	.20	.10	.10	.50	.10	0	14
7	1.7	1.0	.30	.40	36	.10	.10	1.7	.30	.10	0	.60
8	1.5	.50	.40	.20	50	.10	.50	.30	.30	.10	0	.40
9	1.4	.60	.40	.20	93	4.5	.30	.40	.40	.10	0	.10
10	.70	.40	.50	.20	16	3.8	.40	.60	24	.10	0	132
11	1.8	.40	.50	.20	13	1.0	.30	.70	1.3	.10	0	1.7
12	.70	.40	12	.20	14	.50	68	1.0	.20	.10	0	.10
13	.60	.20	.50	.20	.70	.50	19	.50	.10	.10	0	0
14	.70	.30	.60	.20	.20	.50	2.6	.60	.10	.10	0	0
15	.80	.30	.20	.20	.10	.50	2.1	.60	.10	.10	0	0
16	.80	.20	.30	.20	.10	.40	.50	.70	.10	.10	0	0
17	.70	.50	.30	.30	.10	.30	.30	.60	.10	.10	0	0
18	.80	.40	.20	.10	.10	.30	.20	.50	.10	.10	0	0
19	.60	.30	.20	.10	.10	.30	.60	.60	.10	.10	0	0
20	.60	.20	.10	.30	.20	.40	.50	.60	.10	.10	0	0
21	.60	.30	.40	.20	.20	.50	.40	.80	.10	.10	.10	0
22	.60	.30	.20	.10	.10	.50	.10	1.0	.10	.10	.10	0
23	.60	.20	.30	.10	.10	.30	.10	1.0	.10	.10	.10	0
24	.50	.30	.40	.10	.20	.20	.30	.60	.10	.10	.10	0
25	.50	.30	.20	.10	.20	.20	.50	.50	.10	.10	0	0
26	.50	.40	.20	.10	.20	.10	.10	.50	.10	.10	0	0
27	.60	.70	.20	.20	.20	.20	.50	.60	.10	.10	0	0
28	.70	7.0	.30	.20	.20	.30	.50	1.0	.10	.10	0	0
29	.80	.80	.20	.10	.10	.20	.60	.50	.10	.10	0	0
30	4.3	.50	.10	.10	---	.50	.60	.40	.10	.20	0	0
31	.50	---	.30	.10	---	1.5	---	.40	---	.30	0	---
TOTAL	30.30	20.10	21.60	5.40	315.70	168.70	117.10	18.40	30.60	3.40	.90	165.20
MEAN	.98	.67	.70	.17	10.9	5.44	3.90	.59	1.02	.11	.029	5.51
MAX	4.3	7.0	12	.40	93	97	68	1.7	24	.30	.30	132
MIN	.50	.10	.10	.10	.10	.10	.10	.10	.10	.10	0	0
AC-FT	60	40	43	11	626	335	232	36	61	6.7	1.8	328

CAL YR 1975 TOTAL 697.30 MEAN 1.91 MAX 114 MIN 0 AC-FT 1380
WTR YR 1976 TOTAL 897.40 MEAN 2.45 MAX 132 MIN 0 AC-FT 1780

11090700 COYOTE CREEK AT LOS ALAMITOS, CA

LOCATION.--Lat 33°48'38", long 118°04'28", in NW¼NE¼SW¼ sec.19, T.4 S., R.11 W., Orange County, on right bank about 250 ft (76 m) downstream from Spring Street, 0.5 mi (0.8 km) northwest of Los Alamitos.

DRAINAGE AREA.--150 mi² (388 km²).

PERIOD OF RECORD.--October 1963 to current year.

REVISED RECORDS.--WDR CA-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 7.37 ft (2.246 m) above mean sea level (levels by Los Angeles County Flood Control District).

REMARKS.--Records poor. Flows up to 100 ft³/s (2.83 m³/s) can be diverted from present Carbon Creek channel to Coyote Creek through the original Carbon Creek channel. Flow partially regulated by Carbon Canyon, Brea and Fullerton flood-control reservoirs, combined capacity, 11,840 acre-ft (14.6 hm³). AVERAGE DISCHARGE represents flow to ocean during period of record, regardless of upstream development. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records were furnished by Los Angeles County Flood Control District.

AVERAGE DISCHARGE.--13 years, 34.9 ft³/s (0.988 m³/s), 25,290 acre-ft/yr (31.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,300 ft³/s (405 m³/s) Dec. 4, 1974, gage height, 7.25 ft (2.210 m), from outside gage; no flow Jan. 25, Feb. 15-17, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,430 ft³/s (154 m³/s) Feb. 6, gage height, 4.50 ft (1.372 m), from floodmark; minimum daily, 2.3 ft³/s (0.065 m³/s) Feb. 16-18.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	3.1	3.1	3.7	5.2	889	4.6	8.7	4.3	8.7	6.1	7.4
2	4.0	3.4	3.1	3.4	5.2	188	4.9	17	4.0	8.1	4.6	6.1
3	3.4	3.7	3.1	3.7	4.3	286	11	11	4.0	11	3.4	5.5
4	4.0	4.0	3.7	4.3	4.6	8.1	260	25	4.0	10	4.6	6.8
5	4.3	4.0	3.7	5.2	4.2	5.2	16	19	4.3	16	5.5	7.1
6	7.4	4.3	3.7	7.4	183	5.2	4.0	10	4.6	8.1	6.8	6.0
7	4.6	4.0	4.3	11	266	4.9	3.1	10	4.3	10	7.4	4.9
8	2.5	4.0	3.4	8.7	542	4.9	11	6.1	4.3	12	5.5	3.7
9	3.4	3.4	3.7	9.4	1160	4.3	4.0	4.9	5.2	19	5.5	3.1
10	3.7	3.4	4.0	6.1	101	7.0	3.1	4.9	212	11	5.2	1500
11	15	2.8	5.2	5.5	31	4.3	3.1	3.7	16	9.4	4.9	269
12	4.3	3.1	8.4	8.1	36	3.7	7.7	3.7	4.6	11	6.1	25
13	2.8	3.4	19	6.1	35	3.7	34.7	5.5	4.0	11	6.1	5.2
14	3.1	3.4	7.4	4.3	3.1	4.3	4.6	6.1	4.0	11	5.2	4.3
15	3.4	3.7	4.9	4.3	3.1	4.3	9.4	6.1	5.5	7.4	6.1	3.7
16	4.0	3.4	4.6	4.6	2.3	3.7	4.6	5.5	5.2	6.1	7.4	3.7
17	3.4	3.4	4.3	4.9	2.3	4.3	2.8	7.4	7.4	4.9	4.3	3.1
18	3.1	3.4	4.3	5.2	2.3	4.3	3.1	4.6	6.1	4.9	4.0	4.3
19	3.7	3.1	4.3	4.0	2.5	4.0	4.9	4.6	5.5	4.0	4.9	3.4
20	3.4	3.1	4.3	3.1	3.1	4.3	4.6	4.6	5.2	4.3	5.5	3.4
21	3.4	3.4	3.7	2.8	3.1	4.6	3.4	4.9	6.1	4.6	5.2	3.4
22	3.1	3.4	4.0	4.0	3.1	5.5	2.5	4.9	4.9	4.6	4.3	3.1
23	3.4	3.4	4.6	6.1	3.1	4.9	3.7	5.2	5.2	5.2	5.2	3.4
24	2.8	5.5	5.5	5.5	3.1	4.6	3.4	4.6	5.5	4.6	4.9	103
25	2.8	3.4	4.0	4.9	4.9	4.6	4.3	4.0	8.7	5.5	4.3	7.4
26	3.7	3.7	3.1	4.9	8.7	3.4	3.4	4.3	6.1	5.5	4.3	3.4
27	3.4	6.8	4.0	4.6	12	3.4	8.1	4.0	7.4	4.9	4.0	3.4
28	3.4	103	4.0	4.6	17	3.1	11	4.9	6.8	6.1	4.0	3.7
29	3.7	4.3	4.0	4.3	25	3.4	12	5.5	6.8	5.2	3.4	4.3
30	66	2.8	4.6	4.6	---	4.0	11	4.6	10	5.5	5.2	3.7
31	5.5	---	4.6	4.6	---	3.4	---	4.9	---	4.3	8.7	---
TOTAL	188.7	209.8	224.2	163.9	2514.0	1551.4	845.6	220.2	382.0	243.9	162.6	2132.4
MEAN	6.09	6.99	7.23	5.29	86.7	50.0	28.2	7.10	12.7	7.87	5.25	71.1
MAX	66	103	84	11	1160	889	347	25	212	19	8.7	1500
MIN	2.5	2.8	3.1	2.8	2.3	3.1	2.5	3.7	4.0	4.0	3.4	3.1
AC-FT	374	416	445	325	4990	3080	1680	437	758	484	323	4230
CAL YR 1975	TOTAL	9403.4	MEAN 25.8	MAX 1600	MIN 2.3	AC-FT 18650						
WTR YR 1976	TOTAL	8838.7	MEAN 24.1	MAX 1500	MIN 2.3	AC-FT 17530						

11092450 LOS ANGELES RIVER AT SEPULVEDA DAM, CA

LOCATION.--Lat 34°09'42", long 118°27'57", in Ex Mission de San Fernando Grant, Los Angeles County, on right bank of outlet channel of Sepulveda Dam, 200 ft (61 m) upstream from Sepulveda Boulevard in city of Los Angeles, and 1.8 mi (2.9 km) southwest of Van Nuys.

DRAINAGE AREA.--158 mi² (409 km²).

PERIOD OF RECORD.--January 1929 to February 1938, May 1938 to current year. See WSP 1315-B, 1735 for history of records prior to September 1950.

GAGE.--Water-stage recorder. Datum of gage is 652.7 ft (198.94 m) above mean sea level. See WSP 1735 for history of changes prior to Aug. 29, 1953.

REMARKS.--Records fair. Flow regulated since December 1941 by Sepulveda flood-control reservoir, capacity, 17,400 acre-ft (21.5 hm³). Some diversion above station. At times, city of Los Angeles discharges imported Owens River water into Los Angeles River from upstream distributing reservoirs. During current year, no imported water was reported. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records of released water from reservoirs were furnished by city of Los Angeles.

AVERAGE DISCHARGE.--46 years (water years 1930-37, 1939-76), 30.8 ft³/s (0.872 m³/s), 22,310 acre-ft/yr (27.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,800 ft³/s (391 m³/s) Jan. 25, 1969, gage height, 11.42 ft (3.481 m); no flow Sept. 19, 20, 1930.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 2, 1938, estimated to be 12,000 ft³/s (340 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,740 ft³/s (163 m³/s) Feb. 9, gage height, 6.27 ft (1.911 m); minimum daily, 1.3 ft³/s (0.037 m³/s) Mar. 6.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	5.1	5.2	2.1	5.4	260	5.9	10	6.9	6.4	6.7	7.0
2	5.7	9.0	5.8	2.1	5.5	276	6.2	12	6.6	7.7	7.5	6.5
3	5.4	9.0	6.6	3.4	4.7	41	26	11	6.5	6.3	6.8	9.6
4	4.6	8.3	11	3.5	7.3	2.3	88	9.3	6.3	7.2	6.2	8.0
5	5.4	9.2	8.0	4.0	15	1.7	7.2	9.8	6.6	6.8	6.1	108
6	5.1	8.3	6.5	3.6	508	1.3	3.5	8.1	7.2	8.5	6.5	101
7	4.2	8.4	6.5	3.6	423	1.6	3.6	19	6.4	8.7	6.2	5.5
8	3.1	7.9	6.5	3.6	517	2.1	30	8.1	6.2	7.9	5.8	5.5
9	3.4	6.7	7.0	4.0	1500	1.8	4.8	8.8	6.0	9.1	5.5	7.0
10	3.4	8.6	8.0	5.7	174	8.7	4.0	8.3	66	8.8	5.5	1090
11	37	6.5	8.0	5.7	8.0	2.3	4.2	8.5	6.6	8.5	6.1	180
12	3.1	5.5	49	5.3	4.6	2.0	14	8.8	4.0	8.0	6.1	10
13	2.7	5.7	20	5.3	3.7	3.3	67	9.2	4.7	8.3	5.9	5.1
14	2.7	6.8	7.5	7.8	2.7	4.1	8.4	9.4	5.5	8.9	6.1	5.1
15	3.1	6.8	6.5	4.8	2.4	4.7	5.2	9.2	7.5	7.4	53	3.8
16	3.8	6.8	8.0	4.6	2.6	5.0	3.5	9.2	8.2	6.7	7.2	3.8
17	4.2	6.2	13	6.0	2.9	5.0	3.7	9.3	8.6	5.9	4.9	3.4
18	4.2	5.3	6.0	5.9	3.2	5.2	4.7	11	9.5	6.6	5.3	5.1
19	4.2	5.8	6.0	4.8	3.2	4.7	5.2	11	8.2	6.6	5.0	5.5
20	4.6	5.9	6.0	3.8	2.6	4.4	6.3	9.5	7.4	7.4	5.6	5.5
21	4.6	6.0	6.0	3.9	2.6	5.4	6.9	9.6	6.7	5.6	6.1	5.5
22	4.2	5.3	5.5	4.9	3.5	11	6.8	9.5	8.3	5.4	6.4	5.1
23	3.4	5.9	4.6	5.9	3.5	3.0	6.8	9.1	9.6	4.4	5.6	6.0
24	3.1	6.9	4.6	5.0	4.0	3.1	9.8	8.5	9.6	4.6	6.4	5.5
25	3.4	7.7	5.1	4.8	4.3	2.7	7.7	7.8	11	4.7	6.4	6.2
26	5.0	6.7	4.2	4.6	5.0	3.2	7.3	8.2	10	4.9	7.0	5.1
27	5.1	6.3	4.6	4.5	4.7	3.8	8.1	8.9	10	4.3	7.1	5.8
28	4.8	5.7	3.8	4.8	5.3	5.2	8.1	8.0	9.1	4.3	7.2	6.4
29	4.4	4.7	4.2	4.8	5.1	5.6	8.3	7.4	8.0	4.5	7.6	26
30	30	5.5	3.8	5.9	---	6.5	10	6.8	6.4	5.1	7.6	5.5
31	4.8	---	2.8	5.6	---	6.1	---	6.7	---	6.1	7.5	---
TOTAL	187.7	202.5	250.3	144.3	3233.8	692.8	381.2	290.0	283.6	205.6	242.9	1652.5
MEAN	6.05	6.75	8.07	4.65	112	22.3	12.7	9.35	9.45	6.63	7.84	55.1
MAX	37	9.2	49	7.8	1500	276	88	19	66	9.1	53	1090
MIN	2.7	4.7	2.8	2.1	2.4	1.3	3.5	6.7	4.0	4.3	4.9	3.4
AC-FT	372	402	496	286	6410	1370	756	575	563	408	482	3280
CAL YR 1975 TOTAL	11448.0			MEAN 31.4	MAX 1470	MIN 1.8	AC-FT 22710					
WTR YR 1976 TOTAL	7767.2			MEAN 21.2	MAX 1500	MIN 1.3	AC-FT 15410					

11093000 PACOIMA CREEK NEAR SAN FERNANDO, CA

LOCATION.--Lat 34°20'07", long 118°23'50", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.24, T.3 N., R.15 W., Los Angeles County, on right bank 500 ft (152 m) downstream from Pacoima Dam, 0.3 mi (0.5 km) upstream from mouth of canyon, and 4 mi (6 km) northeast of San Fernando.

DRAINAGE AREA.--28.3 mi² (73.3 km²).

PERIOD OF RECORD.--March to July 1916 (fragmentary), December 1916 to current year.

GAGE.--Water-stage recorder. Flume or weir control since June 1937. Altitude of gage is 1,650 ft (503 m), from topographic map. See WSP 1735 for history of changes prior to Feb. 1, 1935.

REMARKS.--Records poor. Flow regulated by Pacoima flood-control reservoir since February 1929, capacity, 3,841 acre-ft (4.74 hm³). Flow passing over Pacoima Dam spillway enters creek below station. No diversion above station. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records were furnished by Los Angeles County Flood Control District.

AVERAGE DISCHARGE.--59 years (water years 1918-76), 9.24 ft³/s (0.262 m³/s), 6,690 acre-ft/yr (8.25 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,440 ft³/s (69.1 m³/s) Mar. 3, 1938; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 66 ft³/s (1.87 m³/s) June 15, gage height, 0.84 ft (0.256 m); minimum daily, 0.10 ft³/s (0.003 m³/s) many days in November, December and January.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.70	.20	.20	.30	.40	.50	10	1.0	1.0	1.2	.70	.90
2	.70	.20	.20	.30	.40	.60	5.5	1.0	1.0	1.2	.70	.30
3	.70	.20	.20	.30	.40	.60	.50	1.0	1.0	1.2	.70	.50
4	.70	.20	.20	.30	.40	.60	.50	1.0	1.0	1.2	.70	1.0
5	.70	.20	.10	.30	.40	6.6	2.6	1.0	1.0	1.2	.70	.40
6	.70	.20	.10	.30	.50	8.9	4.5	1.0	1.0	.90	.70	.30
7	12	.10	.10	.30	.50	6.1	4.6	1.0	1.0	.70	.70	.40
8	13	.10	.10	.30	.50	8.8	4.7	1.0	1.0	.70	.70	.40
9	.20	.10	.20	.30	.50	14	4.8	1.0	1.0	.70	.70	.40
10	.20	.10	.30	.20	.50	12	4.9	1.0	1.0	.70	.70	2.4
11	.20	.10	.30	.20	.50	12	5.0	1.0	1.0	.70	.70	10
12	.20	.10	.40	.20	.50	12	6.7	1.0	1.0	.70	.70	4.6
13	.20	.10	.40	.10	.50	12	11	1.0	1.0	.70	.70	2.4
14	.20	.10	.30	.10	.50	12	12	1.0	1.0	.70	.70	2.1
15	.20	.10	.30	.10	.50	12	12	1.0	33	.70	.70	1.9
16	.20	.10	.30	.10	.50	12	10	1.0	64	.70	20	1.6
17	.20	.10	.30	.10	.50	12	7.2	1.0	59	.70	34	1.4
18	.20	.10	.30	.10	.50	12	7.2	1.0	38	.70	9.2	1.1
19	.20	.10	.30	.10	.50	8.2	7.2	1.0	4.2	.70	.70	.90
20	.20	.10	.30	.10	.50	.50	7.2	1.0	1.1	.70	.70	.90
21	.20	.10	.30	.10	.50	.50	3.9	1.0	1.4	.70	.70	.80
22	.20	.10	.30	.20	.50	.50	.50	1.0	1.9	.70	.70	.70
23	.20	.10	.30	.20	.50	.50	.50	1.0	1.9	.70	.80	.70
24	.20	.10	.30	.20	.50	.50	.50	1.0	1.9	.70	.80	.70
25	.20	.10	.30	.20	.50	.50	.90	1.0	1.4	.70	.80	.70
26	.20	.10	.30	.20	.50	.50	.90	1.0	1.4	.70	.80	.70
27	.20	.10	.30	.20	.50	.50	.90	1.0	1.4	.70	.80	.70
28	.20	.20	.30	.30	.50	.50	.90	1.0	1.4	.70	2.3	.70
29	.20	.20	.30	.40	.50	6.5	.90	1.0	1.4	.70	.80	.70
30	.20	.20	.30	.40	---	10	.90	1.0	1.4	.70	.80	.70
31	.20	---	.30	.40	---	10	---	1.0	---	.70	.90	---
TOTAL	33.80	3.90	8.20	6.90	14.00	193.90	138.90	31.0	228.8	24.40	85.30	41.00
MEAN	1.09	.13	.26	.22	.48	6.25	4.63	1.00	7.63	.79	2.75	1.37
MAX	13	.20	.40	.40	.50	14	12	1.0	64	1.2	34	10
MIN	.20	.10	.10	.10	.40	.50	.50	1.0	1.0	.70	.70	.30
AC-FT	67	7.7	16	14	28	385	276	61	454	48	169	81
CAL YR 1975 TOTAL	1277.00			MEAN 3.50	MAX 83	MIN .10	AC-FT 2530					
WTR YR 1976 TOTAL	810.10			MEAN 2.21	MAX 64	MIN .10	AC-FT 1610					

11095500 BIG TUJUNGA CREEK NEAR SUNLAND, CA

LOCATION.--Lat 34°18'02", long 118°16'04", in SW¼NW¼SW¼ sec.32, T.3 N., R.13 W., Los Angeles County, on left bank 1,000 ft (305 m) upstream from Gold Canyon, 2 mi (3 km) upstream from mouth of canyon, and 4 mi (6 km) north-east of Sunland.

DRAINAGE AREA.--106 mi² (275 km²).

PERIOD OF RECORD.--October 1916 to current year. Prior to October 1974, published as Tujunga Creek near Sunland.

GAGE.--Water-stage recorder. Datum of gage is 1,571.80 ft (479.085 m) above mean sea level (levels by Los Angeles County Flood Control District). Prior to Oct. 1, 1932, at site 1,000 ft (305 m) upstream at different datum.

REMARKS.--Records poor. Flow regulated since July 1931 by Big Tujunga flood-control reservoir, capacity, 3,819 acre-ft (4.71 hm³). Several small diversions above station for irrigation. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records were furnished by Los Angeles County Flood Control District.

AVERAGE DISCHARGE.--59 years (water years 1918-76), 28.3 ft³/s (0.801 m³/s), 20,500 acre-ft/yr (25.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50,000 ft³/s (1,420 m³/s), estimated, Mar. 2, 1938; minimum, 0.10 ft³/s (0.003 m³/s) at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 378 ft³/s (10.7 m³/s) Feb. 9, gage height, 8.52 ft (2.597 m); minimum daily, 0.90 ft³/s (0.025 m³/s) Dec. 30 to Jan. 5, Jan. 8-18, 26, 27.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	1.4	1.7	.90	1.0	47	16	18	2.8	1.2	1.8	1.7
2	1.9	1.4	1.7	.90	1.0	22	21	18	1.9	1.4	1.8	1.7
3	1.6	1.4	1.6	.90	1.1	17	21	6.3	1.9	1.5	2.4	4.9
4	1.8	1.4	1.6	.90	1.2	9.8	20	3.4	2.0	1.6	1.9	7.2
5	2.4	1.4	1.6	.90	9.9	2.6	19	2.1	2.2	1.6	1.8	5.6
6	1.8	1.4	1.5	1.0	52	2.2	19	2.2	2.7	1.7	1.7	3.0
7	1.8	1.4	1.5	1.0	11	2.1	19	4.6	3.0	1.8	1.6	2.5
8	1.8	1.4	1.4	.90	18	2.9	19	4.0	3.0	1.9	1.6	2.2
9	1.8	1.4	1.4	.90	106	4.0	21	3.0	3.5	1.8	1.5	2.2
10	1.8	1.4	1.4	.90	40	9.8	21	6.1	5.6	1.8	1.8	36
11	1.8	1.4	1.4	.90	2.3	11	21	18	5.6	1.8	1.4	151
12	1.8	1.4	1.4	.90	2.1	12	21	18	3.0	1.8	1.3	73
13	1.7	1.4	1.3	.90	1.4	13	21	17	2.9	1.8	1.4	22
14	1.7	1.4	1.3	.90	1.1	16	22	20	2.7	1.8	1.6	15
15	1.7	1.4	1.2	.90	1.2	17	21	19	2.6	1.8	1.9	16
16	1.7	1.5	1.2	.90	1.4	17	16	17	2.7	1.8	2.1	18
17	1.7	1.5	1.2	.90	9.9	19	24	16	2.5	1.8	2.0	22
18	1.6	1.5	1.2	.90	40	15	37	11	1.9	1.8	1.9	24
19	1.6	1.5	1.1	1.0	29	7.2	25	2.1	1.6	1.8	1.9	25
20	1.6	1.5	1.0	1.0	30	6.1	29	2.2	1.4	1.8	1.8	30
21	1.6	1.4	1.0	1.0	36	7.2	39	2.2	1.3	1.8	1.8	25
22	1.6	1.5	1.0	1.0	34	7.2	19	2.1	1.3	1.8	1.7	20
23	1.5	1.5	1.0	1.0	30	7.7	22	2.0	1.2	1.8	1.6	17
24	1.5	1.5	1.0	1.0	31	5.6	27	2.9	1.2	1.8	1.5	20
25	1.5	1.6	1.0	1.0	30	9.8	28	7.7	1.2	1.8	1.4	23
26	1.5	1.6	1.0	.90	50	14	28	5.6	1.2	1.8	1.4	27
27	1.5	1.6	1.0	.90	87	14	29	3.0	1.1	1.8	1.4	31
28	1.5	1.7	1.0	1.0	76	14	14	3.5	1.1	1.8	1.3	19
29	1.4	1.7	1.0	1.0	24	15	14	4.0	1.1	1.8	1.2	2.6
30	1.4	1.7	.90	1.0	---	25	16	3.5	1.1	1.8	1.2	2.1
31	1.4	---	.90	1.0	---	22	---	4.0	---	1.8	1.1	---
TOTAL	62.0	44.3	38.50	29.20	757.6	394.2	669	248.5	67.3	54.1	50.8	649.7
MEAN	2.00	1.48	1.24	.94	26.1	12.7	22.3	8.02	2.24	1.75	1.64	21.7
MAX	12	1.7	1.7	1.0	106	47	39	20	5.6	1.9	2.4	151
MIN	1.4	1.4	.90	.90	1.0	2.1	14	2.0	1.1	1.2	1.1	1.7
AC-FT	123	88	76	58	1500	782	1330	493	133	107	101	1290
CAL YR 1975	TOTAL	3621.30	MEAN	9.92	MAX	94	MIN	.90	AC-FT	7180		
WTR YR 1976	TOTAL	3065.20	MEAN	8.37	MAX	151	MIN	.90	AC-FT	6080		

11097000 BIG TUJUNGA CREEK BELOW HANSEN DAM, CA
(Formerly published as Tujunga Creek below Hansen Dam)

LOCATION.--Lat 34°15'13", long 118°23'17", in Ex Mission San Fernando Grant, Los Angeles County, in city of Los Angeles, on left bank of outlet channel of Hansen Dam, 0.1 mi (0.2 km) upstream from Glen Oaks Boulevard, and 3 mi (5 km) southeast of San Fernando.

DRAINAGE AREA.--153 mi² (396 km²).

PERIOD OF RECORD.--May 1932 to February 1938, August 1940 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 943.32 ft (287.524 m) above mean sea level (Corps of Engineers bench mark). See WSP 1735 for history of changes prior to Oct. 1, 1953.

REMARKS.--Records poor. Flow regulated since July 1931 by Big Tujunga flood-control reservoir, capacity, 4,240 acre-ft (5.23 hm³) and since September 1940 by Hansen flood-control reservoir, capacity, 29,700 acre-ft (36.6 hm³). Several small diversions for domestic use and irrigation. Water reported herein is that which passed Hansen Dam. Los Angeles County Flood Control District diverts 0.3 mi (0.5 km) upstream from gage to spreading grounds. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records of diversion were furnished by Los Angeles County Flood Control District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,700 ft³/s (331 m³/s) Feb. 25, 1969, gage height, 7.36 ft (2.243 m), from rating curve extended above 5,000 ft³/s (142 m³/s) on basis of gate openings at dam; no flow for all or parts of each year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 54,000 ft³/s (1,530 m³/s), estimated, Mar. 2, 1938.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 31 ft³/s (0.88 m³/s) Mar. 11, gage height, 1.15 ft (0.351 m); no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0		0		0	.67	0					0
2	0		0		0	.67	0					0
3	0		0		0	0	.06					0
4	0		0		0	0	.05					0
5	0		0		0	0	0					.07
6	0		0		.38	0	0					0
7	0		0		.50	0	0					0
8	0		0		1.1	.16	.02					0
9	0		0		1.9	0	0					0
10	0		0		.06	0	0					1.1
11	.11		0		0	.53	0					.52
12	0		.35		0	0	.11					0
13	0		0		0	0	.16					0
14	0		0		0	0	0					0
15	0		0		0	0	0					0
16	0		0		0	0	0					0
17	0		0		0	0	0					0
18	0		0		0	0	0					0
19	0		0		.89	0	0					0
20	0		0		.92	0	0					0
21	0		0		.35	0	0					0
22	0		0		.10	0	0					0
23	0		0		.51	0	0					0
24	0		0		0	0	0					0
25	0		0		0	0	0					0
26	0		0		0	0	0					0
27	0		0		0	0	.02					0
28	0		0		0	0	0					0
29	0		0		0	0	.30					0
30	.04		0		---	0	0					0
31	0	---	0		---	0	---		---			---
TOTAL	.15	0	.35	0	6.71	2.03	.72	0	0	0	0	1.69
MEAN	.005	0	.011	0	.23	.066	.024	0	0	0	0	.056
MAX	.11	0	.35	0	1.9	.67	.30	0	0	0	0	1.1
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	.3	0	.7	0	13	4.0	1.4	0	0	0	0	3.4
(a)	1,360	1,470	1,800	878	13	4.0	1.4	0	0	0	0	3.4
CAL YR 1975	TOTAL 13.30	MEAN .036	MAX 2.5	MIN 0	AC-FT 26	AC-FT a 8,360						
WTR YR 1976	TOTAL 11.65	MEAN .032	MAX 1.9	MIN 0	AC-FT 23	AC-FT a 5,530						

a Combined discharge, in acre-feet, of creek and diversion.

LOS ANGELES RIVER BASIN

11097490 LOS ANGELES RIVER AT FELIZ BOULEVARD, AT LOS ANGELES, CA

LOCATION.--Lat 34°07'18", Long 118°16'10", Los Angeles County, on bridge at Feliz Boulevard in Los Angeles.

PERIOD OF RECORD.--Chemical analyses: November 1973 to current year.

COOPERATION.--Records were furnished by California Department of Water Resources.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA, MG) (MG/L)	
OCT											
06...	0635	1160	19.0	1.9	40	3.0	1000	230	300	350	
NOV											
06...	0530	1010	16.0	3.6	56	21	--	115	700	270	
DEC											
05...	0520	1180	13.0	3.3	24	9.0	9000	460	1300	389	
JAN											
06...	0540	1340	6.0	8.0	32	4.0	34000	240	1200	413	
FEB											
03...	0530	1000	10.0	5.9	33	6.0	1200	80	800	243	
05...	0730	158	11.0	--	--	25	15800	3200	163000	--	
06...	1000	187	11.0	--	--	14	--	--	--	--	
08...	1000	108	11.0	--	--	10	--	--	--	--	
MAR											
01...	1230	193	14.0	--	--	15	--	--	--	--	
02...	0740	604	7.0	--	--	6.0	--	--	--	--	
APR											
01...	0440	965	13.0	6.0	57	8.0	14000	900	3500	251	
05...	0630	586	14.5	--	--	20	--	--	--	--	
MAY											
07...	0540	681	15.5	6.0	175	39	14400	4200	<50800	184	
JUN											
07...	0545	965	15.5	4.7	38	5.0	3600	420	700	244	
JUL											
07...	0809	1020	19.5	2.9	54	7.0	3000	330	1500	260	
AUG											
05...	0530	949	20.0	1.2	36	4.0	4500	20	400	283	
SEP											
03...	0550	1040	21.5	1.6	62	4.0	3800	170	300	301	
DATE		NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HC03) (MG/L)	CAR- BONATE (C03) (MG/L)	ALKA- LILITY AS CAC03 (MG/L)
OCT											
06...		190	88	32	103	38	2.4	10	193	0	158
NOV											
06...		170	76	20	107	45	2.8	10	121	0	99
DEC											
05...		210	106	30	106	36	2.3	11	214	0	176
JAN											
06...		270	114	32	120	38	2.6	8.3	174	0	143
FEB											
03...		99	71	16	96	44	2.7	17	175	0	144
05...		--	--	--	--	--	--	--	--	--	--
06...		--	--	--	--	--	--	--	--	--	--
08...		--	--	--	--	--	--	--	--	--	--
MAR											
01...		--	--	--	--	--	--	--	--	--	--
02...		--	--	--	--	--	--	--	--	--	--
APR											
01...		91	76	15	94	44	2.6	11	195	0	160
05...		--	--	--	--	--	--	--	--	--	--
MAY											
07...		100	53	12	58	40	1.9	7.9	101	0	83
JUN											
07...		51	80	11	94	44	2.6	11	235	0	193
JUL											
07...		51	71	20	93	43	2.5	11	255	0	209
AUG											
05...		120	73	24	84	38	2.2	10	205	0	168
SEP											
03...		89	76	27	94	39	2.4	11	258	0	212

11097490 LOS ANGELES RIVER AT FELIZ BOULEVARD, AT LOS ANGELES, CA--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	VOL. NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	CYANIDE (CN) (MG/L)	OIL AND GREASE (MG/L)
OCT									
06...	269	96	--	--	5.5	.42	4.0	--	--
NOV									
06...	237	104	--	--	2.8	.92	.95	--	--
DEC									
05...	254	103	--	--	7.9	.53	3.2	--	--
JAN									
06...	320	136	--	--	4.6	.21	2.2	--	--
FEB									
03...	141	92	--	--	11	.00	6.5	--	--
05...	--	--	530	110	--	--	--	.00	4
06...	--	--	424	76	--	--	--	.00	--
08...	--	--	106	18	--	--	--	.00	--
MAR									
01...	--	--	656	116	--	--	--	.00	4
02...	--	--	122	30	--	--	--	.00	--
APR									
01...	143	106	--	--	10	1.4	6.0	--	--
05...	--	--	16	8	--	--	--	.00	--
MAY									
07...	107	68	--	--	2.9	1.6	.82	--	--
JUN									
07...	137	108	--	--	4.4	6.5	5.7	--	--
JUL									
07...	158	100	--	--	6.2	6.4	6.0	--	--
AUG									
05...	170	99	--	--	4.8	.34	3.3	--	--
SEP									
03...	187	92	--	--	.82	.00	3.8	--	--

LOS ANGELES RIVER BASIN

11097500 LOS ANGELES RIVER AT LOS ANGELES, CA

LOCATION.--Lat 34°04'52", long 118°13'36", landline location not available, Los Angeles County, on right bank near Figueroa Street, Los Angeles, and 800 ft (244 m) upstream from Arroyo Seco.

DRAINAGE AREA.--514 mi² (1,331 km²).

PERIOD OF RECORD.--October 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is 292.58 ft (89.178 m) above mean sea level (levels by Los Angeles County Flood Control District). See WSP 1315-B for history of changes prior to Dec. 8, 1939.

REMARKS.--Records fair. Flow regulated since September 1940 by Hansen flood-control reservoir and since December 1941 by Sepulveda flood-control reservoir, combined capacity, 49,400 acre-ft (60.9 hm³) and several small flood-control reservoirs. At times city of Los Angeles discharges imported Owens River water into Los Angeles River from upstream distributing reservoirs. Excess treated sewage effluent from Los Angeles Bureau of Sanitation is released to channel about 8 mi (13 km) upstream. Many diversions above station for domestic use and irrigation. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records furnished by Los Angeles County Flood Control District.

AVERAGE DISCHARGE.--47 years, 73.7 ft³/s (2.087 m³/s), 53,400 acre-ft/yr (65.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 67,000 ft³/s (1,900 m³/s) Mar. 2, 1938; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,900 ft³/s (394 m³/s) Feb. 9, gage height, 5.89 ft (1.795 m); minimum daily, 2.7 ft³/s (0.076 m³/s) June 13.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	8.3	7.8	7.4	12	639	6.4	11	12	9.2	5.1	12
2	16	7.8	8.7	6.4	12	682	6.0	9.2	6.9	12	4.0	9.8
3	15	11	9.2	6.4	11	144	10	7.4	5.5	8.7	4.3	15
4	13	14	9.2	8.3	91	23	337	5.1	8.3	8.7	3.3	15
5	11	8.3	12	8.3	836	13	31	4.6	5.1	8.7	4.0	483
6	14	8.3	12	17	1830	13	8.7	4.3	6.0	11	4.0	566
7	18	8.3	9.2	6.0	742	12	8.7	65	8.3	11	3.3	22
8	18	8.7	11	5.1	1480	4.6	63	11	4.6	8.7	3.3	21
9	16	8.7	6.9	5.1	3230	25	24	13	4.3	8.7	4.0	21
10	14	7.8	9.2	4.6	420	78	7.4	7.8	61	8.7	5.1	2750
11	110	8.3	7.8	5.5	34	18	7.4	11	44	7.4	4.6	814
12	21	8.3	216	4.3	18	14	26	9.2	8.3	6.9	5.5	64
13	9.2	7.8	91	5.5	18	9.8	247	9.2	2.7	7.8	6.4	22
14	12	8.7	14	6.4	9.8	8.7	51	13	6.0	7.4	5.5	14
15	13	8.7	12	8.7	8.7	9.2	23	9.2	5.5	6.4	103	25
16	17	8.7	7.4	6.9	7.8	9.8	18	11	11	6.0	57	21
17	18	9.2	7.4	12	9.8	8.7	11	9.8	15	6.4	14	15
18	18	11	8.3	11	11	8.3	16	11	13	4.6	11	7.4
19	17	8.3	7.4	7.4	13	8.3	11	12	9.8	5.5	6.4	11
20	18	9.2	7.8	9.2	8.7	7.8	9.8	7.4	9.2	6.0	5.5	11
21	16	11	7.4	6.9	9.2	6.9	12	9.8	11	5.1	3.0	11
22	12	7.8	6.4	7.8	9.8	9.2	21	12	12	5.1	3.0	11
23	8.7	7.8	8.3	11	9.8	17	23	18	14	7.4	3.3	12
24	7.4	7.8	7.8	9.2	9.8	11	16	26	17	6.9	3.6	43
25	11	9.8	6.4	9.8	9.8	7.8	23	25	16	5.5	4.3	31
26	14	18	5.5	12	9.8	6.4	22	25	11	6.4	6.0	11
27	17	16	7.8	12	9.8	7.4	24	23	13	8.3	8.3	7.4
28	8.3	14	11	13	9.8	6.4	18	19	14	6.0	6.9	8.3
29	8.7	9.8	14	11	9.8	6.4	12	14	11	6.0	6.9	65
30	22	6.4	18	13	---	7.4	14	12	11	7.4	6.4	23
31	43	---	11	13	---	6.0	---	12	---	4.6	9.8	---
TOTAL	571.3	287.8	577.9	270.2	8890.4	1828.1	1107.4	437.0	376.5	228.5	320.8	5141.9
MEAN	18.4	9.59	18.6	8.72	307	59.0	36.9	14.1	12.6	7.37	10.3	171
MAX	110	18	216	17	3230	682	337	65	61	12	103	2750
MIN	7.4	6.4	5.5	4.3	7.8	4.6	6.0	4.3	2.7	4.6	3.0	7.4
AC-FT	1130	571	1150	536	17630	3630	2200	867	747	453	636	10200
CAL YR 1975 TOTAL	23726.4		MEAN 65.0	MAX 4210	MIN 4.2	AC-FT 47060						
WTR YR 1976 TOTAL	20037.8		MEAN 54.7	MAX 3230	MIN 2.7	AC-FT 39740						

11098000 ARROYO SECO NEAR PASADENA, CA

LOCATION.--Lat 34°13'20", long 118°10'36", in NW¼NW¼NE¼ sec.31, T.2 N., R.12 W., Los Angeles County, on right bank, 0.7 mi (1.1 km) east of Angeles Crest Highway, 1.5 mi (2.4 km) upstream from Millard Canyon, and 5.5 mi (8.8 km) northwest of Pasadena.

DRAINAGE AREA.--16.0 mi² (41.4 km²).

PERIOD OF RECORD.--December 1910 to current year.

GAGE.--Water-stage recorder. Broad-crested weir since November 1938. Datum of gage is 1,397.88 ft (426.074 m) above mean sea level. Prior to Oct. 1, 1916, nonrecording gage at different datum. Oct. 1, 1916, to Oct. 19, 1945, water-stage recorder at datum 4.00 ft (1.219 m) lower.

REMARKS.--Records good. Minor regulation by debris dam 1.5 mi (2.4 km) upstream. No diversion above station. See schematic diagram of San Gabriel and Los Angeles River basins.

AVERAGE DISCHARGE.--62 years (water years 1914-15, 1917-76), 9.24 ft³/s (0.262 m³/s), 6,690 acre-ft/yr (8.25 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,620 ft³/s (244 m³/s) Mar. 2, 1938, gage height, 9.42 ft (2.871 m), present datum, on basis of slope-area measurement of maximum flow; no flow at times in some 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)	
Feb. 9	0530	*590	16.7	3.64	1.109						
Mar. 1	0915	231	6.54	2.89	0.881	Sept. 10	2145	518	14.7	3.51	1.070

Minimum daily discharge, 0.17 ft³/s (0.005 m³/s) Aug. 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.37	.70	.87	.86	.72	83	2.5	1.8	1.1	.48	.31	.25
2	.30	.65	.87	.90	.78	29	2.5	1.7	.97	.50	.38	.24
3	.24	.65	.89	.93	.80	23	2.3	1.9	.95	.49	.33	.29
4	.24	.65	.90	.93	1.0	12	2.1	2.0	.96	.45	.30	.26
5	.30	.69	.90	.97	3.4	10	1.7	2.2	.87	.39	.27	.49
6	.37	.78	.90	1.0	36	9.0	1.7	2.5	.82	.35	.26	.56
7	.44	.76	.89	1.0	9.9	7.9	2.1	3.5	.86	.30	.24	.34
8	.37	.73	.87	1.0	30	7.0	2.3	2.5	.85	.29	.23	.28
9	.44	.72	.88	1.0	193	6.4	2.2	2.2	.98	.32	.24	.35
10	.44	.74	.90	1.0	47	6.6	2.1	1.9	1.5	.35	.24	58
11	.61	.72	.95	1.1	14	5.8	2.1	1.8	1.6	.35	.21	143
12	.52	.65	1.3	1.0	8.7	5.2	2.3	1.5	1.4	.35	.19	8.3
13	.44	.68	.90	1.0	6.2	4.5	16	1.3	1.2	.37	.24	4.1
14	.37	.71	.91	.96	5.1	4.2	6.4	1.2	1.0	.35	.32	3.0
15	.37	.74	1.0	.96	4.0	3.9	5.4	1.2	.88	.40	.59	3.1
16	.37	.78	.96	.91	3.3	3.6	5.2	1.3	.85	.37	.50	2.7
17	.37	.80	.91	.90	2.9	3.4	4.2	1.3	.84	.36	.42	2.1
18	.44	.81	.89	.84	2.7	3.3	3.8	1.1	.76	.34	.37	1.9
19	.61	.78	.87	.73	2.6	3.2	3.6	1.1	.69	.32	.34	1.7
20	.61	.78	.85	.70	2.4	3.2	2.9	1.1	.65	.30	.33	1.6
21	.61	.79	.80	.70	2.4	3.1	2.3	1.2	.61	.28	.31	1.6
22	.61	.78	.86	.70	2.4	2.9	2.7	1.3	.61	.36	.29	1.6
23	.52	.77	.81	.77	2.4	3.0	2.8	1.2	.53	.30	.26	1.6
24	.52	.72	.73	.85	2.5	3.2	2.6	1.2	.47	.23	.23	1.7
25	.52	.76	.77	.80	2.5	3.1	2.4	1.3	.48	.24	.23	1.7
26	.61	.77	.76	.74	2.4	2.9	2.2	1.2	.46	.29	.23	1.3
27	.70	.87	.71	.71	2.3	2.8	2.4	1.1	.44	.25	.23	1.4
28	.57	.90	.71	.73	2.2	2.8	2.5	1.1	.43	.24	.22	1.5
29	.57	.87	.70	.73	2.2	2.7	2.3	1.2	.44	.25	.20	1.4
30	.69	.87	.77	.74	---	2.6	2.1	1.3	.44	.33	.17	1.4
31	.76	---	.77	.70	---	2.6	1.1	1.1	---	.31	.20	---
TOTAL	14.90	22.62	26.80	26.86	395.80	265.9	97.7	48.3	24.64	10.51	8.88	247.76
MEAN	.48	.75	.86	.87	13.6	8.58	3.26	1.56	.82	.34	.29	8.26
MAX	.76	.90	1.3	1.1	193	83	16	3.5	1.6	.50	.59	143
MIN	.24	.65	.70	.70	.72	2.6	1.7	1.1	.43	.23	.17	.24
AC-FT	30	45	53	53	785	527	194	96	49	21	18	491
CAL YR 1975	TOTAL	1278.18	MEAN 3.50	MAX 165	MIN .22	AC-FT 2540						
WTR YR 1976	TOTAL	1190.67	MEAN 3.25	MAX 193	MIN .17	AC-FT 2360						

LOS ANGELES RIVER BASIN

11098500 LOS ANGELES RIVER NEAR DOWNEY, CA

LOCATION.--Lat 33°56'58", long 118°10'23", in San Antonio Grant, Los Angeles County, on right bank 400 ft (122 m) downstream from Firestone Boulevard bridge, 1 mi (2 km) upstream from Rio Hondo, 2.5 mi (4.0 km) west of Downey and 33 mi (53 km) downstream from Hansen flood-control reservoir.

DRAINAGE AREA.--599 mi² (1,551 km²).

PERIOD OF RECORD.--March 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 96.12 ft (29.297 m) above mean sea level (levels by Los Angeles County Flood Control District). See WSP 1735 for history of changes prior to Dec. 11, 1956.

REMARKS.--Records poor. Flow regulated since September 1940 by Hansen flood-control reservoir, since December 1941 by Sepulveda flood-control reservoir, combined capacity, 49,400 acre-ft (60.9 hm³/yr), and several small flood-control reservoirs. City of Los Angeles stores imported Owens River water in San Fernando and Chatsworth Reservoirs and at times discharges imported water into Los Angeles River. Many diversions for domestic use and irrigation above station. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records were furnished by Los Angeles County Flood Control District.

AVERAGE DISCHARGE.--48 years (water years 1929-76), 111 ft³/s (3.144 m³/s), 80,420 acre-ft/yr (99.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 79,700 ft³/s (2,260 m³/s) Mar. 2, 1938, on basis of slope-area measurement; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, unknown; minimum daily, 6.0 ft³/s (0.17 m³/s) Aug. 24.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	15	9.8	11	15	1120	9.8	21	19	15	13	21
2	23	14	11	11	15	172	9.0	21	16	16	14	17
3	21	15	11	9.8	15	730	12	19	14	15	13	30
4	20	20	15	9.8	97	34	559	16	18	14	9.0	23
5	17	15	20	12	671	20	83	15	17	15	9.0	282
6	28	12	22	15	2450	17	15	13	16	16	9.8	890
7	22	13	18	11	533	17	15	44	21	21	9.0	32
8	21	12	16	8.4	1340	17	123	21	37	18	11	28
9	22	12	15	8.4	2730	30	72	16	39	14	11	25
10	19	11	14	8.4	207	189	16	15	233	12	12	3390
11	153	11	15	8.4	39	27	16	16	152	11	14	1330
12	41	13	142	9.8	23	22	29	14	18	13	15	87
13	16	11	133	9.0	25	16	564	12	12	14	16	23
14	19	11	16	9.8	17	15	68	15	14	15	15	15
15	21	12	13	12	14	15	44	12	15	15	100	30
16	22	11	11	11	14	15	37	13	20	15	91	24
17	19	12	11	14	15	13	23	13	24	15	20	17
18	20	13	11	14	15	13	22	14	18	13	16	9.8
19	17	12	9.0	13	20	13	19	15	15	13	12	12
20	18	11	11	15	13	12	15	13	12	12	11	13
21	17	12	9.0	12	12	12	15	13	11	11	7.8	14
22	16	12	9.0	11	12	16	16	14	11	13	8.4	16
23	13	12	9.0	12	14	35	16	17	11	15	8.4	20
24	12	12	9.8	15	20	24	14	21	13	13	6.0	206
25	15	14	11	15	14	15	13	22	14	13	7.2	57
26	19	22	9.8	14	14	14	13	21	14	14	9.0	17
27	21	21	9.8	15	12	14	12	21	13	18	13	13
28	19	22	12	11	12	13	13	23	19	16	11	15
29	16	17	14	13	12	13	13	22	15	15	12	64
30	34	11	18	14	---	14	20	22	15	15	12	32
31	88	---	15	15	---	11	---	19	---	14	15	---
TOTAL	834	411	650.2	367.8	8390	2696	1895.8	553	866	449	530.6	6752.8
MEAN	26.9	13.7	21.0	11.9	289	87.0	63.2	17.8	28.9	14.5	17.1	225
MAX	153	22	142	15	2730	1120	564	44	233	21	100	3390
MIN	12	11	9.0	8.4	12	11	9.0	12	11	11	6.0	9.8
AC-FT	1650	815	1290	730	16640	5350	3760	1100	1720	891	1050	13390
CAL YR 1975	TOTAL	31401.2	MEAN	86.0	MAX	5280	MIN	9.0	AC-FT	62280		
WTR YR 1976	TOTAL	24396.2	MEAN	66.7	MAX	3390	MIN	6.0	AC-FT	48390		

11101250 RIO HONDO ABOVE WHITTIER NARROWS DAM, CA

LOCATION.--Lat 34°03'32", long 118°04'13", in Potrero Grande Grant, Los Angeles County, on right bank 0.3 mi (0.5 km) downstream from Garvey Avenue, 0.4 mi (0.6 km) downstream from Rubio Wash, and 2.2 mi (3.5 km) west of El Monte.

DRAINAGE AREA.--91.2 mi² (236.2 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 217.8 ft (66.39 m) above mean sea level.

REMARKS.--Records fair. Flow regulated by Big Santa Anita, Sawpit, and Eaton flood-control reservoirs, combined capacity, 1,700 acre-ft (2.01 hm³) and Sierra Madre, Las Flores, and Rubio debris basins. Many diversions above station for domestic use and irrigation. No water diverted by Los Angeles County Flood Control District from San Gabriel River below Santa Fe Dam to Rio Hondo during current year. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records of diversion were furnished by the Los Angeles County Flood Control District.

AVERAGE DISCHARGE.--20 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, 17,700 ft³/s (501 m³/s) Jan. 25, 1969, gage height, 7.23 ft (2.204 m); no flow in some years.

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)
Feb. 5	2400	3820 108	3.75 1.143	Mar. 2	1945	3220 91.2	3.57 1.088
Feb. 9	0245	3310 93.7	3.60 1.097	Sept. 11	0250	*8500 241	4.93 1.503

Minimum daily discharge, 0.14 ft³/s (0.004 m³/s) Apr. 17.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	.56	.75	.29	1.0	446	.90	.50	.45	1.7	.97	1.6
2	2.2	.80	.72	.38	1.3	285	1.6	.72	.57	1.6	3.1	2.1
3	1.8	1.0	1.1	.50	1.0	9.2	7.9	.45	.58	1.3	.82	4.2
4	2.4	1.1	.97	.54	.67	1.7	92	.28	.65	1.4	1.4	1.8
5	2.3	.88	.92	1.1	192	1.1	2.8	1.6	.62	1.1	2.8	80
6	10	.81	1.2	1.2	396	.62	.68	.38	.53	2.7	2.3	16
7	7.4	.72	.97	.84	46	.53	.75	12	.62	2.7	1.1	4.3
8	1.4	.76	1.8	1.1	305	1.7	14	.19	.72	2.7	1.3	2.1
9	1.4	.71	1.0	1.1	440	2.9	.80	.31	.96	2.9	2.3	1.4
10	1.6	.90	.86	1.1	6.8	11	.67	.45	19	.96	2.7	1010
11	37	.80	.94	.85	1.0	4.3	3.2	.38	.72	.96	2.0	691
12	3.9	.80	.86	.91	.96	3.6	51	.53	.53	4.8	2.1	1.6
13	1.0	.64	1.8	1.2	.79	.84	132	.53	.62	7.1	2.9	1.1
14	.55	.73	.63	1.6	.59	.84	.38	.84	.84	4.8	2.0	1.2
15	.86	.81	.71	1.1	.54	3.1	5.9	1.7	.84	6.5	8.2	8.7
16	.93	.77	.41	1.1	.67	4.8	.38	.83	.96	4.1	1.4	.72
17	1.0	.82	.50	1.1	.80	2.9	.14	.48	.72	4.3	.86	.45
18	.72	.53	.51	.99	.70	3.6	.25	.51	3.1	2.7	.65	.72
19	2.0	.71	.61	1.1	.79	3.8	.38	.51	.96	1.9	.81	.72
20	1.3	.68	.67	.77	.66	1.4	.53	.42	.71	2.1	1.4	.96
21	.84	.77	.66	.92	.68	1.7	.53	.37	.88	4.6	.64	.84
22	.69	.60	.77	.90	.53	4.8	.38	.45	1.1	3.8	.51	.84
23	.76	.81	.92	1.0	1.3	4.6	.45	.59	.89	3.3	1.5	.72
24	.77	1.1	.64	.88	1.3	4.1	.45	.58	1.6	2.5	1.5	6.6
25	.74	.89	.47	.74	.73	4.1	.62	.37	2.0	2.0	1.1	3.5
26	.78	.75	.58	1.3	.80	3.4	.72	.63	2.2	2.8	2.0	.58
27	.78	7.3	.58	.79	.75	3.4	.46	.55	1.6	3.4	2.3	.60
28	.83	2.2	.61	.86	.66	2.3	.34	.63	3.0	3.0	1.1	.67
29	1.2	1.3	1.0	.88	.73	2.5	.30	.58	2.7	1.2	.88	.83
30	9.6	.44	.77	1.1	---	1.3	.39	.57	1.7	1.3	2.5	.93
31	.79	---	.53	1.1	---	.94	---	.51	---	.96	2.8	---
TOTAL	100.44	31.69	110.60	29.34	1471.08	822.07	320.90	29.44	52.37	87.18	57.94	1846.78
MEAN	3.24	1.06	3.57	.95	50.7	26.5	10.7	.95	1.75	2.81	1.87	61.6
MAX	37	7.3	86	1.6	440	446	132	12	19	7.1	8.2	1010
MIN	.55	.44	.41	.29	.53	.53	.14	.19	.45	.96	.51	.45
AC-FT	199	63	219	58	2920	1630	637	58	104	173	115	3660
CAL YR 1975 TOTAL	3679.02		MEAN 10.1	MAX 545	MIN .41	AC-FT 7300						
WTR YR 1976 TOTAL	4959.83		MEAN 13.6	MAX 1010	MIN .14	AC-FT 9840						

LOS ANGELES RIVER BASIN

11101380 ALHAMBRA WASH AT KLINGERMAN STREET NEAR MONTEBELLO, CA

LOCATION.--Lat 34°03'22", long 118°05'12", in Potrero Grande Grant, Los Angeles County, on left bank 250 ft (76 m) north of Klingerman Street and 0.1 mi (0.2 km) south of Garvey Avenue in South San Gabriel.

DRAINAGE AREA.--15.2 mi² (39.4 km²), by Los Angeles County Flood Control District.

PERIOD OF RECORD.--October 1975 to September 1976. September 1936 to September 1975 in the files of Los Angeles County Flood Control District.

GAGE.--Water-stage recorder. Altitude of gage is 240 ft (73 m) from topographic map.

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

COOPERATION.--Records were furnished by Los Angeles County Flood Control District.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 5,010 ft³/s (142 m³/s) Mar. 2, 1938, gage height unknown, from information by Los Angeles County Flood Control District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,820 ft³/s (51.5 m³/s) Feb. 5, gage height, 3.12 ft (0.951 m); minimum daily, 0.30 ft³/s (0.008 m³/s) June 5-7.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.90	.40	1.8	.90	.90	131	1.1	.90	.60	.90	1.4	1.6
2	.60	.40	2.3	.60	.90	85	1.1	.90	.90	1.4	1.6	1.8
3	.60	.60	1.8	.90	.90	6.8	14	.90	.60	1.1	1.6	13
4	.60	.90	1.6	.90	26	.60	12	.60	.60	1.4	2.1	1.8
5	.60	.90	1.4	.90	104	.60	.90	.40	.30	1.4	2.3	37
6	7.9	1.1	1.4	.90	137	.60	.60	3.5	.30	1.6	1.8	4.0
7	1.1	.40	.90	.90	32	.60	.60	4.1	.30	1.6	1.8	2.3
8	.90	.40	1.1	.90	144	.60	14	.90	.40	1.6	1.8	2.6
9	.60	.40	1.1	.90	188	5.9	1.1	.90	.40	1.6	1.8	2.3
10	.40	.60	.90	.90	2.1	4.1	1.1	.90	3.9	1.8	1.8	274
11	15	.60	1.1	.90	.90	.60	1.1	.90	1.1	1.6	1.4	139
12	1.6	.60	50	.90	.90	.60	36	.90	1.1	1.6	1.4	2.1
13	1.8	.60	1.4	1.1	.60	.60	22	1.1	1.4	1.6	1.4	1.8
14	1.6	.60	1.1	1.1	.60	.60	.60	1.1	1.4	1.4	1.4	1.6
15	1.8	.60	1.4	.90	.60	.60	.90	1.1	1.4	1.4	16	2.1
16	1.8	.40	1.4	.90	.60	.60	.40	.90	1.4	1.4	1.6	1.6
17	2.1	.40	1.1	1.1	.60	.60	.60	.90	1.4	1.4	1.6	1.6
18	1.8	.60	1.1	1.1	.60	.90	.40	.90	1.4	1.1	1.4	1.4
19	1.8	.60	1.1	1.4	.90	.90	.90	1.1	1.4	1.1	1.6	1.6
20	1.6	.90	.90	1.1	.60	.90	.90	.90	1.1	.90	1.6	1.6
21	1.6	.60	.90	1.1	.60	.90	.90	1.1	.90	1.4	1.4	1.6
22	1.6	.60	.90	1.1	.90	.90	.60	.60	.90	1.6	1.6	1.6
23	1.8	.60	.90	.90	.90	.90	.90	.40	.90	1.6	1.8	1.6
24	1.1	.90	.90	.60	.90	.90	.90	.90	.90	1.6	1.8	4.1
25	1.1	1.4	.90	.60	.60	.90	.90	1.1	1.1	1.6	1.6	1.8
26	1.1	1.1	.90	.60	.60	1.1	1.1	1.1	1.1	1.6	1.6	1.6
27	1.1	1.1	.90	.90	.60	.90	.90	1.1	1.1	1.8	1.8	1.6
28	1.1	.90	.90	.90	.90	.90	.60	.90	1.4	1.6	1.6	1.4
29	1.1	.90	.90	.90	.60	1.1	.90	.40	1.4	1.8	1.6	1.4
30	8.5	1.4	.90	.90	---	.90	.90	.40	1.1	1.8	1.8	1.8
31	.60	---	.90	.90	---	.90	---	.40	---	1.6	1.8	---
TOTAL	65.80	21.50	84.80	28.60	649.30	253.00	118.90	32.20	32.20	45.90	65.8	513.3
MEAN	2.12	.72	2.74	.92	22.4	8.16	3.96	1.04	1.07	1.48	2.12	17.1
MAX	15	1.4	50	1.4	188	131	36	4.1	3.9	1.8	16	274
MIN	.40	.40	.90	.60	.60	.60	.40	.40	.30	.90	1.4	1.4
AC-FT	131	43	168	57	1290	502	236	64	64	91	131	1020
WTR YR 1976	TOTAL	1911.30	MEAN	5.22	MAX	274	MIN	.30	AC-FT	3790		

11101500 RIO HONDO NEAR MONTEBELLO, CA

LOCATION.--Lat 34°02'00", long 118°04'22", in Potrero Grande Grant, Los Angeles County, on right bank 900 ft (274 m) upstream from Mission bridge, and 2 mi (3 km) northeast of Montebello.

DRAINAGE AREA.--116 mi² (300 km²), excludes area above Santa Fe Dam.

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 190.77 ft (58.147 m) above mean sea level (levels by Los Angeles County Flood Control District). See WSP 1735 for history of changes prior to September 1962.

REMARKS.--Records poor. Flow regulated by Big Santa Anita, Sawpit, and Eaton flood-control reservoirs, combined capacity, 1,700 acre-ft (2.10 hm³) and Sierra Madre, Las Flores, and Rubio debris basins. Many diversions above station for domestic use and irrigation. At times flow is diverted from San Gabriel River below Santa Fe Dam to Rio Hondo above station. Since 1957, with the exception of 1972, imported Colorado River water has been released to Rio Hondo 1.6 mi (2.6 km) above station for ground-water recharge. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records were furnished by Los Angeles County Flood Control District.

AVERAGE DISCHARGE.--29 years (water years 1929-57), 51.5 ft³/s (1.458 m³/s), 37,280 acre-ft/yr (46.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,000 ft³/s (793 m³/s) Mar. 2, 1938, gage height, 16.69 ft (5.087 m), present datum; from rating curve extended above 9,000 ft³/s (255 m³/s) on basis of slope-area measurement and runoff from contributing stream; no flow for some days in 1964-65.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,660 ft³/s (274 m³/s) Sept. 11, gage height, 9.81 ft (2.990 m); minimum daily, 0.20 ft³/s (0.006 m³/s) for several days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	2.5	1.4	1.5	.40	493	1.5	1.0	1.8	.80	.20	2.1
2	2.1	2.3	2.1	1.5	.50	386	2.1	1.0	1.8	.70	1.0	1.5
3	1.9	2.3	1.5	1.5	.50	35	4.0	1.0	1.8	.70	.50	33
4	1.9	2.5	1.4	1.5	56	6.3	99	1.0	2.0	.50	1.9	6.4
5	2.1	2.5	1.4	1.4	167	5.4	5.6	1.0	1.7	.30	2.8	158
6	14	2.6	1.5	1.4	650	4.7	1.0	1.0	1.5	1.2	.70	32
7	9.5	2.3	1.4	1.4	75	3.4	1.0	13	1.5	1.2	.50	4.9
8	3.2	2.3	1.5	1.4	345	3.4	20	1.0	1.7	1.5	.40	3.0
9	2.8	2.3	1.5	1.3	592	7.8	2.0	1.0	1.9	1.9	.40	2.5
10	2.8	2.1	1.4	1.3	18	2.2	1.0	1.0	32	1.5	.20	1400
11	41	1.9	1.2	1.3	3.0	7.2	1.0	1.0	1.9	.80	.30	1090
12	4.7	1.9	314	1.2	2.9	5.8	45	1.0	1.7	1.5	.20	6.9
13	4.0	2.1	10	1.2	2.8	4.8	165	1.0	1.7	1.2	.20	3.4
14	3.0	1.7	2.0	1.2	2.7	3.7	3.8	1.0	1.9	1.0	.20	2.5
15	2.0	1.0	1.9	1.2	2.6	2.6	8.3	1.0	1.4	3.6	49	17
16	1.5	1.0	1.9	1.2	2.5	3.2	3.0	1.2	1.9	1.9	5.4	1.0
17	1.8	1.0	1.8	1.3	2.5	3.0	2.5	1.2	.80	1.5	1.2	1.0
18	2.1	1.1	1.8	1.4	2.5	3.2	2.0	1.2	2.3	1.0	.20	.80
19	2.4	1.1	1.8	1.4	2.5	3.0	1.5	1.2	2.3	.70	.20	.80
20	2.7	1.1	1.8	1.5	2.5	1.9	1.2	1.2	1.9	.50	1.7	.60
21	3.0	1.2	1.8	1.4	2.4	1.9	1.0	1.4	2.5	1.4	.70	.60
22	3.3	1.2	1.7	1.5	2.4	3.0	.90	1.4	2.3	2.3	.30	.50
23	3.6	1.2	1.7	1.7	2.3	3.0	.90	1.4	3.8	2.1	.30	.50
24	3.4	1.2	1.7	1.5	2.3	3.4	.90	1.4	11	1.7	2.5	22
25	3.2	1.2	1.7	1.2	2.2	3.2	.90	1.4	1.4	.80	2.6	9.2
26	3.0	2.3	1.7	1.5	2.2	3.0	.90	1.6	.80	1.5	2.6	3.6
27	2.8	8.7	1.6	.70	2.1	3.0	.90	1.6	.80	3.2	2.8	2.6
28	2.6	2.1	1.6	1.0	2.0	2.1	.90	1.6	1.2	2.1	2.1	2.3
29	2.4	3.0	1.6	.80	2.0	2.3	1.5	1.6	1.9	1.0	.30	2.6
30	17	1.2	1.6	1.0	---	1.5	1.0	1.6	1.0	.80	3.2	4.0
31	6.9	---	1.6	.30	---	1.5	---	1.6	---	.20	4.5	---
TOTAL	158.6	60.9	371.6	39.70	1950.80	1013.5	380.30	49.6	92.20	41.10	89.10	2815.30
MEAN	5.12	2.03	12.0	1.28	67.3	32.7	12.7	1.60	3.07	1.33	2.87	93.8
MAX	41	8.7	314	1.7	650	493	165	13	32	3.6	49	1400
MIN	1.5	1.0	1.2	.30	.40	1.5	.90	1.0	.80	.20	.20	.50
AC-FT	315	121	737	79	3870	2010	754	98	183	82	177	5580
CAL YR 1975 TOTAL	5864.10			MEAN 16.1	MAX 762	MIN 1.0	AC-FT 11630					
WTR YR 1976 TOTAL	7062.70			MEAN 19.3	MAX 1400	MIN .20	AC-FT 14010					

LOS ANGELES RIVER BASIN

11102000 MISSION CREEK NEAR MONTEBELLO, CA

LOCATION.--Lat 34°01'45", long 118°04'07", in La Merced Grant, Los Angeles County, on upstream side of right abutment of San Gabriel Boulevard bridge, 2 mi (3 km) northeast of Montebello.

DRAINAGE AREA.--4.16 mi² (10.77 km²).

PERIOD OF RECORD.--October 1929 to current year. Yearly estimate for 1938, published in WSP 1315-B. Prior to October 1944, published as Rio Hondo Slough near Montebello.

GAGE.--Water-stage recorder. Datum of gage is 188.2 ft (57.36 m) above mean sea level. Prior to Nov. 3, 1938, at datum 6.30 ft (1.920 m) higher.

REMARKS.--Records poor. Flow is almost entirely from ground-water seepage. Flow partially regulated above station by Legg Lake. No diversion above station. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records furnished by Los Angeles County Flood Control District.

AVERAGE DISCHARGE.--47 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 not determined, occurred Mar. 2, 1938; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1.6 ft³/s (0.045 m³/s) Sept. 11; no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0									0
2			0									0
3			0									0
4			0									0
5			0									0
6			0									0
7			0									0
8			0									0
9			0									0
10			0									0
11			0									1.6
12			.20									0
13			.30									0
14			0									0
15			0									0
16			0									0
17			0									0
18			0									0
19			0									0
20			0									0
21			0									0
22			0									0
23			0									0
24			0									0
25			0									0
26			0									0
27			0									0
28			0									0
29			0									0
30			0									0
31		---	0		---		---		---			---
TOTAL	0	0	.50	0	0	0	0	0	0	0	0	1.6
MEAN	0	0	.016	0	0	0	0	0	0	0	0	.053
MAX	0	0	.30	0	0	0	0	0	0	0	0	1.6
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	1.0	0	0	0	0	0	0	0	0	3.2
CAL YR 1975	TOTAL 0.70	MEAN .0020	MAX .30	MIN 0	AC-FT 1.4							
WTR YR 1976	TOTAL 2.10	MEAN .0060	MAX 1.6	MIN 0	AC-FT 4.2							

11102300 RIO HONDO BELOW WHITTIER NARROWS DAM, CA

LOCATION.--Lat 34°01'00", long 118°05'15", in Paso de Bartolo Grant, Los Angeles County, on right levee 0.2 mi (0.3 km) upstream from Beverly Boulevard, 0.4 mi (0.6 km) downstream from axis of Whittier Narrows Dam, and 1.0 mi (1.6 km) northeast of Montebello.

DRAINAGE AREA.--124 mi² (321 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 175 ft (53 m), from topographic map.

REMARKS.--Records poor. Flow regulated by Whittier Narrows flood-control reservoir, capacity, 36,160 acre-ft (44.6 hm³). There are several small flood-control reservoirs, combined capacities, 1,700 acre-ft (2.10 hm³) and several small debris basins above Whittier Narrows Dam. Many diversions for domestic use and irrigation. At times flow is diverted from San Gabriel River to Rio Hondo from sites below Santa Fe Dam and above Whittier Narrows Dam. See schematic diagram of San Gabriel and Los Angeles River basins.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38,800 ft³/s (1,100 m³/s) Jan. 25, 1969, gage height, 13.82 ft (4.212 m), from rating curve extended above 15,000 ft³/s (425 m³/s) on basis of gate openings at dam at gage heights 12.32 ft (3.755 m) and 13.82 ft (4.212 m); no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,430 ft³/s (352 m³/s) Sept. 11, gage height, 7.33 ft (2.234 m); no flow for several days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	2.0	38	76	88	486	17	0	122	52	13	.96
2	1.6	1.5	35	47	92	181	12	0	131	51	12	.98
3	1.6	1.5	8.0	18	96	275	11	0	139	57	12	8.3
4	1.3	3.0	8.1	20	124	16	96	0	139	57	13	6.4
5	1.3	6.4	13	22	163	74	21	0	138	57	13	55
6	6.2	7.9	13	20	612	83	16	.13	140	57	13	33
7	29	6.8	12	17	141	83	13	13	136	57	13	.91
8	12	7.0	10	11	319	76	32	3.8	148	50	13	.30
9	8.7	7.7	10	4.9	678	75	14	4.4	149	22	13	.18
10	6.2	7.1	11	4.9	163	86	12	8.1	164	22	7.4	415
11	46	9.2	14	4.4	22	73	11	7.5	126	22	.04	1240
12	14	6.6	117	4.4	90	62	28	6.6	115	22	0	.39
13	11	7.4	37	4.4	101	58	195	7.6	122	22	0	5.2
14	9.0	9.6	37	2.7	99	57	17	8.0	122	27	0	1.5
15	14	10	37	2.9	85	57	14	9.6	132	27	20	1.0
16	16	5.2	37	3.5	58	55	8.4	10	146	21	4.5	.96
17	13	2.7	37	3.8	59	46	0	10	148	10	.25	1.1
18	75	1.4	38	3.8	56	45	0	12	148	9.2	.01	.96
19	88	2.9	39	3.8	47	14	0	10	148	9.1	.06	.76
20	26	5.2	40	28	44	31	0	11	146	10	0	.32
21	10	23	40	84	39	20	0	13	148	9.6	0	.76
22	10	82	40	89	39	50	0	13	147	10	0	.96
23	10	80	39	61	61	56	0	13	142	10	0	.87
24	8.8	79	38	37	25	62	0	13	89	10	.11	2.3
25	7.9	84	38	36	39	62	0	13	0	11	.33	1.0
26	7.9	58	39	36	36	62	0	5.9	0	13	.37	0
27	7.9	38	40	36	46	62	0	86	0	16	.64	.06
28	26	31	40	36	53	59	0	111	9.6	16	.64	.09
29	50	36	59	36	52	57	0	116	44	13	.64	0
30	51	36	80	61	---	57	0	116	51	12	.53	0
31	8.4	---	72	90	---	36	---	116	---	12	.64	---
TOTAL	579.9	658.1	1116.1	904.5	3527	2516	517.4	737.63	3389.6	793.9	151.16	1817.87
MEAN	18.7	21.9	36.0	29.2	122	81.2	17.2	23.8	113	25.6	4.88	60.6
MAX	88	84	117	90	678	486	195	116	164	57	20	1240
MIN	1.3	1.4	8.0	2.7	22	14	0	0	0	9.1	0	0
AC-FT	1150	1310	2210	1790	7000	4990	1030	1460	6720	1570	300	3610

CAL YR 1975 TOTAL 23032.00 MEAN 63.1 MAX 657 MIN 0 AC-FT 45680
WTR YR 1976 TOTAL 16709.16 MEAN 45.7 MAX 1240 MIN 0 AC-FT 33140

LOS ANGELES RIVER BASIN

11102500 RIO HONDO NEAR DOWNEY, CA

LOCATION.--Lat 33°56'48", long 118°09'43", in San Antonio Grant, Los Angeles County, on left bank 700 ft (213 m) upstream from Stewart and Gray Road bridge, 1.0 mi (1.6 km) upstream from mouth, and 1.5 mi (2.4 km) west of Downey.

DRAINAGE AREA.--143 mi² (370 km²), excludes area above Santa Fe Dam.

PERIOD OF RECORD.--March 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 91.4 ft (27.86 m) above mean sea level (levels by Los Angeles County Flood Control District). Prior to Oct. 31, 1951, at site 700 ft (213 m) downstream at datum 1.5 ft (0.46 m) lower.

REMARKS.--Records poor. Flow regulated since January 1956 by Whittier Narrows flood-control reservoir, capacity, 36,160 acre-ft (44.6 hm³). There are several small flood-control reservoirs, combined capacity, 1,700 acre-ft (2.10 hm³) and several debris basins above Whittier Narrows Dam. Many diversions above station for domestic use and irrigation. At times flow is diverted from San Gabriel River below Santa Fe Dam and above Whittier Narrows Dam to Rio Hondo above station. Since 1937 much of the flow in Rio Hondo has been diverted to percolation basin from a site 5.5 mi (8.8 km) upstream. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records furnished by Los Angeles County Flood Control District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46,900 ft³/s (1,330 m³/s) Jan. 25, 1969, gage height, 15.15 ft (4.618 m); no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,820 ft³/s (278 m³/s) Sept. 11, gage height, 6.35 ft (1.935 m); no flow many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.60	.10	.10	0	.10	112	.10	.10	.10	.10	.10	.10
2	.60	.10	.10	0	.10	385	.10	.10	.10	.10	.10	.10
3	.30	.10	.10	0	.10	69	7.3	0	.10	.10	.10	.10
4	.10	.10	.10	0	5.7	.10	19	.10	.10	.10	.10	4.6
5	.30	.10	.10	0	50	.10	.10	.10	.10	.10	.10	25
6	3.9	.10	.10	.10	143	.10	0	.10	.10	.10	.10	2.0
7	.80	.10	.10	.10	5.7	.10	0	.10	.10	.10	.10	.50
8	0	.10	.10	.10	40	.10	1.2	.10	.30	.10	.10	.10
9	0	.10	.10	.10	920	4.1	.10	.10	.10	.10	.10	.10
10	0	.10	.10	.10	554	13	0	.10	5.1	.10	.10	229
11	15	.10	.10	.10	12	.10	.10	.10	.10	.10	.10	574
12	0	.10	8.1	.10	.10	0	23	.10	.10	.10	.10	.10
13	0	.10	.10	.10	.10	0	16	.10	.10	.30	.10	.10
14	0	.10	0	.10	.10	.10	0	.10	.10	.10	.10	.10
15	.10	.10	0	.10	.10	0	.30	.10	.10	.10	.90	.10
16	.10	.10	0	.10	.10	.10	.10	.10	.10	.10	.10	.10
17	.10	.10	.10	.10	.10	.10	0	.10	.10	.10	.10	.10
18	.10	.10	0	.10	.10	.10	0	.10	.10	.10	.10	.10
19	.10	.10	.10	.10	.10	0	0	.10	.10	.10	.10	.10
20	.10	.10	.10	.10	.10	0	0	.10	.10	.10	.10	.10
21	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10
22	.10	.10	.10	.10	.10	0	.10	.10	.30	.10	.10	.10
23	0	.10	.10	.10	.10	.10	.10	.10	.30	.10	.10	.10
24	0	.10	.10	.10	.10	.10	.10	.10	.30	.10	.10	69
25	0	.10	.10	.10	.10	.10	.10	.10	.50	.10	.10	.70
26	0	.10	.10	.10	.10	.10	.10	.10	.10	.50	.10	.10
27	0	.10	.10	.10	.10	.10	0	.10	.10	.10	.10	.10
28	0	.10	.10	.10	.10	.10	0	.10	.30	.10	.10	.10
29	.10	0	.10	.10	.10	0	0	.10	.50	.10	.10	.10
30	4.5	.10	.10	.10	---	.10	.10	.10	.30	.10	.10	.10
31	.10	---	.10	.10	---	.10	---	.10	---	.10	.10	---
TOTAL	27.10	2.90	10.70	2.60	1732.50	585.00	68.10	3.00	10.00	3.70	3.90	907.00
MEAN	.87	.097	.35	.084	59.7	18.9	2.27	.097	.33	.12	.13	30.2
MAX	15	.10	8.1	.10	920	385	23	.10	5.1	.50	.90	574
MIN	0	0	0	0	.10	0	0	0	.10	.10	.10	.10
AC-FT	54	5.8	21	5.2	3440	1160	135	6.0	20	7.3	7.7	1800
CAL YR 1975	TOTAL	1361.50	MEAN 3.73	MAX 303	MIN 0	AC-FT 2700						
WTR YR 1976	TOTAL	3356.50	MEAN 9.17	MAX 920	MIN 0	AC-FT 6660						

11103000 LOS ANGELES RIVER AT LONG BEACH, CA

LOCATION.--Lat 33°49'02", long 118°12'20", in Los Cerritos Grant, Los Angeles County, on right bank 5,000 ft (1,524 m) upstream from Willow Street, 3.4 mi (5.5 km) north of Long Beach, and 3.7 mi (6.0 km) upstream from mouth.

DRAINAGE AREA.--827 mi² (2,140 km²).

PERIOD OF RECORD.--December 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 11.91 ft (3.630 m) above mean sea level (levels by Los Angeles County Flood Control District). See WSP 1735 for history of changes prior to Jan. 19, 1956.

REMARKS.--Records fair. Flow regulated since September 1940 by Hansen flood-control reservoir, since December 1941 by Sepulveda flood-control reservoir, combined capacity, 49,400 acre-ft (60.9 hm³), and several small flood-control reservoirs. City of Los Angeles stores imported Owens River water in San Fernando and Chatsworth reservoirs and at times discharges imported water into Los Angeles River above station. Many diversions above station for domestic use and irrigation. AVERAGE DISCHARGE represents flow to the ocean, regardless of upstream development. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records were furnished by Los Angeles County Flood Control District.

AVERAGE DISCHARGE.--47 years (water years 1930-76), 166 ft³/s (4.701 m³/s), 120,300 acre-ft/yr (148 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 102,000 ft³/s (2,890 m³/s) Jan. 25, 1969, gage height, 16.00 ft (4.877 m); no flow at times in 1929-30, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,000 ft³/s (453 m³/s) Feb. 9, gage height, 5.85 ft (1.783 m); minimum daily, 12 ft³/s (0.34 m³/s) Jan. 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	30	19	15	19	1640	20	36	26	26	16	33
2	31	24	19	12	19	620	19	36	22	25	18	27
3	32	23	21	13	20	1080	22	32	20	23	16	27
4	33	29	22	14	139	50	785	34	20	19	16	52
5	30	23	26	17	969	22	114	26	20	19	16	61
6	51	19	27	21	3500	19	29	23	18	20	17	1200
7	62	19	23	20	736	18	28	98	19	25	17	46
8	34	19	20	15	1870	16	170	42	41	24	15	36
9	35	18	21	16	4660	26	98	29	34	24	15	32
10	30	18	19	15	838	272	21	29	324	25	18	3830
11	242	19	22	15	73	37	24	26	208	22	18	2650
12	94	22	222	17	34	24	65	24	19	24	19	183
13	25	19	303	15	32	18	788	23	15	24	19	51
14	28	17	32	16	19	17	99	26	13	26	19	35
15	30	19	21	19	15	19	57	23	14	24	64	46
16	30	19	20	19	16	23	47	21	23	23	143	31
17	29	18	19	24	19	23	21	21	37	19	28	28
18	32	20	20	23	19	23	23	22	30	19	22	20
19	28	19	19	22	27	22	21	25	27	19	19	18
20	24	19	19	25	20	20	19	22	20	20	17	20
21	26	21	17	21	19	19	21	23	21	19	13	20
22	24	20	19	20	15	18	23	23	23	19	15	22
23	21	19	20	19	15	42	28	26	22	22	17	24
24	19	18	19	21	28	37	22	28	23	19	15	379
25	20	19	20	19	20	24	20	32	25	19	16	140
26	24	32	16	18	19	23	23	30	24	20	19	45
27	26	34	19	19	19	22	26	29	23	22	22	25
28	29	40	19	18	19	21	29	29	34	23	20	19
29	23	24	22	21	19	21	23	25	29	19	19	35
30	79	19	30	23	---	25	32	26	28	19	19	83
31	126	---	26	21	---	21	---	25	---	19	23	---
TOTAL	1353	659	1141	573	13217	4262	2717	914	1202	670	730	9218
MEAN	43.6	22.0	36.8	18.5	456	137	90.6	29.5	40.1	21.6	23.5	307
MAX	242	40	303	25	4660	1640	788	98	324	26	143	3830
MIN	19	17	16	12	15	16	19	21	13	19	13	18
AC-FT	2680	1310	2260	1140	26220	8450	5390	1810	2380	1330	1450	18280
CAL YR 1975	TOTAL	41721	MEAN 114	MAX	5410	MIN 15	AC-FT	82750				
WTR YR 1976	TOTAL	36656	MEAN 100	MAX	4660	MIN 12	AC-FT	72710				

LOS ANGELES RIVER BASIN

11103010 LOS ANGELES RIVER AT WILLOW STREET BRIDGE, AT LONG BEACH, CA
(National stream-quality accounting network station)

LOCATION.--Lat 33°48'16", long 118°12'15", in Los Cerritos Grant, Los Angeles County, on the Willow Street Bridge, 2.8 mi (4.5 km) upstream from mouth in Long Beach.

DRAINAGE AREA.--831 mi² (2,152 km²).

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

CHEMICAL ANALYSES: February 1973 to current year.

SPECIFIC CONDUCTANCE: October 1973 to current year.

WATER TEMPERATURES: October 1973 to current year.

SEDIMENT RECORDS: Water year 1975 to current year (partial-record station).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1973 to September 1975.

WATER TEMPERATURES: October 1973 to September 1975.

INSTRUMENTATION.--Specific-conductance recorder October 1973 to September 1975. Temperature recorder October 1973 to September 1975.

REMARKS.--Discharge values from Los Angeles River at Long Beach (station 11103000).

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 2,010 micromhos June 30, 1975; minimum recorded, 117 micromhos Mar. 6, 1975.

WATER TEMPERATURES: Maximum recorded, 34.5°C, Aug. 7, 1975; minimum recorded, 2.0°C Jan. 31, 1975.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	TURBIDITY (JTU)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA, MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG)	DISSOLVED SODIUM (NA) (MG/L)
OCT 20...	--	26	9.1	4	660	255	350	140	91	29	150
NOV 17...	1040	17	9.1	8	850	815	390	160	97	35	140
DEC 09...	1200	21	9.2	5	84700	680	340	64	88	29	130
JAN 27...	1115	19	9.1	15	2100	570	390	150	100	33	110
FEB 12...	1000	24	8.0	6	2800	2000	370	180	100	28	100
MAR 23...	1055	60	9.1	6	170	170	310	150	81	26	89
APR 21...	1110	19	8.3	3	8100	470	340	140	78	35	100
MAY 17...	1145	23	9.1	20	400	40	360	180	83	38	120
JUN 17...	1015	31	9.2	2	920	--	360	--	87	34	120
JUL 07...	1020	30	9.3	8	500	320	350	130	83	35	120
AUG 04...	1130	14	9.1	35	1720	960	420	200	100	41	130
SEP 02...	1030	29	8.9	6	410	300	360	160	91	33	110

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED PHOSPHATE-SILICUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CAC03 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SI02) (MG/L)
OCT 20...	48	3.5	8.5	234	8	205	.3	210	170	.6	17
NOV 17...	43	3.1	8.5	226	25	227	.4	240	140	.6	7.2
DEC 09...	44	3.1	11	299	18	275	.3	240	110	.4	11
JAN 27...	38	2.4	9.0	273	6	234	.4	230	120	.6	7.3
FEB 12...	37	2.3	8.1	229	0	188	3.7	230	120	.7	23
MAR 23...	38	2.2	7.5	191	0	157	.2	190	87	.5	12
APR 21...	38	2.4	7.3	246	0	202	2.0	200	110	.6	18
MAY 17...	41	2.7	10	225	0	185	.3	210	130	14	19
JUN 17...	41	2.8	10	--	--	--	--	260	120	.8	24
JUL 07...	42	2.8	9.7	268	0	220	.2	220	120	.5	24
AUG 04...	40	2.8	9.1	263	0	216	.3	270	160	.6	25
SEP 02...	39	2.5	10	251	0	206	.5	220	140	.6	21

B Results based on non-ideal colony count.

11103010 LOS ANGELES RIVER AT WILLOW STREET BRIDGE, AT LONG BEACH, CA--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)
OCT 20...	857	800	1.17	60.2	1.6	2.4	4.0	18	1.2	15000
NOV 17...	834	805	1.13	38.3	1.2	1.9	3.1	14	2.2	47000
DEC 09...	762	785	1.04	43.2	3.5	5.0	8.5	38	2.1	25000
JAN 27...	798	751	1.09	40.9	1.6	4.2	5.8	26	3.4	35000
FEB 12...	764	723	1.04	49.5	2.8	3.3	6.1	27	1.0	440
MAR 23...	633	587	.86	103	2.0	2.5	4.5	20	.41	20000
APR 21...	713	670	.97	36.6	2.2	2.5	4.7	21	.66	65000
MAY 17...	746	735	1.01	46.3	.14	1.4	1.5	6.8	.63	11000
JUN 17...	--	--	--	--	.80	2.0	2.8	12	1.4	53000
JUL 07...	773	744	1.05	62.6	.02	4.6	4.6	20	1.9	130000
AUG 04...	885	865	1.20	33.5	.02	7.4	7.4	33	2.0	190000
SEP 02...	792	749	1.08	62.0	.08	1.4	1.5	6.6	1.5	20000

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDEED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUS-PENDEED CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUS-PENDEED CHROMIUM (CR) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDEED COBALT (CO) (UG/L)
OCT 20...	--	6	1	5	<10	<9	1	50	44	6	<50	<49
JAN 27...	1115	8	4	4	--	--	2	--	--	30	<50	<48
APR 21...	1110	12	0	12	60	38	22	40	10	30	<50	<50
JUL 07...	1020	3	0	4	<10	<9	1	10	0	10	<50	<48

DATE	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDEED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDEED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUS-PENDEED MANGANESE (MN) (UG/L)
OCT 20...	1	20	15	5	290	50	100	92	8	60	20
JAN 27...	2	30	18	12	620	40	--	--	10	--	--
APR 21...	0	90	57	33	240	80	<100	<97	3	30	20
JUL 07...	2	40	27	13	370	40	100	92	8	60	50

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT				
20...	--	26	1550	18.1
20...	1100	26	1550	18.1
NOV				
17...	1040	17	1300	17.5
DEC				
09...	1200	21	1200	17.4
JAN				
27...	1115	19	1250	13.0
28...	0920	18	1460	11.5
29...	1020	27	1490	14.0
30...	1030	23	1280	16.0
FEB				
02...	0920	22	1190	13.0
03...	0910	24	1250	13.0
04...	0930	33	1200	12.0
04...	1510	124	977	14.0
04...	1730	233	695	14.0
05...	0810	656	411	11.0
05...	1205	338	450	14.0
05...	1630	162	478	14.0
06...	0830	3800	164	11.0
06...	1215	2130	191	13.0
06...	1605	990	194	14.0
07...	1140	380	226	13.0
07...	1630	233	291	12.0
08...	1130	1640	181	13.0
09...	0730	8270	135	14.0
09...	1200	3650	171	14.0
09...	1605	2260	216	13.0
09...	1630	2030	188	12.0
10...	0830	1160	222	13.0
10...	1245	656	249	11.0
11...	0915	73	776	13.0
12...	0930	24	1290	11.0
12...	1000	24	1190	14.0
12...	1200	16	1190	14.0
13...	1000	33	1150	12.0
14...	0900	19	1140	12.0
16...	1100	16	1120	11.0
17...	1100	18	1210	11.0
18...	1000	19	1080	11.0
19...	1000	33	1210	11.0
23...	1010	17	1250	11.0
23...	1100	16	1200	11.0
24...	1000	26	1230	11.0
25...	1000	21	1120	11.0
26...	1100	17	1120	11.0
MAR				
01...	1200	6240	183	10.0
02...	0800	137	623	14.0
02...	1200	65	509	14.0
02...	1350	60	428	12.0
03...	0800	895	161	10.0
03...	1200	422	166	10.0
03...	1500	266	209	11.0
04...	1200	55	751	8.0
05...	1200	17	1220	8.0
06...	0800	18	1240	7.0
07...	0800	20	1220	8.0
10...	0900	244	598	12.0
11...	0800	40	592	11.0
15...	0900	19	1400	13.0
16...	1000	23	1400	12.0
17...	0900	22	1180	12.0
18...	0800	28	1170	13.0
22...	0830	19	1450	13.0
23...	0900	36	1430	12.0
23...	1055	60	990	20.0
24...	0800	42	1070	14.0
25...	0830	24	1050	15.0
29...	1000	22	1330	13.0
30...	0800	26	1330	13.0
30...	0830	25	1190	15.0
31...	0800	23	1200	14.0
APR				
04...	0830	1100	341	12.0
04...	1200	603	389	12.0
04...	1500	338	343	12.0
05...	0830	95	436	12.0
05...	1200	65	436	12.0

11103010 LOS ANGELES RIVER AT WILLOW STREET BRIDGE, AT LONG BEACH, CA--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
APR				
05...	1500	73	483	12.0
06...	0900	24	851	16.0
07...	0900	26	848	16.0
08...	0830	23	965	16.0
08...	1200	104	967	16.0
08...	1600	422	363	19.0
12...	0830	24	460	12.0
12...	1200	23	832	13.0
13...	1500	394	361	18.0
14...	1000	162	762	16.0
15...	1030	24	762	13.0
16...	0830	39	731	16.0
17...	0830	24	731	15.0
19...	1000	23	948	15.0
20...	0830	19	946	15.0
21...	0830	20	1120	16.0
21...	1110	19	960	22.0
22...	0830	21	1090	14.0
MAY				
17...	0800	20	1310	17.0
17...	1145	23	1170	25.2
18...	0830	23	1300	17.0
19...	0800	28	1200	16.0
20...	0830	26	1220	16.0
24...	0800	26	1210	16.0
25...	0800	34	1190	16.0
26...	0830	34	1180	17.0
27...	0830	31	1180	17.0
31...	0800	28	1200	17.0
JUN				
01...	0830	27	1190	17.0
02...	0800	26	1220	17.0
03...	0800	21	1230	17.0
07...	0800	24	1200	18.0
08...	0800	45	1170	17.0
09...	0800	33	765	17.0
10...	0830	39	767	17.0
11...	0800	324	292	17.0
14...	0800	14	1150	17.0
15...	0800	14	1160	17.0
16...	0800	18	1110	18.0
17...	0830	31	1100	18.0
17...	1015	31	1230	22.8
21...	0800	24	1090	18.0
22...	0730	27	1060	18.0
23...	0830	18	1240	19.0
24...	0800	27	1240	20.0
27...	0830	26	1160	19.0
28...	0830	33	1160	19.0
29...	0800	31	1510	21.0
JUL				
01...	0800	29	1510	21.0
05...	0830	24	1130	20.0
06...	0830	23	1130	20.0
07...	0830	33	1220	20.0
07...	1020	30	1020	27.0
08...	0800	26	1210	20.0
12...	0800	25	1140	22.0
13...	0830	28	1140	22.0
14...	0730	30	1180	21.0
15...	0700	27	1200	21.0
19...	0730	19	1220	21.0
20...	0700	24	1220	21.0
21...	0830	21	1390	21.0
22...	0800	22	1400	21.0
26...	0800	21	1140	21.0
27...	0800	26	1150	21.0
28...	0800	27	1280	22.0
29...	0800	25	1300	21.0
AUG				
02...	0800	19	1170	19.0
03...	0800	15	1180	19.0
04...	0830	15	1410	19.5
04...	1130	14	1320	26.0
05...	0800	17	1380	19.0
08...	0830	17	1160	19.0
09...	0800	13	1160	19.0
11...	0800	19	1450	21.0
12...	0800	15	1430	22.0
16...	1630	50	1100	25.0

LOS ANGELES RIVER BASIN

11103010 LOS ANGELES RIVER AT WILLOW STREET BRIDGE, AT LONG BEACH, CA--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
AUG				
17...	1630	27	1080	25.0
18...	1600	23	785	25.0
19...	1600	17	775	24.0
23...	1630	17	1330	27.0
24...	1600	18	1310	27.0
24...	1630	16	1280	29.0
25...	1600	16	1290	30.0
SEP				
01...	1600	30	963	28.0
02...	1015	29	1030	24.0
02...	1030	29	1030	24.0
02...	1730	28	972	28.0
05...	1600	22	804	27.0
06...	1630	288	800	27.0
07...	1600	38	1020	28.0
08...	0600	44	1020	28.0
10...	1200	6240	141	20.0
10...	1600	4280	140	20.0
11...	0700	2260	153	18.0
11...	0730	2010	154	18.0
11...	1600	1490	410	20.0
12...	0700	277	330	18.0
12...	1200	137	331	18.0
14...	1630	38	1070	21.0
15...	1600	49	1060	22.0
15...	1630	49	1280	21.0
16...	1630	34	1290	22.0

11103010 LOS ANGELES RIVER AT WILLOW STREET BRIDGE, AT LONG BEACH, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY....GENUS.....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
OCT 20	0000	CHLOROPHYTA .CHLOROPHYCEAE ..CHLOROCOCCALES ...OOCYSTACEAE....ANKISTRODESMUS.....SCENEDESMACEAE #SCENEDESMUS ..ULOTRICHALES ...CHAETOPHORACEAE *STIGEOCLONIUM	GREEN ALGAE	170 5,700 0	1 38 0
		CHRYSTOPHYTA .BACILLARIOPHYCEAE ..CENTRALES ...COSCIDINODISCACEAE....CYCLOTELLA ..PENNALES ...CYMBELLACEAE....CYMBELLA ...GOMPHONEMACEAE....GOMPHONEMA ...NAVICULACEAE....NAVICULA ...NITZSCHIA #NITZSCHIA	DIATOMS CENTRIC PENNATE NAVICULOID	2,200 170 170 670 6,100	14 1 1 4 40
		TOTAL PHYTOPLANKTON		15,000	
NOV 17	1040	CHLOROPHYTA .CHLOROPHYCEAE ..CHLOROCOCCALES ...SCENEDESMACEAE #SCENEDESMUS ..ULOTRICHALES ...CHAETOPHORACEAE #STIGEOCLONIUM	GREEN ALGAE	13,000 11,000	29 23
		CHRYSTOPHYTA .BACILLARIOPHYCEAE ..CENTRALES ...COSCIDINODISCACEAE....CYCLOTELLA ..PENNALES ...CYMBELLACEAE....AMPHORA ...FRAGILARIACEAE....SYNEDRA ...GOMPHONEMACEAE....GOMPHONEMA ...NITZSCHIA #NITZSCHIA	DIATOMS CENTRIC PENNATE NAVICULOID	4,100 240 240 720 17,000	9 1 1 2 37
		CYANOPHYTA .MYXOPHYCEAE ..OSCILLATORIALES ...OSCILLATORIA *OSCILLATORIA	BLUE-GREEN ALGAE FILAMENTOUS		0
		EUGLENOPHYTA .CRYPTOPHYCEAE ..CRYPTOMONIDALES ...CRYPTOMONODACEAE *CRYPTOMONAS	EUGLENOIDS CRYPTOMONADS		0
		.EUGLENOPHYCEAE ..EUGLENALES ...EUGLENACEAE *EUGLENA			0
		TOTAL PHYTOPLANKTON		47,000	

See footnotes at end of table.

11103010 LOS ANGELES RIVER AT WILLOW STREET BRIDGE, AT LONG BEACH, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY....GENUS.....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
FEB 12	1000	CHLOROPHYTA .CHLOROPHYCEAE ..CHLOROCOCCALES ...OOCYSTACEAE....ANKISTRODESMUS....TETRAEDRON ...SCENEDESMACEAE #SCENEDESMUS	GREEN ALGAE		
				26	6
				16	4
				99	22
		CHRYSOPHYTA .BACILLARIOPHYCEAE ..CENTRALES ...COSCINODISCACEAE #CYCLOTELLA ..PENNALES ...NAVICULACEAE....NAVICULA ...NITZSCHIAEAE....NITZSCHIA	DIATOMS CENTRIC PENNATE NAVICULOID		
				84	19
				31	7
				37	8
		CYANOPHYTA .MYXOPHYCEAE ..CHROOCOCCALES ...CHROOCOCCACEAE....ANACYSTIS ...OSCILLATORIALES ...NOSTOCACEAE....ANABAENA ...OSCILLATORIAEAE #OSCILLATORIA	BLUE-GREEN ALGAE COCCOID FILAMENTOUS		
				21	5
				42	9
				89	20
		TOTAL PHYTOPLANKTON		440	
MAR 23	1055	CHLOROPHYTA .CHLOROPHYCEAE ..CHLOROCOCCALES ...OOCYSTACEAE....ANKISTRODESMUS *OOCYSTIS....TETRAEDRON ...SCENEDESMACEAE....SCENEDESMUS	GREEN ALGAE		
				250	1
				250	1
				1,000	5
		CHRYSOPHYTA .BACILLARIOPHYCEAE ..CENTRALES ...COSCINODISCACEAE....CYCLOTELLA ..PENNALES ...CYMBELLACEAE....AMPHORA #CYMBELLA ...GOMPHONEMATACEAE....GOMPHONEMA ...NAVICULACEAE....NAVICULA ...NITZSCHIAEAE #NITZSCHIA	DIATOMS CENTRIC PENNATE NAVICULOID		
				1,000	5
				750	4
				3,000	15
				500	3
				1,700	9
				11,000	58
		TOTAL PHYTOPLANKTON		20,000	

See footnotes at end of table.

11103010 LOS ANGELES RIVER AT WILLOW STREET BRIDGE, AT LONG BEACH, CA--Continued

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY....GENUS.....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
APR 21	1110	CHLOROPHYTA	GREEN ALGAE		
		..CHLOROPHYCEAE			
		...CHLOROCOCCALES			
	OOCYSTACEAE			
		*ANKISTRODESMUS		410	0
	SELENASTRUM			1
	SCENEDESMACEAE			0
		*SCENEDESMUS			
	ULOTRICHALES			
	CHAETOPHORACEAE			
	STIGEOCLONIUM		1,600	3
		CHRYSTOPHYTA			
		..BACILLARIOPHYCEAE	DIATOMS CENTRIC		
		...CENTRALES			
....COSINODISCACEAE					
*CYCLOTELLA			0		
....PENNALES	PENNATE				
....CYMBELLACEAE					
....AMPHORA		410	1		
*CYMBELLA			0		
....GOMPHONEMACEAE					
*GOMPHONEMA			0		
....NAVICULACEAE	NAVICULOID				
#NAVICULA		61,000	94		
....NITZSCHIACEAE					
....NITZSCHIA		1,200	2		
CYANOPHYTA	BLUE-GREEN ALGAE				
..MYXOPHYCEAE	FILAMENTOUS				
...OSCILLATORIALES					
....OSCILLATORIA			0		
*OSCILLATORIA					
TOTAL PHYTOPLANKTON				65,000	
MAY 17	1145	CHLOROPHYTA	GREEN ALGAE		
		..CHLOROPHYCEAE			
		...CHLOROCOCCALES			
	OOCYSTACEAE			
	ANKISTRODESMUS		540	5
	OOCYSTIS		540	5
	SELENASTRUM		950	9
	SCENEDESMACEAE			
	SCENEDESMUS		1,100	10
	ULOTRICHALES			
	CHAETOPHORACEAE			
		*STIGEOCLONIUM			0
		CHRYSTOPHYTA			
		..BACILLARIOPHYCEAE	DIATOMS CENTRIC		
...CENTRALES					
....COSINODISCACEAE					
....CYCLOTELLA		1,100	10		
....PENNALES	PENNATE				
....CYMBELLACEAE					
....CYMBELLA		140	1		
....NAVICULACEAE	NAVICULOID				
....NAVICULA		140	1		
....NITZSCHIACEAE					
#NITZSCHIA		6,500	59		
CYANOPHYTA	BLUE-GREEN ALGAE				
..MYXOPHYCEAE	FILAMENTOUS				
...OSCILLATORIALES					
....OSCILLATORIA			0		
*OSCILLATORIA					
TOTAL PHYTOPLANKTON				11,000	

See footnotes at end of table.

11103010 LOS ANGELES RIVER AT WILLOW STREET BRIDGE, AT LONG BEACH, CA--Continued

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

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY....GENUS.....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
JUNE 17	1015	CHLOROPHYTA .CHLOROPHYCEAE ..CHLOROCOCCALES ...HYDRODICTYACEAE * ...PEDIASTRUM ...OOCYSTACEAE * ...ANKISTRODESMUS ...KIRCHNERIELLA # ...SCENEDESMACEAE ...SCENEDESMUS ..VOLVOCALES ..CHLAMYDOMONADACEAE ...CHLAMYDOMONAS	GREEN ALGAE		
				310	1
				20,000	37
				2,100	4
				920	2
		CHRYSTOPHYTA .BACILLARIOPHYCEAE ..CENTRALES ...COSCINODISCACEAE ...CYCLOTELLA ..PENNALES ...ACHNANTHACEAE ...ACHNANTHES ...GOMPHONEMATACEAE * ...GOMPHONEMA ...NAVICULACEAE ...NAVICULA ...NITZSCHIA ...NITZSCHIA	DIATOMS CENTRIC PENNATE NAVICULOID		
				310	1
				310	1
				920	2
				310	1
		CYANOPHYTA .MYXOPHYCEAE ..CHROOCOCCALES ...CHROOCOCCACEAE # ...ANACYSTIS	BLUE-GREEN ALGAE COCCOID		
				28,000	53
		TOTAL PHYTOPLANKTON		53,000	
JULY 7	1020	CHLOROPHYTA .CHLOROPHYCEAE ..CHLOROCOCCALES ...HYDRODICTYACEAE # ...PEDIASTRUM ...OOCYSTACEAE ...ANKISTRODESMUS ...KIRCHNERIELLA ...SCENEDESMACEAE # ...SCENEDESMUS ..ZYGNEATALES ...DESMIDIACEAE * ...COSMARIUM	GREEN ALGAE PLACODERM DESMIDS		
				33,000	25
				1,200	1
				5,700	4
				57,000	43
					0
		CHRYSTOPHYTA .BACILLARIOPHYCEAE ..CENTRALES ...COSCINODISCACEAE ...CYCLOTELLA	DIATOMS CENTRIC		
				1,400	1
		CYANOPHYTA .MYXOPHYCEAE ..CHROOCOCCALES ...CHROOCOCCACEAE ...ANACYSTIS ...OSCILLATORIALES ...NOSTOCACEAE ...ANABAENA ...OSCILLATORIA # ...OSCILLATORIA	BLUE-GREEN ALGAE COCCOID FILAMENTOUS		
				810	1
				2,000	2
				32,000	24
		TOTAL PHYTOPLANKTON		130,000	

See footnotes at end of table.

11103010 LOS ANGELES RIVER AT WILLOW STREET BRIDGE, AT LONG BEACH, CA--Continued

PHYTOPLANKTON

DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY....GENUS.....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
SEP 2	CONT.	CHRYSTOPHYTA			
		.BACILLARIOPHYCEAE	DIATOMS		
		..CENTRALES	CENTRIC		
		...COSCINODISACEAE			
		....CYCLOTELLA		290	1
		.....PENNALES	PENNATE		
		...ACHNANTHACEAE			
		....ACHNANTHES		200	1
		...FRAGILARIACEAE			
		....SYNEDRA		200	1
		...GOMPHONEMACEAE			
		....GOMPHONEMA		250	1
		...NITZSCHIAEAE			
		....NITZSCHIA		340	2
		CYANOPHYTA	BLUE-GREEN ALGAE		
		.MYXOPHYCEAE			
		..CHROOCOCCALES	COCCOID		
		...CHROOCOCCACEAE			
		....ANACYSTIS			0
		...OSCILLATORIALES	FILAMENTOUS		
		....NOSTOCACEAE			
		#ANABAENA		3,400	17
		...OSCILLATORIAEAE			
		#OSCILLATORIA		8,700	43
		TOTAL PHYTOPLANKTON		20,000	

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

LOS ANGELES RIVER BASIN

11103010 LOS ANGELES RIVER AT WILLOW STREET BRIDGE, AT LONG BEACH, CA--Continued

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

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT 20...	1100	26	18.1	23	1.6	55
NOV 17...	1040	17	17.5	24	1.1	54
DEC 09...	1200	21	17.4	25	1.4	75
JAN 27...	1115	19	13.0	28	1.4	72
FEB 12...	1200	16	14.0	5	.22	64
MAR 23...	1055	60	20.0	36	5.8	70
APR 21...	1110	19	22.0	83	4.3	29
MAY 17...	1145	23	25.2	25	1.6	74
JUN 17...	1015	31	22.8	20	1.7	--
JUL 07...	1020	30	27.0	30	2.4	--
AUG 04...	1130	14	26.0	94	3.6	91
SEP 02...	1015	29	24.0	18	1.4	--

BALLONA CREEK BASIN

11103500 BALLONA CREEK NEAR CULVER CITY, CA

LOCATION.--Lat 33°59'54", long 118°24'05", in La Ballona Grant, Los Angeles County, 500 ft (152 m) upstream from Sawtelle Boulevard bridge, 1.7 mi (2.7 km) south of Culver City, and 4.1 mi (6.6 km) upstream from mouth.

DRAINAGE AREA.--89.5 mi² (231.8 km²), excludes that of Sepulveda Creek. Prior to January 1951, 111 mi² (287 km²), change due to tributary channel realignment.

PERIOD OF RECORD.--February 1928 to current year (after December 1950, flow of Sepulveda Creek excluded).

GAGE.--Water-stage recorder. Datum of gage is 11.98 ft (3.652 m) above mean sea level (levels by Los Angeles County Flood Control District). Prior to May 14, 1936, at site 1 mi (2 km) downstream at different datum. May 14, 1936, to Oct. 3, 1961, at datum 0.72 ft (0.219 m) lower and Oct. 24, 1961, to Aug. 10, 1967, at datum 0.92 ft (0.280 m) lower at site 500 ft (152 m) downstream.

REMARKS.--No regulation above station. At times city of Los Angeles discharges imported Owens River water from several distribution reservoirs into the creek above station. Some small pumping diversions above station for lawn and park use.

COOPERATION.--Records were furnished by Los Angeles County Flood Control District.

AVERAGE DISCHARGE.--22 years (water years 1929-50), 35.2 ft³/s (0.997 m³/s), 25,480 acre-ft/yr (31.4 hm³/yr); 26 years (water years 1951-76), 44.2 ft³/s (1.252 m³/s), 32,020 acre-ft/yr (39.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,500 ft³/s (920 m³/s) Nov. 21, 1967, gage height, 14.89 ft (4.538 m); no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,940 ft³/s (366 m³/s) Sept. 10, gage height, 9.50 ft (2.896 m); minimum daily, 6.2 ft³/s (0.18 m³/s) Dec. 13.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	9.4	12	9.4	10	590	10	11	11	12	9.4	10
2	15	9.4	13	9.4	10	367	11	11	11	12	9.4	10
3	16	11	12	11	11	30	156	12	11	11	10	13
4	13	9.4	11	11	53	9.4	1030	14	11	11	9.4	11
5	12	10	12	12	728	8.8	10	13	10	11	10	232
6	14	10	12	12	446	8.8	8.8	12	11	12	11	49
7	11	11	11	11	91	8.2	9.4	13	11	11	10	13
8	11	16	13	12	353	8.2	65	12	11	11	8.8	11
9	11	13	14	12	1040	29	9.4	11	11	12	9.4	11
10	12	12	13	11	35	84	9.4	11	63	11	9.4	1390
11	122	12	12	11	12	12	9.4	10	11	11	9.4	103
12	11	13	72	13	9.4	12	149	12	11	11	10	12
13	12	16	6.2	12	9.4	11	56	12	11	12	9.4	13
14	13	11	8.8	12	8.8	11	10	12	13	11	10	12
15	13	12	8.8	15	7.6	11	24	11	15	11	25	16
16	14	9.4	8.8	12	7.6	10	10	11	12	11	11	11
17	13	12	8.8	9.4	7.6	11	10	12	12	10	11	10
18	12	11	10	9.4	8.2	11	9.4	13	13	8.8	11	11
19	10	11	10	8.8	7.6	11	11	11	13	10	11	11
20	10	11	10	11	7.6	15	12	12	12	10	11	13
21	10	11	9.4	11	7.6	13	11	12	12	10	11	16
22	10	11	11	10	7.6	12	11	11	12	11	11	21
23	10	11	12	12	9.4	12	11	11	12	11	11	20
24	11	15	11	11	11	12	11	11	12	9.4	11	55
25	11	13	10	10	8.8	12	10	11	13	9.4	11	11
26	11	12	11	11	9.4	13	11	10	12	12	11	9.4
27	12	15	10	11	11	11	12	10	11	11	11	9.4
28	12	11	10	11	11	11	11	10	13	11	12	9.4
29	11	11	12	11	11	12	11	9.4	12	11	12	12
30	26	11	11	11	---	12	12	8.8	13	11	11	8.8
31	11	---	9.4	11	---	10	---	9.4	---	10	11	---
TOTAL	494	350.6	395.2	344.4	2949.6	1388.4	1730.8	349.6	406	336.6	338.6	2134.0
MEAN	15.9	11.7	12.7	11.1	102	44.8	57.7	11.3	13.5	10.9	10.9	71.1
MAX	122	16	72	15	1040	590	1030	14	63	12	25	1390
MIN	10	9.4	6.2	8.8	7.6	8.2	8.8	8.8	10	8.8	8.8	8.8
AC-FT	980	695	784	683	5850	2750	3430	693	805	668	672	4230
CAL YR 1975	TOTAL	13045.2	MEAN	35.7	MAX	1350	MIN	6.2	AC-FT	25880		
WTR YR 1976	TOTAL	11217.8	MEAN	30.6	MAX	1390	MIN	6.2	AC-FT	22250		

TOPANGA CREEK BASIN

11104000 TOPANGA CREEK NEAR TOPANGA BEACH, CA

LOCATION.--Lat 34°03'52", long 118°35'10", in Boca de Santa Monica Grant, Los Angeles County, on right downstream side of bridge abutment on State Highway 27, 1.7 mi (2.7 km) north of Topanga Beach.

DRAINAGE AREA.--18.0 mi² (46.6 km²).

PERIOD OF RECORD.--January 1930 to September 1938, October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 265.60 ft (80.955 m) above mean sea level (levels by Los Angeles County Flood Control District). Prior to June 5, 1940, at different datum. June 5, 1940, to Dec. 9, 1941, at site 400 ft (122 m) upstream at different datum.

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

COOPERATION.--Records were furnished by Los Angeles County Flood Control District.

AVERAGE DISCHARGE.--45 years (water years 1931-38, 1940-76), 5.51 ft³/s (0.156 m³/s), 3,990 acre-ft/yr (4.92 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,200 ft³/s (346 m³/s) Jan. 25, 1969, gage height, 13.36 ft (4.072 m), from rating curve extended above 610 ft³/s (17.3 m³/s) on basis of slope-area measurement of maximum flow; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 72 ft³/s (2.04 m³/s), Feb. 9, gage height, 5.33 ft (1.625 m); minimum daily, 0.04 ft³/s (0.001 m³/s) Aug. 19-21, 24, 25.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	.30	.20	.20	.20	3.2	.20	.20	.10	.05	.10	.05
2	.20	.20	.20	.20	.20	1.9	.20	.20	.10	.05	.10	.05
3	.20	.20	.20	.20	.20	2.9	.20	.20	.10	.10	.05	.10
4	.10	.20	.20	.20	.40	.70	.40	.20	.10	.10	.05	.10
5	.10	.20	.20	.20	.50	.70	.40	.20	.10	.10	.05	.10
6	.10	.20	.20	.20	1.4	.40	.20	.20	.10	.05	.05	.10
7	.10	.20	.20	.20	.90	.40	.20	.20	.10	.05	.05	.10
8	.10	.20	.20	.20	1.9	.40	.20	.20	.10	.05	.10	.10
9	.10	.20	.20	.20	24	.30	.20	.20	.10	.05	.10	.10
10	.10	.20	.20	.20	5.4	.30	.20	.20	.10	.10	.10	2.7
11	.50	.20	.20	.20	.70	.40	.20	.20	.10	.10	.10	1.5
12	.30	.20	.20	.20	.50	.30	.20	.20	.10	.10	.10	.40
13	.30	.20	.20	.20	.40	.30	.40	.10	.10	.10	.10	.10
14	.30	.20	.20	.20	.40	.40	.20	.10	.10	.10	.10	.10
15	.20	.20	.20	.20	.40	.40	.20	.10	.10	.10	.05	.20
16	.20	.20	.20	.20	.30	.40	.20	.10	.10	.10	.05	.10
17	.20	.20	.20	.20	.30	.40	.30	.10	.10	.10	.05	.10
18	.20	.20	.20	.20	.20	.40	.20	.10	.10	.10	.05	.10
19	.20	.10	.20	.20	.20	.40	.20	.10	.05	.10	.04	.20
20	.20	.10	.20	.20	.20	.40	.20	.10	.05	.10	.04	.20
21	.20	.10	.20	.20	.20	.40	.20	.10	.05	.10	.04	.20
22	.20	.10	.20	.20	.20	.30	.20	.10	.05	.10	.05	.20
23	.20	.20	.20	.20	.30	.30	.20	.10	.05	.10	.05	.20
24	.10	.20	.20	.20	.30	.30	.20	.10	.05	.10	.04	.20
25	.10	.20	.20	.20	.30	.40	.20	.10	.05	.10	.04	.20
26	.10	.20	.20	.20	.30	.30	.20	.10	.05	.10	.05	.20
27	.20	.20	.20	.20	.30	.30	.20	.10	.05	.10	.05	.10
28	.20	.20	.20	.20	.30	.20	.20	.20	.05	.10	.05	.10
29	.20	.20	.20	.20	.30	.30	.20	.10	.05	.10	.05	.20
30	.20	.20	.20	.20	---	.20	.20	.10	.05	.10	.05	.20
31	.20	---	.20	.20	---	.20	---	.10	---	.10	.05	---
TOTAL	5.80	5.70	6.20	6.20	41.20	18.20	6.70	4.40	2.40	2.80	1.95	8.30
MEAN	.19	.19	.20	.20	1.42	.59	.22	.14	.080	.090	.063	.28
MAX	.50	.30	.20	.20	24	3.2	.40	.20	.10	.10	.10	2.7
MIN	.10	.10	.20	.20	.20	.20	.20	.10	.05	.05	.04	.05
AC-FT	12	11	12	12	82	36	13	8.7	4.8	5.6	3.9	16
CAL YR 1975	TOTAL	970.70	MEAN	2.66	MAX	286	MIN	.10	AC-FT	1930		
WTR YR 1976	TOTAL	109.85	MEAN	.30	MAX	24	MIN	.04	AC-FT	218		

11105500 MALIBU CREEK AT CRATER CAMP, NEAR CALABASAS, CA

LOCATION.--Lat 34°04'40", long 118°42'03", in SW¼ sec.18, T.1 S., R.17 W., Los Angeles County, on right bank 700 ft (213 m) downstream from Cold Creek, 0.2 mi (0.3 km) downstream from Crater Camp, and 6 mi (10 km) southwest of Calabasas.

DRAINAGE AREA.--105 mi² (272 km²).

PERIOD OF RECORD.--January 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is 432.82 ft (131.924 m) above mean sea level (levels by Los Angeles County Flood Control District). Prior to Nov. 16, 1954, at datum 2.31 ft (0.704 m) lower.

REMARKS.--Records fair. Flow partly regulated by many small recreational reservoirs. Small diversions above station for domestic use.

COOPERATION.--Records were furnished by Los Angeles County Flood Control District.

AVERAGE DISCHARGE.--45 years, 21.3 ft³/s (0.603 m³/s), 15,430 acre-ft/yr (19.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,800 ft³/s (957 m³/s) Jan. 25, 1969, gage height, 21.43 ft (6.532 m), from rating curve extended above 6,000 ft³/s (170 m³/s) on basis of slope-area measurements at gage heights 17.27 ft (5.264 m) and 21.43 ft (6.532 m); no flow at times in some years prior to 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 339 ft³/s (9.60 m³/s) Feb. 9, gage height, 3.78 ft (1.152 m); minimum daily, 1.1 ft³/s (0.031 m³/s) July 12, Aug. 8-11, Sept. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	5.3	7.7	3.8	3.1	13	4.6	4.6	3.1	1.7	1.5	1.1
2	3.8	5.1	7.4	3.5	3.1	21	4.6	4.4	4.2	1.5	1.5	1.2
3	4.2	4.6	4.4	3.5	3.1	44	4.4	4.2	2.2	1.4	1.7	1.4
4	4.2	4.4	4.2	3.3	5.1	16	4.6	4.4	2.0	1.7	1.5	1.4
5	4.4	5.8	8.4	3.8	11	14	8.1	4.4	2.0	1.4	1.5	1.4
6	6.4	5.8	5.7	3.5	11	12	11	4.8	1.9	1.7	1.4	1.9
7	7.1	6.1	9.0	3.3	17	11	5.3	5.6	1.9	1.9	1.2	1.7
8	8.0	5.1	8.6	8.2	18	11	9.1	5.3	2.0	1.5	1.1	1.4
9	6.6	4.4	6.6	11	163	11	11	4.4	2.2	1.4	1.1	1.7
10	5.1	4.2	5.9	9.2	90	11	4.4	4.0	2.3	1.4	1.1	6.8
11	3.3	4.4	5.2	3.8	25	10	3.8	3.3	2.3	1.2	1.1	13
12	3.1	5.1	9.6	3.1	17	12	5.0	2.9	2.5	1.1	1.2	6.3
13	3.3	4.6	8.6	3.3	11	15	14	2.7	2.5	1.4	1.4	6.1
14	2.7	3.8	8.3	4.8	8.0	11	8.3	2.5	2.3	1.4	1.4	4.0
15	3.3	5.2	8.3	4.6	6.1	9.3	5.0	2.3	1.9	1.7	1.4	2.2
16	4.0	3.5	7.4	4.2	5.6	6.1	4.2	2.2	1.5	1.7	1.2	2.0
17	2.9	5.3	3.3	3.5	6.3	4.4	3.8	2.0	1.5	1.2	1.5	1.9
18	3.3	7.4	8.6	3.1	11	4.8	4.0	2.2	1.5	1.5	1.5	1.7
19	3.8	6.8	6.8	2.9	16	4.8	3.8	2.3	1.9	1.5	1.7	1.7
20	3.1	9.5	3.8	3.1	14	4.6	4.2	2.5	2.5	1.9	1.5	1.7
21	4.0	10	3.1	4.8	10	3.5	4.2	2.3	2.2	2.0	1.7	1.9
22	4.2	9.7	2.7	6.0	9.4	3.5	4.4	2.2	1.5	2.2	1.9	1.9
23	3.3	9.3	3.1	10	9.7	4.4	4.6	2.5	1.2	2.2	1.9	2.0
24	2.7	9.3	4.2	4.0	8.4	4.4	4.6	2.7	1.7	2.0	1.9	2.0
25	4.0	9.3	3.8	3.1	7.7	3.8	4.2	2.5	1.7	1.7	1.9	2.0
26	3.3	9.0	4.4	3.1	7.4	4.2	4.0	2.0	1.7	1.5	1.7	2.0
27	2.9	8.3	5.8	2.9	7.4	6.0	4.4	1.9	1.5	1.4	1.5	2.2
28	4.2	5.7	7.7	4.0	9.7	3.8	4.6	1.7	1.2	1.4	1.5	2.2
29	3.6	7.3	5.8	6.0	11	4.4	4.6	1.9	1.2	1.2	1.5	2.7
30	4.6	7.4	2.5	12	---	4.2	4.6	1.9	1.7	1.4	1.5	4.2
31	4.6	---	2.3	6.5	---	4.0	---	2.3	---	1.5	1.2	---
TOTAL	128.2	191.7	183.2	151.9	525.1	292.2	167.4	94.9	59.8	48.7	45.7	83.7
MEAN	4.14	6.39	5.91	4.90	18.1	9.43	5.58	3.06	1.99	1.57	1.47	2.79
MAX	8.0	10	9.6	12	163	44	14	5.6	4.2	2.2	1.9	13
MIN	2.7	3.5	2.3	2.9	3.1	3.5	3.8	1.7	1.2	1.1	1.1	1.1
AC-FT	254	380	363	301	1040	588	332	188	119	97	91	166
CAL YR 1975	TOTAL	4778.5	MEAN	13.1	MAX	519	MIN	2.3	AC-FT	9480		
WTR YR 1976	TOTAL	1972.5	MEAN	5.39	MAX	163	MIN	1.1	AC-FT	3910		

CALLEGUAS CREEK BASIN

11105850 ARROYO SIMI NEAR SIMI, CA

LOCATION.--Lat 34°16'41", long 118°47'43", on line between secs.7 and 8, T.2 N., R.18 W., Ventura County, on downstream side of bridge on Los Angeles Avenue, in town of Simi Valley, 0.5 mi (0.8 km) upstream from Brea Canyon, and 1.1 mi (1.8 km) northwest of Simi.

DRAINAGE AREA.--70.6 mi² (182.9 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1933 to September 1951, October 1952 to current year. Monthly discharge, in acre-ft only, for October 1933 to September 1951, October 1952 to October 1968, published in WSP 2128.

GAGE.--Water-stage recorder. Datum of gage is 700.59 ft (213.540 m) above mean sea level (levels by Ventura County Flood Control District).

REMARKS.--No gage-height record May 19 to September 30. No regulation above station. Pumping from wells for irrigation. City of Simi Valley intermittently discharged ground water into channel from extraction wells this year.

COOPERATION.--Records were furnished by Ventura County Flood Control District and reviewed by Geological Survey.

AVERAGE DISCHARGE.--8 years (water years 1969-76), 6.79 ft³/s (0.192 m³/s), 4,920 acre-ft/yr (6.07 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,330 ft³/s (179 m³/s) Feb. 25, 1969, gage height, 5.7 ft (1.74 m), from floodmark; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft³/s (14.2 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 9	0300	*670 19.0	2.32 0.707
Sept. 10	Unknown	578 16.4	Unknown

No flow Nov. 22, 23, Jan. 31, Feb. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	3.8	4.4	2.2	0	32	3.3	1.6	2.0	2.0	2.0	2.0
2	3.3	2.0	4.4	2.3	.50	25	3.3	2.0	2.0	2.0	2.0	2.0
3	3.3	3.3	4.4	5.0	1.6	6.5	6.4	2.4	2.0	2.0	2.0	2.0
4	3.8	4.4	4.4	5.0	4.0	3.3	4.7	1.3	2.0	2.0	2.0	2.0
5	3.8	3.8	3.3	2.8	12	3.3	2.8	1.3	2.0	2.0	2.0	2.0
6	3.8	3.3	1.3	1.6	44	3.3	2.0	1.0	2.0	2.0	2.0	2.0
7	2.8	3.0	1.6	3.8	50	2.4	1.0	2.0	2.0	2.0	2.0	2.0
8	2.4	2.8	3.8	3.3	34	2.4	4.4	1.3	2.0	2.0	2.0	2.0
9	4.4	2.8	5.6	1.3	162	3.8	2.8	1.6	2.0	2.0	2.0	2.0
10	4.4	2.8	6.3	1.6	22	6.8	2.4	1.3	7.6	2.0	2.0	91
11	9.4	2.8	6.3	1.3	1.0	3.3	2.4	1.3	2.0	2.0	2.0	2.0
12	5.0	2.8	17	1.3	1.3	3.3	10	1.3	2.0	2.0	2.0	2.0
13	4.4	2.8	3.7	1.0	1.3	2.4	3.8	1.0	2.0	2.0	2.0	2.0
14	3.8	2.8	1.6	.76	1.3	1.3	.76	1.3	2.0	2.0	2.0	2.0
15	4.4	3.3	1.3	1.3	1.3	1.3	.33	1.6	2.0	2.0	2.0	2.0
16	3.3	3.3	2.0	1.3	1.3	2.4	.16	2.0	2.0	2.0	2.0	2.0
17	2.0	3.3	2.0	1.0	1.3	3.3	.16	2.0	2.0	2.0	2.0	2.0
18	.55	2.8	2.8	1.3	1.3	3.3	.16	2.0	2.0	2.0	2.0	2.0
19	.76	3.3	2.8	1.3	1.2	3.3	.16	2.0	2.0	2.0	2.0	2.0
20	.55	2.4	2.8	1.0	1.1	3.3	.16	2.0	2.0	2.0	2.0	2.0
21	2.0	.76	2.8	1.0	1.0	3.3	.16	2.0	2.0	2.0	2.0	2.0
22	3.3	0	2.8	1.0	1.0	3.3	.16	2.0	2.0	2.0	2.0	2.0
23	3.3	0	2.8	1.2	1.0	3.3	.16	2.0	2.0	2.0	2.0	2.0
24	3.3	.96	2.8	1.3	1.0	3.8	.33	2.0	2.0	2.0	2.0	2.0
25	3.3	2.8	2.8	1.0	1.3	3.8	.33	2.0	2.0	2.0	2.0	2.0
26	3.3	2.8	2.8	1.0	1.3	3.8	.55	2.0	2.0	2.0	2.0	2.0
27	3.3	3.8	3.3	1.0	1.3	3.8	1.6	2.0	2.0	2.0	2.0	2.0
28	3.3	3.8	3.8	1.0	1.6	2.8	1.6	2.0	2.0	2.0	2.0	2.0
29	3.3	3.8	3.8	1.0	1.6	1.6	1.0	2.0	2.0	2.0	2.0	3.0
30	8.7	4.4	2.8	.54	---	1.6	1.6	2.0	2.0	2.0	2.0	2.0
31	6.3	---	3.8	0	---	2.8	---	2.0	---	2.0	2.0	---
TOTAL	113.36	84.72	116.1	50.50	353.60	149.9	58.68	54.3	65.6	62.0	62.0	150.0
MEAN	3.66	2.82	3.75	1.63	12.2	4.84	1.96	1.75	2.19	2.00	2.00	5.00
MAX	9.4	4.4	17	5.0	162	32	10	2.4	7.6	2.0	2.0	91
MIN	.55	0	1.3	0	0	1.3	.16	1.0	2.0	2.0	2.0	2.0
AC-FT	225	168	230	100	701	297	116	108	130	123	123	298
CAL YR 1975	TOTAL	1502.56	MEAN	4.12	MAX	192	MIN	0	AC-FT	2980		
WTR YR 1976	TOTAL	1320.76	MEAN	3.61	MAX	162	MIN	0	AC-FT	2620		

11105850 ARROYO SIMI NEAR SIMI, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1970 to September 1971, October 1973 to current year.
 SEDIMENT RECORDS: October 1968 to September 1971, October 1972 to current year.

COOPERATION.--Records of discharge were furnished by Ventura County Flood Control District.

REMARKS.--Some sediment-discharge values were estimated from a sediment-transport curve. Monthly totals for sediment discharge along with particle-size and temperature tables for 1975-76 water years are published in this report.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 29,000 mg/l Nov. 29, 1970; minimum daily mean, no flow for many days during some years.
 SEDIMENT DISCHARGE: Maximum daily, 169,000 tons (153,000 tonnes) Feb. 25, 1969; minimum daily, 0 tons on many days during some years.

MONTHLY AND ANNUAL SUMMARY OF SUSPENDED-SEDIMENT DISCHARGE,
 1975 AND 1976 WATER YEARS

MONTH	DISCHARGE (CFS)	SUSPENDED-SEDIMENT (TONS)
OCTOBER 1974...	65	507
NOVEMBER.....	35	1
DECEMBER.....	422	13900
JANUARY 1975...	34	3
FEBRUARY.....	177	2680
MARCH.....	410	10200
APRIL.....	149	1960
MAY.....	76	24
JUNE.....	97	13
JULY.....	75	13
AUGUST.....	80	8
SEPTEMBER.....	90	8
TOTAL FOR 1975 WATER YEAR...	1710	29533
OCTOBER 1975...	113	157
NOVEMBER.....	85	3
DECEMBER.....	116	220
JANUARY 1976...	50	1
FEBRUARY.....	354	8550
MARCH.....	150	939
APRIL.....	59	156
MAY.....	54	3
JUNE.....	66	59
JULY.....	62	3
AUGUST.....	62	5
SEPTEMBER.....	150	2500
TOTAL FOR 1976 WATER YEAR...	1321	12596

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

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT CHARGE (MG/L)	SUS- PENDE SEDI- MENT CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
DEC 28...	1200	20.0	16	3200	138	74	81	91	99	100

CALLEGUAS CREEK BASIN
11105850 ARROYO SIMI NEAR SIMI, CA--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.0	---	---	14.0	---	---	19.0	---	---	26.0	---	20.0
2	---	---	---	---	---	---	---	---	22.0	---	---	---
3	24.0	---	---	18.0	10.0	---	---	---	---	---	---	---
4	---	20.0	12.0	---	11.0	---	20.0	---	---	26.0	26.0	---
5	---	---	---	---	14.0	15.0	15.0	24.0	21.0	---	---	20.0
6	---	---	15.0	---	---	14.0	11.0	---	---	---	---	---
7	21.0	19.0	---	---	---	15.0	---	---	---	28.0	24.0	---
8	---	---	---	13.0	---	15.0	15.0	24.0	---	---	---	---
9	---	---	15.0	---	14.0	---	18.0	---	---	---	---	21.0
10	---	---	---	18.0	14.0	10.0	---	---	21.0	28.0	---	---
11	21.0	18.0	15.0	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	26.0	21.0
13	---	---	---	---	18.0	---	---	25.0	22.0	---	---	---
14	---	17.0	---	18.0	---	---	18.0	---	---	19.0	---	---
15	17.0	---	---	---	---	---	---	---	---	---	26.0	21.0
16	---	---	---	---	---	12.0	---	24.0	22.0	---	---	---
17	18.0	---	19.0	---	18.0	---	---	---	---	20.0	---	---
18	---	19.0	---	18.0	---	15.0	---	---	---	---	---	---
19	---	---	---	---	---	---	---	22.0	22.0	---	27.0	21.0
20	---	---	---	8.0	18.0	---	---	---	---	---	---	---
21	23.0	---	19.0	---	---	15.0	---	---	---	20.0	---	---
22	---	19.0	---	---	---	---	---	22.0	---	---	---	21.0
23	---	---	---	---	---	---	---	---	---	---	27.0	---
24	24.0	---	---	8.0	17.0	15.0	22.0	---	22.0	---	---	21.0
25	---	16.0	---	---	---	---	---	---	---	22.0	---	---
26	---	---	---	15.0	---	---	---	---	---	---	---	---
27	---	12.0	---	---	18.0	---	---	24.0	26.0	---	27.0	---
28	16.0	---	20.0	---	---	---	25.0	---	---	20.0	---	---
29	---	---	---	14.0	---	---	---	24.0	---	---	---	---
30	22.0	---	---	---	---	19.0	25.0	---	---	---	26.0	26.0
31	---	---	---	---	---	---	---	---	---	19.0	---	---
MEAN	21.0	17.5	16.5	14.5	15.0	14.5	19.0	23.5	22.5	23.0	26.0	21.5
WTR YR 1975	MEAN	19.5	MAX	28.0	MIN	8.0						

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	15.0	15.0	---	---	16.0	---	---	---
2	---	---	---	15.5	---	12.0	---	---	---	---	---	---
3	23.0	---	18.0	---	---	17.0	---	---	---	---	---	---
4	---	20.0	---	---	12.0	---	13.0	15.0	---	---	---	---
5	---	---	---	---	12.0	---	---	---	---	---	---	---
6	---	16.0	---	16.0	11.0	---	---	---	15.0	---	---	---
7	23.0	---	---	---	13.0	---	---	---	---	---	---	---
8	---	---	---	---	12.0	---	16.0	---	---	---	---	---
9	---	---	---	---	14.0	---	---	15.0	---	---	---	---
10	---	19.0	15.0	16.0	19.0	18.0	---	---	---	---	---	---
11	21.0	---	---	---	---	---	---	---	---	---	---	---
12	---	---	15.0	12.5	---	---	---	---	---	---	---	---
13	25.0	---	---	22.0	---	---	15.0	15.0	---	---	---	---
14	---	20.0	---	---	20.0	---	16.0	---	---	---	---	24.0
15	---	---	---	---	---	15.0	---	---	---	---	---	---
16	---	---	19.0	---	---	---	---	---	---	---	---	---
17	26.0	---	---	19.0	---	---	---	15.0	---	---	---	---
18	---	20.0	---	---	19.0	---	15.0	---	---	---	---	---
19	---	---	16.0	---	---	---	---	---	---	---	---	---
20	25.0	---	---	18.0	---	15.0	---	---	---	---	---	---
21	---	---	---	---	---	---	---	15.0	---	---	---	---
22	---	17.0	15.0	---	---	---	15.0	---	---	---	---	---
23	25.0	---	---	---	19.0	15.0	---	---	---	---	24.0	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	19.0	---	---	---	---	---	15.0	28.5	---	---	---
26	---	---	15.0	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	15.0	15.0	---	---	---	---	---
28	24.0	19.0	---	16.0	---	---	---	---	---	---	---	---
29	16.0	---	16.0	---	---	---	---	---	---	---	---	---
30	22.0	---	---	---	---	---	15.0	15.0	---	---	---	---
31	---	---	---	15.0	---	15.0	---	---	---	---	---	---
MEAN	23.0	19.0	16.0	16.5	15.0	15.0	15.0	15.0	20.0	---	---	---
WTR YR 1976	MEAN	17.5	MAX	28.5	MIN	11.0						

11106400 CONEJO CREEK ABOVE HIGHWAY 101, NEAR CAMARILLO, CA

LOCATION.--Lat 34°14'12", long 118°57'50", T.2 N., R.20 W., Ventura County, on left bank 2.6 mi (4.2 km) upstream from U.S. Highway 101, and 4.4 mi (7.1 km) northeast of Camarillo.

DRAINAGE AREA.--64.2 mi² (166.3 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 180 ft (55 m), from topographic map.

REMARKS.--No regulation or diversion above station.

COOPERATION.--Records were furnished by Ventura County Flood Control District; two discharge measurements were made and records were reviewed by Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,740 ft³/s (163 m³/s) Feb. 11, 1973, gage height, 7.35 ft (2.240 m); minimum daily, 0.13 ft³/s (0.004 m³/s) May 31, 1973.

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)	
Feb. 9	0900	470	13.3	2.83	0.863	Sept. 29	0600	*1290	36.5	4.51	1.375
Sept. 10	1300	560	15.9	3.33	1.015						

Minimum daily discharge, 6.1 ft³/s (0.17 m³/s) July 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	8.0	9.0	8.5	7.5	54	9.6	8.5	8.5	8.0	7.5	9.0
2	8.0	8.0	9.0	8.0	9.0	47	9.0	8.5	9.2	9.0	7.5	8.5
3	8.0	8.0	8.5	8.0	8.0	34	10	9.6	7.0	9.6	7.5	8.3
4	7.0	8.0	8.5	8.5	8.5	9.6	24	9.0	8.0	9.6	7.5	9.0
5	7.0	8.0	8.5	9.0	11	8.0	11	9.0	8.0	8.5	8.0	8.5
6	7.5	8.0	8.0	9.0	44	7.5	11	9.0	8.0	9.6	8.5	16
7	7.5	8.0	8.0	8.5	68	8.0	13	9.6	8.0	9.0	9.9	11
8	7.0	7.5	8.5	8.5	41	8.0	13	9.0	7.5	8.5	8.5	10
9	7.0	7.5	8.0	8.5	195	8.0	11	9.0	7.5	8.5	8.0	9.6
10	8.0	7.5	9.0	8.5	54	15	10	9.0	15	8.0	8.5	106
11	9.0	7.0	8.5	8.0	13	9.0	10	9.0	8.8	8.0	8.0	35
12	9.0	6.3	9.6	8.5	11	8.0	11	8.5	7.5	8.0	7.5	16
13	9.0	7.8	9.0	8.0	9.6	7.5	29	8.5	7.5	8.0	8.0	13
14	8.5	7.0	8.0	7.5	9.6	7.5	12	9.0	7.5	7.5	7.5	13
15	7.5	7.5	7.5	7.5	9.6	8.0	10	8.5	7.5	8.0	8.0	11
16	7.5	7.5	9.2	8.0	11	9.0	9.6	8.5	8.0	8.5	8.0	11
17	8.5	8.5	8.7	8.0	12	8.5	9.0	9.6	8.0	9.6	7.5	10
18	8.0	8.0	6.5	8.5	13	8.5	9.6	9.0	8.0	9.6	6.7	9.6
19	8.5	8.0	8.5	8.5	11	8.5	10	9.0	8.0	9.6	7.5	10
20	8.5	8.0	8.5	7.5	11	8.5	10	8.5	8.0	9.6	8.0	12
21	9.0	8.5	8.5	7.5	10	8.0	9.6	8.5	8.5	9.0	8.0	11
22	9.0	8.5	8.5	7.5	9.6	8.5	10	8.5	8.5	9.0	8.0	11
23	8.5	8.5	9.0	7.5	11	8.5	9.6	8.5	7.5	8.5	7.5	11
24	8.0	8.5	9.0	7.5	11	9.0	9.0	9.0	7.5	8.0	8.0	11
25	7.5	9.0	8.5	8.0	10	9.0	9.0	9.0	7.5	7.0	8.0	11
26	7.0	9.0	8.0	8.0	9.6	9.0	9.6	8.5	7.5	8.5	7.0	11
27	8.0	9.6	8.5	8.0	9.0	9.0	9.6	8.5	8.0	8.5	8.0	12
28	8.0	9.6	8.5	8.0	9.0	9.6	9.0	8.8	8.0	8.5	8.0	12
29	8.0	9.0	8.5	8.0	9.6	10	8.5	8.0	7.5	7.5	8.0	129
30	9.0	8.0	9.0	8.0	---	10	8.5	8.0	7.0	6.1	8.5	17
31	8.5	---	8.5	8.0	---	10	---	7.5	---	6.5	9.0	---
TOTAL	249.5	242.3	263.5	251.0	645.6	382.7	334.2	271.1	243.0	261.8	246.1	572.5
MEAN	8.05	8.08	8.50	8.10	22.3	12.3	11.1	8.75	8.10	8.45	7.94	19.1
MAX	9.0	9.6	9.6	9.0	195	54	29	9.6	15	9.6	9.9	129
MIN	7.0	6.3	6.5	7.5	7.5	7.5	8.5	7.5	7.0	6.1	6.7	8.3
AC-FT	495	481	523	498	1280	759	663	538	482	519	488	1140
CAL YR 1975 TOTAL	4255.7		MEAN 11.7	MAX 270	MIN 5.6	AC-FT 8440						
WTR YR 1976 TOTAL	3963.3		MEAN 10.8	MAX 195	MIN 6.1	AC-FT 7860						

CALLEGUAS CREEK BASIN

11106550 CALLEGUAS CREEK AT CAMARILLO STATE HOSPITAL, CA

LOCATION.--Lat 34°10'46", long 119°02'20", in Guadaluca Grant, Ventura County, on downstream side of county road bridge, 1.0 mi (1.6 km) northeast of Camarillo State Hospital, and 1.4 mi (2.3 km) downstream from Conejo Creek.

DRAINAGE AREA.--248 mi² (642 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 58.42 ft (17.806 m) above mean sea level (levels by Ventura County Flood Control District).

REMARKS.--No regulation above station. Pumping for irrigation in valley 1.0 mi (1.6 km) above station. Sustained flow from city of Thousand Oaks reclamation plant.

COOPERATION.--Records were furnished by Ventura County Flood Control District and reviewed by the Geological Survey.

AVERAGE DISCHARGE.--8 years, 23.2 ft³/s (0.657 m³/s), 16,810 acre-ft/yr (20.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,300 ft³/s (462 m³/s) Feb. 25, 1969, gage height, 8.50 ft (2.591 m); no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above revised base of 500 ft³/s (14.2 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Feb. 9	0930	*893	25.3	2.71	0.826
Sept. 29	1000	550	15.6	2.61	0.796

Minimum daily discharge, 0.40 ft³/s (0.011 m³/s) July 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	6.0	8.1	12	7.0	6.3	7.0	5.1	6.0	.40	3.4	4.2
2	7.0	6.0	10	7.0	6.0	20	7.0	6.0	6.0	.65	1.6	13
3	8.1	7.0	10	7.0	7.0	66	7.0	6.0	6.0	2.1	4.2	8.2
4	7.0	7.0	8.1	7.0	9.3	12	22	7.0	6.0	3.4	5.1	3.4
5	8.1	7.0	6.0	10	14	9.3	15	10	6.0	5.1	7.0	3.4
6	9.3	8.1	6.0	13	34	9.3	13	10	6.0	6.0	9.3	5.1
7	9.3	8.1	9.3	13	115	8.1	12	12	6.0	7.0	9.3	12
8	7.0	6.0	8.1	12	91	8.1	13	10	6.0	6.0	9.3	10
9	6.0	6.0	7.0	10	296	8.1	12	10	5.1	7.0	10	10
10	7.0	6.0	7.0	12	99	18	9.3	9.3	8.1	7.0	13	80
11	15	8.1	7.0	9.3	15	13	9.3	7.0	13	7.0	12	122
12	16	5.1	8.1	8.1	12	9.3	10	7.0	6.0	4.2	7.0	42
13	12	6.0	15	9.3	10	8.1	20	7.0	6.0	5.1	7.0	16
14	7.0	7.0	12	7.0	9.3	8.1	15	7.0	5.1	7.0	4.2	13
15	5.1	7.0	7.0	7.0	9.3	8.1	9.3	7.0	5.1	8.1	4.2	12
16	6.0	8.1	7.0	6.0	10	9.3	8.1	8.1	5.1	8.1	5.1	13
17	6.0	9.3	18	6.0	10	9.3	5.1	8.1	5.1	8.1	6.0	13
18	5.1	8.1	4.2	10	10	10	5.1	9.3	6.0	6.0	7.0	13
19	6.0	8.1	8.1	10	9.3	10	6.0	7.0	6.0	7.0	6.0	15
20	7.0	9.3	9.3	7.0	8.1	9.3	6.0	7.0	5.1	8.1	7.0	13
21	8.1	6.0	9.3	6.0	9.3	7.0	7.0	7.0	5.1	8.1	7.0	15
22	9.3	4.2	10	8.1	9.3	7.0	8.1	7.0	6.0	8.1	7.0	16
23	7.0	7.0	10	6.0	9.3	8.1	8.1	6.0	6.0	7.0	7.0	13
24	6.0	9.3	9.3	7.0	9.3	6.0	7.0	6.0	5.1	6.0	7.0	12
25	5.1	9.3	10	9.3	9.3	8.1	7.0	6.0	6.0	5.1	7.0	10
26	7.0	6.0	8.1	10	9.3	7.0	7.0	5.1	7.0	5.1	8.1	10
27	6.0	6.0	10	10	9.3	7.0	7.0	5.1	4.2	6.0	6.0	13
28	9.3	8.1	12	5.1	9.3	7.0	6.0	7.0	.65	9.3	7.0	17
29	8.1	8.1	9.3	7.0	9.3	8.1	6.0	6.0	1.1	9.3	4.2	231
30	8.1	8.1	7.0	7.0	---	8.1	6.0	6.0	.85	9.3	7.0	33
31	9.3	---	10	6.0	---	8.1	---	5.1	---	6.0	4.2	---
TOTAL	242.4	215.4	280.3	264.2	865.0	397.9	280.4	226.2	165.70	192.65	209.2	791.3
MEAN	7.82	7.18	9.04	8.52	29.8	12.8	9.35	7.30	5.52	6.21	6.75	26.4
MAX	16	9.3	18	13	296	66	22	12	13	9.3	13	231
MIN	5.1	4.2	4.2	5.1	6.0	6.0	5.1	5.1	.65	.40	1.6	3.4
AC-FT	481	427	556	524	1720	789	556	449	329	382	415	1570
CAL YR 1975	TOTAL	4938.70	MEAN 13.5	MAX 562	MIN 1.6	AC-FT 9800						
WTR YR 1976	TOTAL	4130.65	MEAN 11.3	MAX 296	MIN .40	AC-FT 8190						

CALLEGUAS CREEK BASIN

11106550 CALLEGUAS CREEK AT CAMARILLO STATE HOSPITAL, CA--Continued

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

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	5.1	5	.07	6.0	20	.32	8.1	30	.66
2	7.0	6	.11	6.0	20	.32	10	64	1.7
3	8.1	6	.13	7.0	20	.38	10	64	1.7
4	7.0	6	.11	7.0	20	.38	8.1	50	1.1
5	8.1	6	.13	7.0	20	.38	6.0	40	.65
6	9.3	10	.25	8.1	25	.55	6.0	40	.65
7	9.3	10	.25	8.1	25	.55	9.3	39	.98
8	7.0	10	.19	6.0	20	.32	8.1	39	.85
9	6.0	10	.16	6.0	20	.32	7.0	39	.74
10	7.0	10	.19	6.0	20	.32	7.0	40	.76
11	15	120	4.9	8.1	25	.55	7.0	40	.76
12	16	120	5.2	5.1	20	.28	8.1	40	.87
13	12	120	3.9	6.0	20	.32	15	100	4.1
14	7.0	60	1.1	7.0	20	.38	12	75	2.4
15	5.1	57	.78	7.0	20	.38	7.0	40	.76
16	6.0	55	.89	8.1	25	.55	7.0	40	.76
17	6.0	50	.81	9.3	30	.75	18	52	2.5
18	5.1	40	.55	8.1	25	.55	4.2	39	.44
19	6.0	35	.57	8.1	25	.55	8.1	39	.85
20	7.0	30	.57	9.3	30	.75	9.3	39	.98
21	8.1	25	.55	6.0	20	.32	9.3	36	.90
22	9.3	25	.63	4.2	20	.23	10	33	.89
23	7.0	25	.47	7.0	20	.38	10	30	.81
24	6.0	23	.37	9.3	30	.75	9.3	27	.68
25	5.1	23	.32	9.3	30	.75	10	24	.65
26	7.0	22	.42	6.0	20	.32	8.1	22	.48
27	6.0	22	.36	6.0	20	.32	10	30	.81
28	9.3	21	.53	8.1	30	.66	12	45	1.5
29	8.1	21	.46	8.1	30	.66	9.3	45	1.1
30	8.1	20	.44	8.1	30	.66	7.0	45	.85
31	9.3	20	.50	---	---	---	10	108	2.9
TOTAL	242.4	---	25.91	215.4	---	13.95	280.3	---	35.78
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	12	99	3.2	7.0	45	.85	63	838	276
2	7.0	90	1.7	6.0	42	.68	20	580	33
3	7.0	81	1.5	7.0	38	.72	66	706	261
4	7.0	72	1.4	9.3	40	1.0	12	75	2.4
5	10	64	1.7	14	116	7.3	9.3	50	1.3
6	13	56	2.0	34	1030	123	9.3	42	1.1
7	13	48	1.7	115	3130	1850	8.1	45	.98
8	12	40	1.3	91	783	316	8.1	45	.98
9	10	32	.86	296	6490	9660	8.1	50	1.1
10	12	23	.75	99	1090	495	18	55	2.7
11	9.3	23	.58	15	75	3.0	13	60	2.1
12	8.1	24	.52	12	54	1.7	9.3	65	1.6
13	9.3	25	.63	10	54	1.5	8.1	70	1.5
14	7.0	25	.47	9.3	50	1.3	8.1	75	1.6
15	7.0	26	.49	9.3	45	1.1	8.1	80	1.7
16	6.0	30	.49	10	45	1.2	9.3	100	2.5
17	6.0	34	.55	10	40	1.1	9.3	128	3.2
18	10	38	1.0	10	40	1.1	10	118	3.2
19	10	40	1.1	9.3	45	1.1	10	118	3.2
20	7.0	44	.83	8.1	45	.98	9.3	115	2.9
21	6.0	44	.71	9.3	49	1.2	7.0	115	2.2
22	8.1	45	.98	9.3	49	1.2	7.0	110	2.1
23	6.0	46	.75	9.3	49	1.2	8.1	110	2.4
24	7.0	48	.91	9.3	45	1.1	6.0	110	1.8
25	9.3	50	1.3	9.3	40	1.0	8.1	105	2.3
26	10	50	1.4	9.3	40	1.0	7.0	105	2.0
27	10	52	1.4	9.3	37	.93	7.0	105	2.0
28	5.1	52	.72	9.3	35	.88	7.0	101	1.9
29	7.0	54	1.0	9.3	35	.88	8.1	101	2.2
30	7.0	51	.96	---	---	---	8.1	101	2.2
31	6.0	48	.78	---	---	---	8.1	101	2.2
TOTAL	264.2	---	33.68	865.0	---	12478.02	397.9	---	627.36

11106550 CALLEGUAS CREEK AT CAMARILLO STATE HOSPITAL, CA--Continued

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

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	7.0	101	1.9	5.1	30	.41	6.0	40	.65
2	7.0	101	1.9	6.0	31	.50	6.0	30	.49
3	7.0	101	1.9	6.0	31	.50	6.0	25	.41
4	22	110	7.2	7.0	31	.59	6.0	25	.41
5	15	92	3.7	10	90	2.4	6.0	30	.49
6	13	90	3.2	10	90	2.4	6.0	30	.49
7	12	80	2.6	12	130	4.2	6.0	35	.57
8	13	70	2.5	10	130	3.5	6.0	40	.65
9	12	60	1.9	10	130	3.5	5.1	33	.45
10	9.3	50	1.3	9.3	130	3.3	8.1	54	1.2
11	9.3	40	1.0	7.0	130	2.5	13	45	1.6
12	10	33	.89	7.0	169	3.2	6.0	40	.65
13	20	50	2.7	7.0	140	2.6	6.0	34	.55
14	15	50	2.0	7.0	120	2.3	5.1	34	.47
15	9.3	40	1.0	7.0	100	1.9	5.1	30	.41
16	8.1	35	.77	8.1	88	1.9	5.1	25	.34
17	5.1	33	.45	8.1	88	1.9	5.1	15	.21
18	5.1	30	.41	9.3	44	1.1	6.0	12	.19
19	6.0	30	.49	7.0	42	.79	6.0	15	.24
20	6.0	30	.49	7.0	40	.76	5.1	20	.28
21	7.0	33	.62	7.0	38	.72	5.1	20	.28
22	8.1	50	1.1	7.0	40	.76	6.0	25	.41
23	8.1	50	1.1	6.0	42	.68	6.0	30	.49
24	7.0	50	.94	6.0	45	.73	5.1	38	.52
25	7.0	45	.85	6.0	48	.78	6.0	40	.65
26	7.0	45	.85	5.1	60	.83	7.0	40	.76
27	7.0	45	.85	5.1	98	1.3	4.2	40	.45
28	6.0	40	.65	7.0	75	1.4	.65	40	.07
29	6.0	40	.65	6.0	69	1.1	1.1	40	.12
30	6.0	35	.57	6.0	65	1.1	.85	40	.09
31	---	---	---	5.1	50	.69	---	---	---
TOTAL	280.4	---	46.48	226.2	---	50.34	165.70	---	14.59
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	.40	40	.04	3.4	15	.14	4.2	6	.07
2	.65	40	.07	1.6	15	.06	13	5	.18
3	2.1	40	.23	4.2	15	.17	8.2	4	.09
4	3.4	40	.37	5.1	18	.25	3.4	6	.06
5	5.1	40	.55	7.0	18	.34	3.4	7	.06
6	6.0	40	.65	9.3	18	.45	5.1	3	.04
7	7.0	40	.76	9.3	20	.50	12	3	.10
8	6.0	40	.65	9.3	25	.63	10	3	.08
9	7.0	35	.66	10	30	.81	10	3	.08
10	7.0	35	.66	13	40	1.4	80	776	935
11	7.0	30	.57	12	45	1.5	122	300	99
12	4.2	30	.34	7.0	40	.76	42	80	9.1
13	5.1	30	.41	7.0	35	.66	16	50	2.2
14	7.0	35	.66	4.2	30	.34	13	25	.88
15	8.1	39	.85	4.2	26	.29	12	12	.39
16	8.1	45	.98	5.1	31	.43	13	12	.42
17	8.1	56	1.2	6.0	25	.41	13	12	.42
18	6.0	50	.81	7.0	25	.47	13	14	.49
19	7.0	45	.85	6.0	20	.32	15	14	.57
20	8.1	40	.87	7.0	15	.28	13	14	.49
21	8.1	35	.77	7.0	10	.19	15	10	.41
22	8.1	30	.66	7.0	10	.19	16	10	.43
23	7.0	30	.57	7.0	10	.19	13	10	.35
24	6.0	25	.41	7.0	10	.19	12	8	.26
25	5.1	20	.28	7.0	10	.19	10	8	.22
26	5.1	15	.21	8.1	10	.22	10	8	.22
27	6.0	10	.16	6.0	4	.06	13	8	.28
28	9.3	10	.25	7.0	5	.09	17	15	.69
29	9.3	10	.25	4.2	5	.06	231	2660	2730
30	9.3	15	.38	7.0	6	.11	33	100	8.9
31	6.0	15	.24	4.2	7	.08	---	---	---
TOTAL	192.65	---	16.36	209.2	---	11.78	791.3	---	3791.48
YEAR	4130.65		17145.73						

11107745 SANTA CLARA RIVER ABOVE RAILROAD STATION, NEAR LANG, CA

LOCATION.--Lat 34°25'52", long 118°21'22", in SE¼SW¼NW¼ sec.16, T.4 N., R.14 W., Los Angeles County, on downstream side of railroad bridge, 1.1 mi (1.8 km) east of Lang Railroad Station, 1.9 mi (3.1 km) downstream from Agua Dulce Canyon, and 5.2 mi (8.4 km) northeast of Solemint.

DRAINAGE AREA.--157 mi² (407 km²).

PERIOD OF RECORD.--October 1949 to September 1968, October 1969 to current year. Monthly discharge only for 1950-70 published in WDR CA-71-1. Daily discharge available in historical computer files.

GAGE.--Water-stage recorder. Altitude of gage is 1,750 ft (533 m), from topographic map. Prior to Apr. 3, 1970, at site 0.4 mi (0.6 km) downstream at different datum.

REMARKS.--Records poor. No regulation above station. Small diversions for irrigation and recreation.

COOPERATION.--Records were furnished by Los Angeles County Flood Control District.

AVERAGE DISCHARGE.--26 years (water years 1950-69, 1970-76), 4.67 ft³/s (0.132 m³/s), 3,380 acre-ft/yr (4.17 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,910 ft³/s (167 m³/s), estimated, Feb. 25, 1969; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24 ft³/s (0.68 m³/s) Feb. 9, gage height, 2.42 ft (0.738 m); no flow many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	2.3	.60	.70	.50	.01		0
2					0	2.5	.40	.60	.40	.01		0
3					0	3.3	.40	.70	.40	.01		0
4					0	2.3	1.0	.70	.30	.01		0
5					0	1.4	.80	.70	.30	0		0
6					2.9	1.3	.60	.70	.20	0		0
7					1.8	1.2	.60	.70	.20	0		0
8					2.6	1.0	.70	.50	.30	0		0
9					11	.80	.70	.50	.40	0		0
10					4.8	1.0	.70	.60	.40	0		0
11					4.4	.80	.70	.60	.30	0		0
12					4.0	.70	.70	.60	.20	0		0
13					3.6	.80	1.5	.60	.20	0		0
14					3.2	1.1	.70	.60	.20	0		0
15					2.8	.90	.50	.60	.20	0		0
16					2.5	.60	.40	.50	.20	0		0
17					2.1	.60	.40	.40	.20	0		0
18					1.7	.60	.60	.40	.10	0		0
19					1.3	.60	.60	.30	.10	0		0
20					.90	.90	.50	.30	.10	0		0
21					.90	.90	.50	.30	.10	0		0
22					1.1	.70	.50	.40	.10	0		0
23					1.0	.60	.50	.40	.10	0		0
24					.70	.50	.60	.60	.10	0		0
25					.50	.50	.80	.60	.10	0		.60
26					.50	.50	.80	.60	.10	0		0
27					.50	.50	.80	.50	.10	0		0
28					.50	.80	.80	.50	.10	0		0
29					.60	.70	.70	.50	.10	0		0
30					---	.60	.70	.40	.10	0		0
31		---			---	.60	---	.50	---	0		---
TOTAL	0	0	0	0	55.90	31.60	19.80	16.60	6.20	.04	0	.60
MEAN	0	0	0	0	1.93	1.02	.66	.54	.21	.001	0	.020
MAX	0	0	0	0	11	3.3	1.5	.70	.50	.01	0	.60
MIN	0	0	0	0	0	.50	.40	.30	.10	0	0	0
AC-FT	0	0	0	0	111	63	39	33	12	.08	0	1.2
CAL YR 1975	TOTAL	354.90	MEAN	.97	MAX	13	MIN	0	AC-FT	704		
WTR YR 1976	TOTAL	130.74	MEAN	.36	MAX	11	MIN	0	AC-FT	259		

SANTA CLARA RIVER BASIN

11107922 SOUTH FORK SANTA CLARA RIVER AT SAUGUS, CA

LOCATION.--Lat 34°24'55", long 118°32'34", in San Francisco Grant, Los Angeles County, on upstream side of Magic Mountain Parkway, 800 ft (244 m) west of San Fernando Road in Saugus.

DRAINAGE AREA.--43.4 mi² (112.4 km²).

PERIOD OF RECORD.--October 1975 to September 1976. September 1947 to September 1975 in files of Los Angeles County Flood Control District.

GAGE.--Water-stage recorder. Altitude of gage is 1150 ft (351 m) from topographic map.

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

COOPERATION.--Records were furnished by Los Angeles County Flood Control District.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 6,800 ft³/s (193 m³/s) Jan. 15, 1952, gage height unknown, from information by Los Angeles County Flood Control District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 586 ft³/s (16.6 m³/s) Feb. 9, gage height, 4.89 ft (1.490 m); no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	0				0	2.0	.10
2					0	10				0	1.8	0
3					0	1.3				0	1.8	0
4					0	0				0	1.8	0
5					0	0				0	2.0	2.0
6					25	0				0	1.3	1.5
7					41	0				0	0	0
8					35	0				0	0	0
9					105	0				0	0	0
10					3.5	0				0	.40	52
11					0	0				0	1.5	1.2
12					0	0				0	.80	0
13					0	0				0	1.3	0
14					0	0				0	2.0	0
15					0	0				0	1.2	0
16					0	0				0	0	0
17					0	0				0	0	0
18					0	0				0	0	0
19					0	0				0	0	0
20					0	0				0	0	0
21					0	0				0	0	0
22					0	4.5				0	0	0
23					0	0				0	0	0
24					0	0				0	0	0
25					0	0				0	0	0
26					0	0				0	0	0
27					0	0				.60	0	0
28					0	0				1.2	0	0
29					0	0				.50	0	0
30					---	0				.90	0	0
31		---			---	0	---		---	1.2	0	---
TOTAL	0	0	0	0	209.5	15.8	0	0	0	4.40	17.90	56.80
MEAN	0	0	0	0	7.22	.51	0	0	0	.14	.58	1.89
MAX	0	0	0	0	105	10	0	0	0	1.2	2.0	52
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	416	31	0	0	0	8.7	36	113
WTR YR 1976	TOTAL	304.40	MEAN	.83	MAX	105	MIN	0	AC-FT	604		

11108145 CASTAIC CREEK NEAR SAUGUS, CA

LOCATION.--Lat 34°25'42", long 118°37'40", in San Francisco Grant, Los Angeles County, on downstream side of bridge on State Highway 126, 0.6 mi (1.0 km) upstream from mouth, 4.6 mi (7.4 km) southwest of Castaic, 5.1 mi (8.2 km) northwest of Saugus, and 7 mi (11.3 km) upstream from Castaic Reservoir.

DRAINAGE AREA.--202 mi² (523 km²).

PERIOD OF RECORD.--December 1945 to current year. Monthly discharge only for 1947-70 published in WDR CA-71. Daily discharge available in historical computer files.

GAGE.--Water-stage recorder. Datum of gage is 952.05 ft (290.185 m) above mean sea level (levels by Los Angeles County Flood Control District).

REMARKS.--Records fair. Flow regulated beginning in 1972 by Castaic Reservoir, capacity, 350,000 acre-ft (432 hm³). Imported water from California Water Project stored and released at Castaic Dam.

COOPERATION.--Records were furnished by Los Angeles County Flood Control District.

AVERAGE DISCHARGE.--25 years (water years 1947-71), before regulation by Castaic Reservoir, 12.2 ft³/s (0.346 m³/s), 8,840 acre-ft/yr (10.9 hm³/yr).

5 years (water years 1972-76), 7.81 ft³/s (0.221 m³/s), 5,660 acre-ft/yr (6.98 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,300 ft³/s (547 m³/s) Feb. 25, 1969, result of slope-area measurement of maximum flow; no flow for all or long periods in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 40 ft³/s (1.13 m³/s) Feb. 9, gage height, 2.07 ft (0.631 m); no flow many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.40	.10	.30	0	.60	.60	.01				0
2	0	.30	.10	.30	0	.60	.50	.01				0
3	0	.30	.10	.40	0	.80	.60	.01				0
4	0	.40	.10	.40	0	.60	.60	.01				0
5	0	.30	.10	.40	.03	.60	.50	0				0
6	.10	.30	.10	.40	.30	.60	.40	0				0
7	.10	.30	.10	.50	.80	.60	.50	0				0
8	0	.30	.10	.40	2.3	.60	.50	0				0
9	0	.30	.20	.40	15	.60	.40	0				0
10	0	.30	.20	.30	7.7	.60	.30	0				.10
11	0	.30	.20	.30	1.3	.60	.30	0				1.8
12	.01	.30	.10	.30	.80	.60	.30	0				.10
13	0	.30	.10	.30	.70	.60	.30	0				0
14	0	.30	.10	.20	.60	.60	.30	0				0
15	0	.30	.10	.20	.60	.70	.30	0				0
16	0	.30	.20	.20	.60	.70	.30	0				0
17	0	.30	.20	.20	.50	.70	.30	0				0
18	.02	.30	.20	.20	.50	.80	.30	0				0
19	.10	.20	.20	.10	.50	.80	.20	0				0
20	0	.20	.20	.10	.50	.70	.10	0				0
21	0	.10	.20	.10	.50	.70	.02	0				0
22	0	.10	.30	.10	.50	.70	.03	0				0
23	0	.10	.30	.10	.60	.80	.01	0				0
24	0	.20	.40	.03	.60	.80	.01	0				0
25	0	.40	.30	.02	.50	.70	.04	0				0
26	0	.10	.30	0	.60	.60	.01	0				0
27	0	.10	.30	.01	.50	.60	.10	0				0
28	.10	.10	.30	0	.50	.70	.10	0				0
29	.20	.10	.30	0	.50	.70	.10	0				0
30	.30	.10	.30	0	---	.80	.01	0				0
31	.40	---	.30	.03	---	.70	---	0	---			---
TOTAL	1.33	7.40	6.10	6.29	37.53	20.80	8.03	.04	0	0	0	2.00
MEAN	.043	.25	.20	.20	1.29	.67	.27	.001	0	0	0	.067
MAX	.40	.40	.40	.50	15	.80	.60	.01	0	0	0	1.8
MIN	0	.10	.10	0	0	.60	.01	0	0	0	0	0
AC-FT	2.6	15	12	12	74	41	16	.08	0	0	0	4.0
CAL YR 1975 TOTAL	1021.83			MEAN 2.80	MAX 88	MIN 0	AC-FT 2030					
WTR YR 1976 TOTAL	89.52			MEAN .24	MAX 15	MIN 0	AC-FT 178					

SANTA CLARA RIVER BASIN

11108500 SANTA CLARA RIVER AT LOS ANGELES-VENTURA COUNTY LINE, CA

LOCATION.--Lat 34°23'59", long 118°42'14", in San Francisco Grant, Ventura County, on downstream end of old diversion weir on right bank, on private road 0.2 mi (0.3 km) south of Highway 126, 0.8 mi (1.3 km) west of Los Angeles-Ventura County line, and 6.4 mi (10.3 km) west of intersection of Highway 126 and Interstate 5.

DRAINAGE AREA.--644 mi² (1,668 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 794.93 ft (242.295 m) above mean sea level.

REMARKS.--Records fair. Base flow affected by pumping from wells along stream for irrigation. Flow partly regulated since January 1972 by Castaic Reservoir, capacity, 324,000 acre-ft (399 hm³). Imported water from California Water Project stored and released at Castaic Dam.

AVERAGE DISCHARGE.--24 years, 35.7 ft³/s (1.011 m³/s), 25,860 acre-ft/yr (31.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,800 ft³/s (1,950 m³/s) Jan. 25, 1969, gage height, 19.01 ft (5.794 m), from rating curve extended above 9,200 ft³/s (261 m³/s) on basis of field estimate of maximum flow; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,700 ft³/s (48.1 m³/s) Feb. 9 (1400 hrs), gage height, 5.43 ft (1.655 m), no other peak above base of 750 ft³/s (21.2 m³/s); minimum daily, 1.9 ft³/s (0.054 m³/s) Aug. 30 to Sept. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	13	18	22	17	22	19	10	9.8	4.8	2.7	1.9
2	10	13	16	21	18	22	18	10	8.6	5.4	2.5	2.0
3	9.9	13	16	21	18	31	18	11	8.2	5.1	2.5	2.2
4	9.8	13	17	22	17	22	18	11	8.6	4.7	2.5	2.2
5	9.5	14	17	21	17	21	18	12	8.2	4.6	2.5	2.2
6	9.5	15	17	19	41	22	18	13	8.2	4.5	2.5	2.7
7	9.6	15	16	19	52	23	17	14	9.0	4.4	2.5	4.1
8	9.2	15	17	19	62	24	19	13	9.4	4.3	2.5	3.6
9	9.2	16	16	20	216	24	17	13	9.4	4.1	2.5	3.1
10	9.6	18	14	19	37	28	17	12	9.8	4.0	2.5	92
11	10	18	14	20	25	24	16	12	9.4	3.9	2.5	61
12	10	18	16	20	25	24	16	12	8.6	3.8	2.5	17
13	10	18	16	19	25	24	18	11	8.6	3.7	2.5	15
14	9.9	18	14	19	25	24	16	10	8.6	3.6	2.5	15
15	9.5	18	16	20	25	24	16	9.8	8.2	3.3	2.5	15
16	10	19	16	20	24	24	15	9.8	7.8	3.6	2.5	14
17	9.7	19	16	19	24	24	14	11	8.2	3.6	2.5	14
18	10	18	16	20	24	23	16	11	7.8	3.3	2.5	14
19	9.7	17	16	20	24	22	14	9.8	7.8	3.3	2.5	14
20	9.5	17	16	20	24	21	13	9.8	7.4	3.1	2.5	16
21	9.7	16	16	20	23	19	13	9.0	7.4	3.1	2.5	15
22	10	16	16	20	23	37	14	9.0	7.0	2.9	2.5	16
23	11	16	16	21	22	35	14	9.0	6.7	3.1	2.5	16
24	11	16	17	21	22	21	14	9.4	6.7	2.9	2.5	15
25	12	16	18	20	21	21	13	9.4	6.7	2.9	2.5	15
26	11	16	18	19	21	21	13	9.8	6.7	2.9	2.5	16
27	12	16	19	18	21	21	13	9.4	6.4	2.9	2.4	16
28	12	17	18	18	21	19	11	10	5.1	2.7	2.2	17
29	13	17	19	18	21	19	11	10	5.4	2.7	2.0	17
30	14	17	19	17	---	19	10	10	5.4	2.7	1.9	15
31	13	---	21	17	---	19	---	10	---	2.7	1.9	---
TOTAL	323.3	488	517	609	935	724	459	330.2	235.1	112.6	75.6	469.0
MEAN	10.4	16.3	16.7	19.6	32.2	23.4	15.3	10.7	7.84	3.63	2.44	15.6
MAX	14	19	21	22	216	37	19	14	9.8	5.4	2.7	92
MIN	9.2	13	14	17	17	19	10	9.0	5.1	2.7	1.9	1.9
AC-FT	641	968	1030	1210	1850	1440	910	655	466	223	150	930
CAL YR 1975	TOTAL	7446.5	MEAN 20.4	MAX 428	MIN 7.6	AC-FT 14770						
WTR YR 1976	TOTAL	5277.8	MEAN 14.4	MAX 216	MIN 1.9	AC-FT 10470						

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969 to current year.
 CHEMICAL ANALYSIS: Water years 1969, 1972 to current year.
 WATER TEMPERATURES: Water years 1969 to current year.
 SEDIMENT RECORDS: Water years 1969 to current year.

PERIOD OF DAILY RECORD.--
 SPECIFIC CONDUCTANCE: June 1969 to current year.
 pH: June to September 1969.
 CHLORIDE: June to September 1969.
 WATER TEMPERATURES: October 1968 to current year.
 SEDIMENT RECORDS: October 1968 to current year.

INSTRUMENTATION.--Water-quality monitor from June to September 1969. Specific conductance recorder since June 1969.

REMARKS.--The letter "A" following a date indicates chemical-quality data furnished by California Department of Water Resources. Missing specific conductance data due to probe or recorder malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
 SPECIFIC CONDUCTANCE: Maximum, 3,600 micromhos Mar. 31, 1971; minimum recorded, 665 micromhos Jan. 18, 1973.
 SEDIMENT CONCENTRATIONS: Maximum daily mean, 27,400 mg/l Nov. 29, 1970; minimum daily mean, 4 mg/l Sept. 9, 1976.
 SEDIMENT DISCHARGE: Maximum daily, 3,300,000 tons (2,990,000 tonnes), estimated, Feb. 25, 1969; minimum daily, 0.03 ton (0.03 tonne) Sept. 9, 1976.

EXTREMES FOR CURRENT YEAR.--
 SPECIFIC CONDUCTANCE: Maximum recorded, 2,490 micromhos Aug. 30; minimum recorded, 788 micromhos Sept. 10.
 SEDIMENT CONCENTRATIONS: Maximum daily mean, 4,020 mg/l Sept. 11; minimum daily mean, 4 mg/l Sept. 9.
 SEDIMENT DISCHARGE: Maximum daily, 3,970 tons (3,600 tonnes) Feb. 9; minimum daily, 0.03 ton (0.03 tonnes) Sept. 9.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)
OCT												
20...	1235	10	1680	8.0	2	--	8	650	340	170	54	140
NOV												
17... A	0945	16	1720	8.0	5	9.0	--	630	--	--	--	--
19...	1330	17	1730	7.9	10	--	8	650	340	170	54	160
DEC												
11...	1025	17	1640	8.0	25	--	72	510	170	130	44	150
JAN												
28...	0810	20	1710	7.8	5	--	13	640	340	170	52	140
FEB												
03... A	1330	15	1500	7.9	19	8.0	--	661	--	--	--	--
06...	1145	92	945	--	--	--	--	--	--	--	--	--
09...	1220	200	880	--	--	--	--	--	--	--	--	--
27...	0930	25	1720	7.8	5	--	11	670	370	170	59	150
MAR												
24...	1005	20	1730	7.8	8	--	11	680	390	180	56	140
APR												
20... A	1230	14	1725	8.2	2	8.9	--	598	--	--	--	--
21...	1220	17	1780	8.3	1	--	8	690	390	170	64	160
MAY												
28...	1245	9.6	1800	--	1	--	18	680	390	170	63	160
JUN												
22...	1310	6.6	1920	8.2	1	--	16	720	420	180	66	180
JUL												
27... A	1430	3.1	2020	8.2	2	7.4	--	771	--	--	--	--

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT 20...	34.0	2.9	.07	.84	.91	3.8	17	1.2	580	5.7	.40
NOV 17... A	52.4	--	--	--	--	--	--	--	--	--	--
19...	58.3	3.0	.04	2.0	2.0	5.0	22	.97	770	6.9	--
DEC 11...	49.1	6.8	1.3	7.1	8.4	15	67	5.9	1500	23	8.0
JAN 28...	67.0	4.0	.41	1.6	2.0	6.0	27	1.7	830	5.9	.10
FEB 03... A	51.2	--	--	--	--	--	--	--	--	--	--
06...	164	--	--	--	--	--	--	--	--	--	--
09...	334	--	--	--	--	--	--	--	--	--	--
27...	87.8	2.9	.02	.46	.48	3.4	15	.75	680	8.5	.00
MAR 24...	68.0	2.4	.04	.45	.49	2.9	13	.60	660	4.4	.00
APR 20... A	51.3	--	--	--	--	--	--	--	--	--	--
21...	63.8	1.8	.02	.00	N.02	1.8	8.0	.45	750	3.0	.00
MAY 28...	35.8	1.3	.05	.19	.24	1.5	6.8	.42	770	1.9	.00
JUN 22...	25.8	1.2	.04	.11	.15	1.4	6.0	.30	580	2.2	.00
JUL 27... A	13.8	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	PERCENT SODIUM	SODIUM AD-SORPTION RATIO	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
OCT 20...	32	2.4	6.4	369	0	303	5.9	520	90	.6	1260	1.71
NOV 17... A	--	--	--	--	--	--	--	493	85	--	1213	1.65
19...	35	2.7	6.6	375	0	308	7.6	540	92	.6	1270	1.73
DEC 11...	39	2.9	9.8	415	0	340	6.6	340	110	.5	1070	1.46
JAN 28...	32	2.4	6.9	368	0	302	9.3	500	90	.6	1240	1.69
FEB 03... A	--	--	--	--	--	--	--	502	85	--	1265	1.72
06...	--	--	--	--	--	--	--	--	--	--	662	.90
09...	--	--	--	--	--	--	--	--	--	--	618	.84
27...	33	2.5	5.8	366	0	300	9.3	540	98	.6	1300	1.77
MAR 24...	31	2.3	6.2	358	0	294	9.1	520	85	.5	1260	1.71
APR 20... A	--	--	--	--	--	--	--	574	90	--	1357	1.85
21...	33	2.7	6.5	369	--	303	3.0	600	90	.7	1390	1.89
MAY 28...	34	2.7	6.0	356	--	292	--	610	96	.7	1380	1.88
JUN 22...	35	2.9	6.0	364	2	302	3.7	620	110	.9	1450	1.97
JUL 27... A	--	--	--	--	--	--	--	750	115	--	1651	2.25

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL PCB (UG/L)	TOTAL ALDRIN (UG/L)	TOTAL CHLOR-DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTA-CHLOR (UG/L)
JUN 22...	1310	.0	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL METHYL TRI-THION (UG/L)	TOTAL PARA-THION (UG/L)	POLY-CHLORINATED NAPHTHALENES (UG/L)	TOTAL TOX-APHENE (UG/L)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
JUN 22...	.00	.00	.00	.00	.00	.00	.00	0	.00	.00	.00	.00

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	HEXA-VALENT CHROMIUM (CR6) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)
OCT 20...	1235	2	--	0	--	70	--	--	--
NOV 19...	1330	2	--	20	--	10	--	--	--
DEC 11...	1025	2	--	<10	--	0	--	--	--
JAN 28...	0810	2	--	<10	--	0	--	--	--
FEB 27...	0930	2	--	<10	--	0	--	--	--
MAR 24...	1005	2	--	<10	--	0	--	--	--
APR 21...	1220	1	--	<10	--	10	--	--	--
MAY 25... A	1130	--	0	--	0	--	0	0	0
MAY 28...	1245	1	--	0	--	10	--	--	--
JUN 22...	1310	2	--	0	--	20	--	--	--

DATE	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL SELENIUM (SE) (UG/L)
OCT 20...	280	--	100	--	70	--	.0	--	2
NOV 19...	2600	--	<100	--	100	--	.0	--	3
DEC 11...	970	--	<100	--	180	--	.4	--	5
JAN 28...	1600	--	<100	--	210	--	.0	--	3
FEB 27...	630	--	<100	--	150	--	.2	--	4
MAR 24...	2400	--	<100	--	130	--	.0	--	2
APR 21...	240	--	<100	--	90	--	.0	--	3
MAY 25... A	--	10	--	0	--	0	--	0	--
MAY 28...	1400	--	0	--	100	--	.7	--	--
JUN 22...	960	--	10	--	70	--	.1	--	3

SANTA CLARA RIVER BASIN

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

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	1750	1600	1710	1720	1660	1700	1740	1650	1720
2	---	---	---	1730	1580	1700	1730	1630	1690	1740	1620	1710
3	---	---	---	1730	1580	1680	1750	1620	1710	1740	1620	1710
4	---	---	---	1730	1550	1690	1760	1710	1740	1710	1600	1680
5	---	---	---	1730	1600	1690	1770	1710	1740	1700	1610	1670
6	---	---	---	1720	1650	1690	1780	1690	1750	1700	1580	1670
7	---	---	---	1730	1580	1700	1760	1670	1720	1700	1580	1670
8	---	---	---	1720	1610	1700	1750	1650	1710	1720	1600	1670
9	---	---	---	1740	1590	1710	1750	1610	1680	1710	1610	1670
10	1700	1630	1660	1720	1650	1700	1720	1590	1660	1720	1610	1690
11	1660	1610	1630	1720	1610	1700	1720	1640	1690	1740	1620	1690
12	1680	1580	1640	1710	1610	1690	1740	1670	1700	1710	1600	1670
13	1660	1610	1630	1720	1610	1700	1740	1640	1720	1700	1570	1650
14	1670	1610	1650	1720	1680	1710	1760	1680	1740	1690	1580	1650
15	1670	1590	1650	1720	1680	1710	1780	1670	1740	1680	1570	1640
16	1670	1560	1640	1710	1670	1690	1770	1640	1740	1680	1590	1650
17	1670	1580	1650	1690	1650	1680	1780	1630	1750	1710	1580	1660
18	1680	1630	1670	1730	1650	1700	1790	1610	1760	1720	1620	1690
19	1700	1600	1670	1740	1660	1730	1800	1650	1770	1720	1630	1680
20	1690	1610	1670	1740	1660	1720	1800	1680	1760	1740	1610	1680
21	1710	1630	1680	1740	1690	1720	1770	1650	1740	1740	1600	1710
22	1710	1640	1680	1750	1670	1720	1760	1650	1730	1780	1630	1710
23	1700	1600	1680	1730	1650	1700	1800	1630	1750	1730	1630	1700
24	1700	1590	1680	1720	1640	1690	1820	1650	1780	1740	1630	1700
25	1700	1540	1670	1720	1650	1700	1810	1640	1760	1750	1620	1710
26	1710	1560	1670	1730	1640	1690	1800	1660	1760	1760	1590	1700
27	1680	1550	1640	1730	1650	1700	1800	1660	1750	1750	1570	1690
28	1690	1540	1660	1740	1680	1720	1770	1650	1730	1770	1600	1710
29	1720	1560	1670	1750	1680	1730	1790	1650	1750	1790	1610	1740
30	1730	1650	1700	1750	1680	1730	1780	1660	1720	1780	1610	1720
31	1760	1590	1720	---	---	---	1740	1650	1720	1800	1540	1690
MONTH	1760	1540	1660	1750	1550	1700	1820	1590	1730	1800	1540	1690

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1790	1470	1610	1810	1620	1750	1680	1650	1670	1760	1700	1730
2	1690	1510	1630	1830	1450	1700	1690	1660	1670	1770	1710	1740
3	1690	1300	1440	---	---	---	1710	1630	1680	1750	1710	1740
4	1600	1410	1480	---	---	---	1710	1630	1680	1790	1740	1760
5	1710	1580	1660	---	---	---	1760	1710	1730	1780	1730	1750
6	---	---	---	---	---	---	1770	1710	1750	1760	1700	1740
7	---	---	---	---	---	---	1780	1740	1760	1740	1650	1710
8	---	---	---	---	---	---	1770	1730	1750	1770	1730	1750
9	---	---	---	---	---	---	1780	1740	1760	1770	1700	1740
10	---	---	---	1690	1540	1640	1790	1740	1770	1770	1720	1750
11	---	---	---	1710	1680	1690	1790	1770	1780	1790	1740	1760
12	---	---	---	1710	1680	1690	1820	1690	1770	1860	1750	1800
13	---	---	---	1700	1680	1690	1780	1670	1740	2010	1840	1910
14	---	---	---	1700	1680	1690	1850	1690	1790	---	---	---
15	---	---	---	1710	1680	1690	1850	1720	1780	---	---	---
16	---	---	---	1710	1670	1690	1930	1630	1800	1990	1900	1930
17	---	---	---	1700	1670	1680	1930	1610	1790	1890	1790	1840
18	---	---	---	1700	1660	1680	1850	1620	1750	1900	1790	1840
19	---	---	---	1700	1670	1690	1860	1540	1740	1950	1800	1890
20	---	---	---	1730	1630	1700	1830	1670	1760	1950	1870	1910
21	---	---	---	1750	1550	1690	1800	1630	1720	1940	1880	1910
22	---	---	---	---	---	---	1730	1690	1710	1930	1870	1900
23	---	---	---	---	---	---	1770	1680	1720	1900	1820	1860
24	---	---	---	---	---	---	1780	1670	1740	1850	1790	1830
25	1840	1740	1810	---	---	---	1890	1750	1810	1890	1800	1840
26	1810	1670	1770	---	---	---	---	---	---	1920	1790	1840
27	1820	1740	1780	---	---	---	---	---	---	1880	1820	1850
28	1820	1690	1770	---	---	---	1760	1660	1690	1840	1780	1810
29	1810	1650	1750	---	---	---	1740	1690	1710	1860	1790	1820
30	---	---	---	---	---	---	1750	1700	1730	1820	1770	1800
31	---	---	---	---	---	---	---	---	---	1820	1760	1790
MONTH	1840	1300	1670	1830	1450	1690	1930	1540	1740	2010	1650	1810

SANTA CLARA RIVER BASIN

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

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

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	50	1.4	13	55	1.9	18	53	2.6
2	10	35	.94	13	46	1.6	16	53	2.3
3	9.9	26	.69	13	37	1.3	16	54	2.3
4	9.8	26	.69	13	28	.98	17	55	2.5
5	9.5	27	.69	14	32	1.2	17	56	2.6
6	9.5	27	.69	15	53	2.1	17	56	2.6
7	9.6	28	.73	15	76	3.1	16	56	2.4
8	9.2	29	.72	15	78	3.2	17	56	2.6
9	9.2	30	.75	16	71	3.1	16	56	2.4
10	9.6	33	.86	18	50	2.4	14	57	2.2
11	10	32	.86	18	37	1.8	14	59	2.2
12	10	31	.84	18	37	1.8	16	71	3.1
13	10	29	.78	18	53	2.6	16	84	3.6
14	9.9	28	.75	18	68	3.3	14	81	3.1
15	9.5	25	.64	18	73	3.5	16	78	3.4
16	10	22	.59	19	79	4.1	16	75	3.2
17	9.7	20	.52	19	85	4.4	16	73	3.2
18	10	18	.49	18	90	4.4	16	66	2.9
19	9.7	16	.42	17	80	3.7	16	59	2.5
20	9.5	15	.38	17	70	3.2	16	53	2.3
21	9.7	14	.37	16	59	2.5	16	55	2.4
22	10	14	.38	16	59	2.5	16	53	2.3
23	11	20	.59	16	58	2.5	16	69	3.0
24	11	30	.89	16	58	2.5	17	74	3.4
25	12	44	1.4	16	57	2.5	18	67	3.3
26	11	58	1.7	16	56	2.4	18	55	2.7
27	12	72	2.3	16	55	2.4	19	49	2.5
28	12	84	2.7	17	50	2.3	18	49	2.4
29	13	67	2.4	17	45	2.1	19	49	2.5
30	14	50	1.9	17	49	2.2	19	49	2.5
31	13	64	2.2	---	---	---	21	57	3.2
TOTAL	323.3	---	31.26	488	---	77.58	517	---	84.2
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	22	57	3.4	17	132	6.1	22	402	24
2	21	56	3.2	18	134	6.5	22	402	24
3	21	55	3.1	18	136	6.6	31	662	91
4	22	55	3.3	17	136	6.2	22	180	11
5	21	54	3.1	17	136	6.2	21	129	7.3
6	19	54	2.8	41	2420	431	22	152	9.0
7	19	60	3.1	52	1410	576	23	175	11
8	19	66	3.4	62	1360	432	24	198	13
9	20	73	3.9	216	3020	3970	24	220	14
10	19	79	4.1	37	689	86	28	250	19
11	20	85	4.6	25	430	29	24	180	12
12	20	91	4.9	25	353	24	24	145	9.4
13	19	97	5.0	25	310	21	24	125	8.1
14	19	87	4.5	25	299	20	24	120	7.8
15	20	77	4.2	25	272	18	24	105	6.8
16	20	67	3.6	24	247	16	24	94	6.1
17	19	71	3.6	24	219	14	24	90	5.8
18	20	75	4.1	24	205	13	23	81	5.0
19	20	79	4.3	24	200	13	22	65	3.9
20	20	83	4.5	24	233	15	21	35	2.0
21	20	87	4.7	23	289	18	19	35	1.8
22	20	91	4.9	23	284	18	37	682	162
23	21	100	5.7	22	272	16	35	779	126
24	21	162	9.2	22	247	15	21	263	15
25	20	189	10	21	208	12	21	249	14
26	19	216	11	21	175	9.9	21	230	13
27	18	242	12	21	152	8.6	21	214	12
28	18	215	10	21	212	12	19	197	10
29	18	187	9.1	21	291	16	19	181	9.3
30	17	160	7.3	---	---	---	19	165	8.5
31	17	132	6.1	---	---	---	19	150	7.7
TOTAL	609	---	166.7	935	---	5835.1	724	---	669.5

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

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

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	19	128	6.6	10	15	.41	9.8	42	1.1
2	18	112	5.4	10	24	.65	8.6	45	1.0
3	18	95	4.6	11	32	.95	8.2	45	1.0
4	18	93	4.5	11	38	1.1	8.6	48	1.1
5	18	78	3.8	12	45	1.5	8.2	50	1.1
6	18	65	3.2	13	43	1.5	8.2	48	1.1
7	17	50	2.3	14	41	1.5	9.0	46	1.1
8	19	53	2.7	13	39	1.4	9.4	44	1.1
9	17	65	3.0	13	39	1.4	9.4	38	.96
10	17	76	3.5	12	36	1.2	9.8	38	1.0
11	16	92	4.0	12	33	1.1	9.4	38	.96
12	16	115	5.0	12	30	.97	8.6	38	.88
13	18	124	6.0	11	29	.86	8.6	38	.88
14	16	117	5.1	10	28	.76	8.6	38	.88
15	16	111	4.8	9.8	28	.74	8.2	45	1.0
16	15	100	4.1	9.8	26	.69	7.8	45	.95
17	14	82	3.1	11	25	.74	8.2	47	1.0
18	16	59	2.5	11	23	.68	7.8	47	.99
19	14	40	1.5	9.8	28	.74	7.8	48	1.0
20	13	28	.98	9.8	35	.93	7.4	58	1.2
21	13	27	.95	9.0	40	.97	7.4	71	1.4
22	14	25	.94	9.0	39	.95	7.0	81	1.5
23	14	23	.87	9.0	39	.95	6.7	84	1.5
24	14	21	.79	9.4	38	.96	6.7	105	1.9
25	13	26	.91	9.4	38	.96	6.7	132	2.4
26	13	29	1.0	9.8	37	.98	6.7	152	2.7
27	13	34	1.2	9.4	35	.89	6.4	135	2.3
28	11	30	.89	10	32	.86	5.1	113	1.6
29	11	25	.74	10	29	.78	5.4	92	1.3
30	10	20	.54	10	34	.92	5.4	68	.99
31	---	---	---	10	37	1.0	---	---	---
TOTAL	459	---	85.51	330.2	---	30.04	235.1	---	37.89
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	4.8	67	.87	2.7	11	.08	1.9	12	.06
2	5.4	66	.96	2.5	11	.07	2.0	17	.09
3	5.1	65	.90	2.5	15	.10	2.2	20	.12
4	4.7	63	.80	2.5	14	.09	2.2	22	.13
5	4.6	55	.68	2.5	13	.09	2.2	19	.11
6	4.5	49	.60	2.5	13	.09	2.7	13	.09
7	4.4	44	.52	2.5	13	.09	4.1	8	.09
8	4.3	52	.60	2.5	13	.09	3.6	6	.06
9	4.1	56	.62	2.5	17	.11	3.1	4	.03
10	4.0	61	.66	2.5	30	.20	92	3180	2090
11	3.9	61	.64	2.5	35	.24	61	4020	922
12	3.8	68	.70	2.5	37	.25	17	230	11
13	3.7	68	.68	2.5	41	.28	15	33	1.3
14	3.6	68	.66	2.5	33	.22	15	27	1.1
15	3.3	64	.57	2.5	25	.17	15	19	.77
16	3.6	60	.58	2.5	16	.11	14	130	4.9
17	3.6	53	.52	2.5	17	.11	14	80	3.0
18	3.3	43	.38	2.5	18	.12	14	60	2.3
19	3.3	40	.36	2.5	18	.12	14	40	1.5
20	3.1	38	.32	2.5	18	.12	16	25	1.1
21	3.1	37	.31	2.5	21	.14	15	14	.57
22	2.9	32	.25	2.5	24	.16	16	13	.56
23	3.1	26	.22	2.5	28	.19	16	12	.52
24	2.9	19	.15	2.5	26	.18	15	12	.49
25	2.9	18	.14	2.5	20	.14	15	12	.49
26	2.9	17	.13	2.5	13	.09	16	12	.52
27	2.9	16	.13	2.4	9	.06	16	11	.48
28	2.7	15	.11	2.2	9	.05	17	11	.50
29	2.7	13	.09	2.0	9	.05	17	11	.50
30	2.7	11	.08	1.9	9	.05	15	11	.45
31	2.7	11	.08	1.9	11	.06	---	---	---
TOTAL	112.6	---	14.31	75.6	---	3.92	469.0	---	3044.83
YEAR	5277.8		10080.84						

SANTA CLARA RIVER BASIN

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

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

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1975	323.30	31.26	657	688
NOVEMBER ...	488.00	77.58	1310	1390
DECEMBER ...	517.00	84.20	1410	1490
JANUARY 1976	609.00	166.70	1820	1990
FEBRUARY ...	935.00	5835.10	3960	9790
MARCH	724.00	669.50	2380	3050
APRIL	459.00	85.51	1200	1280
MAY	330.20	30.04	682	712
JUNE	235.10	37.89	383	421
JULY	112.60	14.31	68	82
AUGUST	75.60	3.92	16	20
SEPTEMBER ..	469.00	3044.83	1560	4600
TOTAL	5277.80	10080.84	15446	25513

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

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT DIS- CHARGE (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
FEB										
06...	0820	8.0	88	6240	1480	41	58	76	88	93
06...	1330	10.0	44	1820	216	32	50	66	76	79
08...	1155	14.0	27	377	27	31	35	42	49	54
09...	0740	11.0	1510	9690	39500	40	53	69	83	90
09...	1130	11.5	225	5270	3200	39	51	70	85	93
SEP										
11...	1015	19.0	32	2100	181	53	75	87	96	97
11...	1635	19.5	72	4380	851	54	72	91	98	100
16...	1540	24.0	12	250	8.1	59	73	88	98	99

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
FEB									
06...	95	--	95	--	97	--	100	--	--
06...	80	--	81	--	90	--	100	--	--
08...	--	56	--	60	--	76	--	97	100
09...	94	--	96	--	99	--	100	--	--
09...	97	--	98	--	100	--	--	--	--
SEP									
11...	--	98	--	98	--	98	--	99	100
11...	--	--	--	--	--	--	--	--	--
16...	--	99	--	99	--	99	--	100	--

SANTA CLARA RIVER BASIN

11109100 PIRU CREEK BELOW THORN MEADOWS, NEAR STAUFFER, CA

LOCATION.--Lat 34°38'21", long 119°05'43", in SW¼NE¼SW¼ sec.3, T.6 N., R.21 W., Ventura County, on right bank 1.3 mi (2.1 km) northeast of Thorn Meadows, and 8 mi (13 km) southwest of Stauffer.

DRAINAGE AREA.--22.5 mi² (58.3 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 4,280 ft (1,305 m), from topographic map.

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

COOPERATION.--Fourteen discharge measurements furnished by Ventura County Flood Control District.

AVERAGE DISCHARGE.--5 years, 5.35 ft³/s (0.152 m³/s), 3,880 acre-ft/yr (4.78 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,660 ft³/s (47.0 m³/s) Feb. 11, 1973, gage height, 5.37 ft (1.637 m), from floodmarks, from rating curve extended above 60 ft³/s (1.70 m³/s) on basis of slope-area measurement of maximum flow; no flow many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 50 ft³/s (1.42 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)	
Feb. 9	0430	*506	14.3	3.71	1.131	Sept. 29	0900	85	2.41	2.35	0.716
Sept. 10	2400	144.	4.08	2.65	0.808						

Minimum daily discharge, no flow Sept. 7-9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.02	.04	.05	.07	20	3.3	2.2	.36	.07	.01	.02
2	.01	.02	.04	.04	.07	11	3.3	1.9	.32	.07	.01	.01
3	.01	.02	.05	.05	.07	8.4	3.3	1.8	.32	.07	.01	.01
4	.01	.02	.05	.05	.07	6.2	4.2	1.8	.30	.07	.01	.01
5	.01	.02	.05	.05	.19	5.4	4.3	1.8	.25	.07	.01	.01
6	.01	.02	.05	.05	.30	5.4	3.9	1.9	.25	.07	.01	.01
7	.01	.02	.05	.05	.26	5.4	3.3	2.2	.25	.07	.01	0
8	.01	.02	.05	.06	64	5.0	3.8	1.8	.25	.06	.01	0
9	.01	.02	.05	.06	173	5.0	3.7	1.7	.25	.06	.01	0
10	.01	.03	.05	.06	41	5.4	3.3	1.6	.41	.06	.01	13
11	.01	.03	.06	.05	21	5.7	3.2	1.4	.41	.05	.01	25
12	.01	.03	.06	.05	17	5.5	3.4	1.3	.29	.06	.01	1.1
13	.01	.03	.06	.06	13	5.3	4.5	1.1	.23	.05	.01	.09
14	.01	.04	.05	.06	13	5.4	3.8	1.0	.17	.03	.01	.05
15	.01	.04	.05	.06	12	5.4	3.4	1.1	.14	.04	.01	.05
16	.01	.04	.05	.07	6.7	5.4	4.1	.98	.13	.04	.01	.05
17	.01	.04	.05	.07	6.2	7.0	3.6	.89	.10	.03	.01	.04
18	.01	.04	.05	.07	6.2	9.5	3.3	.98	.10	.04	.01	.04
19	.01	.03	.05	.07	6.6	8.6	3.3	.95	.10	.03	.02	.04
20	.01	.04	.05	.07	5.4	6.6	3.5	.92	.10	.02	.01	.04
21	.01	.04	.05	.07	4.4	5.7	3.6	.83	.09	.02	.01	.04
22	.01	.04	.05	.07	3.9	5.3	3.7	.77	.07	.02	.01	.04
23	.01	.04	.05	.07	3.7	5.2	3.6	.72	.07	.02	.01	.04
24	.01	.04	.05	.07	3.7	5.2	3.1	.66	.07	.02	.01	.04
25	.01	.04	.05	.07	3.4	5.6	3.0	.61	.07	.02	.01	.04
26	.01	.04	.05	.07	3.4	5.0	2.8	.57	.10	.02	.01	.04
27	.01	.04	.05	.07	3.4	4.6	2.7	.53	.10	.02	.01	.04
28	.01	.04	.05	.07	3.7	4.2	2.7	.49	.10	.02	.02	.04
29	.01	.04	.05	.07	4.7	3.9	2.4	.46	.09	.02	.02	11
30	.01	.04	.05	.07	---	3.6	2.3	.42	.07	.02	.03	1.6
31	.01	---	.05	.07	---	3.5	---	.39	---	.02	.03	---
TOTAL	.31	.97	1.56	1.92	420.43	193.4	102.4	35.77	5.56	1.28	.38	52.49
MFAN	.010	.032	.050	.062	14.5	6.24	3.41	1.15	.19	.041	.012	1.75
MAX	.01	.04	.06	.07	173	20	4.5	2.2	.41	.07	.03	25
MIN	.01	.02	.04	.04	.07	3.5	2.3	.39	.07	.02	.01	0
AC-FT	.6	1.9	3.1	3.8	834	384	203	71	11	2.5	.8	104
CAL YR 1975	TOTAL	2019.53	MEAN 5.53	MAX 344	MIN 0	AC-FT 4010						
WTR YR 1976	TOTAL	816.47	MEAN 2.23	MAX 173	MIN 0	AC-FT 1620						

SANTA CLARA RIVER BASIN

11109200 MIDDLE FORK LOCKWOOD CREEK NEAR STAUFFER, CA

LOCATION.--Lat 34°45'56", long 119°07'12", in SW¼NE¼SE¼ sec.20, T.8 N., R.21 W., Ventura County, on right bank 3.3 mi (5.3 km) upstream from Lockwood Creek, and 3.3 mi (5.3 km) northwest of Stauffer.

DRAINAGE AREA.--5.50 mi² (14.24 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,530 ft (1,686 m), from topographic map.

REMARKS.--Records fair except those for February and September, which are poor. No regulation or diversion above station.

COOPERATION.--Eighteen discharge measurements were furnished by Ventura County Flood Control District.

AVERAGE DISCHARGE.--5 years, 0.55 ft³/s (0.016 m³/s), 398 acre-ft/yr (491,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 697 ft³/s (19.7 m³/s) Sept. 6, 1976, gage height, 4.80 ft (1.463 m), from rating curve extended above 2.9 ft³/s (0.082 m³/s) on basis of slope-area measurement of maximum flow; no flow for some days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 697 ft³/s (19.7 m³/s) Sept. 6 (1415 hrs), gage height, 4.80 ft (1.463 m), from rating curve extended above 2.9 ft³/s (0.082 m³/s) on basis of slope-area measurement of maximum flow; no other peaks above base of 100 ft³/s (2.83 m³/s); no flow July 18 to Sept. 5, Sept. 7-9, 18-28.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.12	.19	.08	.17	.70	.30	.41	.17	.03		0
2	.05	.08	.17	.08	.16	.85	.27	.33	.14	.03		0
3	.05	.07	.15	.11	.16	.86	.27	.33	.14	.03		0
4	.05	.07	.13	.12	.16	.75	1.9	.25	.14	.02		0
5	.05	.08	.13	.15	.19	.60	1.4	.25	.14	.02		0
6	.05	.08	.13	.14	.22	.60	.82	.27	.13	.02		9.7
7	.05	.06	.12	.15	.28	.60	.61	.25	.14	.02		0
8	.05	.06	.13	.14	12	.50	.60	.21	.14	.01		0
9	.05	.06	.11	.14	13	.50	.50	.21	.14	.01		0
10	.05	.07	.11	.13	2.6	.50	.50	.21	.19	.01		3.1
11	.08	.06	.13	.14	1.9	.52	.50	.20	.15	.01		1.5
12	.08	.05	.12	.14	1.9	.51	.50	.24	.11	.01		.02
13	.08	.06	.12	.12	1.9	.66	.50	.23	.10	.01		.01
14	.08	.06	.06	.12	1.9	.82	.41	.21	.09	.01		.01
15	.07	.06	.10	.11	1.2	.93	.41	.23	.09	.01		.01
16	.05	.04	.10	.11	1.0	1.4	1.1	.20	.08	.01		.01
17	.05	.04	.10	.10	1.2	2.6	.74	.20	.07	.01		.01
18	.05	.04	.09	.10	1.6	2.2	.50	.20	.07	0		0
19	.06	.05	.09	.10	1.3	1.5	.50	.20	.07	0		0
20	.06	.05	.10	.11	.80	1.1	.60	.20	.07	0		0
21	.06	.05	.09	.12	.66	.92	.55	.19	.06	0		0
22	.06	.05	.09	.12	.60	.95	.55	.19	.06	0		0
23	.07	.05	.11	.12	.60	.90	.61	.18	.06	0		0
24	.07	.05	.11	.15	.60	.99	.57	.18	.04	0		0
25	.06	.05	.10	.14	.60	.89	.66	.18	.03	0		0
26	.07	.06	.10	.15	.60	.65	.57	.21	.03	0		0
27	.10	.05	.10	.17	.60	.47	.67	.20	.03	0		0
28	.10	.05	.13	.17	.60	.38	.61	.19	.02	0		0
29	.09	.54	.13	.17	.60	.35	.45	.19	.03	0		.22
30	.12	.11	.13	.17	---	.32	.41	.19	.03	0		.03
31	.13	---	.06	.17	---	.32	---	.18	---	0		---
TOTAL	2.09	2.32	3.53	4.04	49.10	25.84	18.58	6.91	2.76	.27	0	14.62
MEAN	.067	.077	.11	.13	1.69	.83	.62	.22	.092	.009	0	.49
MAX	.13	.54	.19	.17	13	2.6	1.9	.41	.19	.03	0	9.7
MIN	.05	.04	.06	.08	.16	.32	.27	.18	.02	0	0	0
AC-FT	4.1	4.6	7.0	8.0	97	51	37	14	5.5	.5	0	29
CAL YR 1975	TOTAL	160.64	MEAN .44	MAX	4.0	MIN 0	AC-FT 319					
WTR YR 1976	TOTAL	130.06	MEAN .36	MAX	13	MIN 0	AC-FT 258					

SANTA CLARA RIVER BASIN

11109250 LOCKWOOD CREEK AT GORGE, NEAR STAUFFER, CA

LOCATION.--Lat 34°43'57", long 119°02'14", in SE¼SW¼SE¼ sec.31, T.8 N., R.20 W., Ventura County, on right bank 2.1 mi (3.4 km) southeast of Stauffer, and 3.8 mi (6.1 km) upstream from Piru Creek.

DRAINAGE AREA.--58.7 mi² (152.0 km²).

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

REVISED RECORDS.--WDR CA-74-1: 1973 (M)

GAGE.--Water-stage recorder. Altitude of gage is 4,790 ft (1,460 m), from topographic map.

REMARKS.--Records good except those above 20 ft³/s (0.57 m³/s) and for months of December and January, which are fair.

COOPERATION.--Nineteen discharge measurements furnished by Ventura County Flood Control District.

AVERAGE DISCHARGE.--5 years, 4.83 ft³/s (0.137 m³/s), 3,500 acre-ft/yr (4.32 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 906 ft³/s (25.7 m³/s) Aug. 2, 1974, gage height, 4.92 ft (1.500 m), from rating curve extended above 34 ft³/s (0.96 m³/s) on basis of slope-area measurement at gage height 4.92 ft (1.500 m); minimum daily, 1.0 ft³/s (0.028 m³/s) Aug. 15, 16, 18-20, 22, 23, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharge 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)	
Feb. 9	0430	*149	4.22	3.53	1.076
Sept. 6	1530	145	4.11	3.50	1.067

Minimum daily discharge, 1.2 ft³/s (0.033 m³/s) July 16, 17, Sept. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	3.2	2.9	2.8	2.9	5.2	2.6	2.9	2.6	2.2	1.7	1.2
2	3.0	3.2	2.9	2.7	2.9	4.4	2.5	2.9	2.6	2.2	1.7	1.3
3	2.9	3.2	2.9	2.7	2.6	4.4	2.7	2.8	2.4	2.2	1.7	1.3
4	2.9	2.9	2.9	2.7	2.6	4.2	3.2	2.7	2.4	2.2	1.7	1.3
5	2.9	2.9	2.8	2.7	2.8	4.0	3.3	2.7	2.5	2.2	1.7	1.3
6	3.2	2.9	2.9	2.6	3.1	3.8	3.1	2.7	2.5	2.2	1.7	9.6
7	3.2	2.9	3.0	2.6	3.5	3.7	2.9	2.8	2.3	2.2	1.5	3.5
8	3.2	2.9	3.1	2.7	19	3.7	3.1	2.7	2.3	1.9	1.7	1.8
9	3.2	3.0	2.9	2.7	86	3.5	2.9	2.7	2.3	1.9	1.7	1.5
10	3.2	3.1	3.2	2.8	46	3.5	2.9	2.7	2.3	1.9	1.7	12
11	3.3	2.9	3.2	2.8	26	3.4	2.9	2.6	2.2	1.7	1.7	8.5
12	3.7	2.9	3.3	2.9	20	3.3	3.0	2.6	2.2	1.6	1.7	2.2
13	3.6	3.0	3.1	3.0	14	3.2	3.3	2.4	2.3	1.4	1.7	2.0
14	3.6	2.8	2.9	3.0	18	2.9	3.1	2.5	2.1	1.3	1.9	1.9
15	3.5	2.9	2.9	2.9	13	2.9	2.9	2.5	2.1	1.5	2.2	1.9
16	3.6	3.0	2.8	2.9	8.4	2.9	3.0	2.5	2.1	1.2	2.2	1.8
17	3.6	3.0	2.8	2.9	9.6	2.9	2.9	2.5	1.9	1.2	2.2	1.8
18	3.6	3.0	2.7	2.9	10	3.1	2.8	2.4	1.9	1.6	2.1	1.7
19	3.3	3.0	2.7	2.9	10	3.2	2.8	2.3	2.0	2.0	2.1	1.7
20	3.4	3.1	2.8	2.9	6.8	2.9	2.9	2.3	2.2	1.8	2.0	1.7
21	3.4	3.1	2.9	2.9	5.4	2.9	3.1	2.2	2.0	2.0	1.9	1.7
22	3.5	3.2	2.9	2.9	4.6	2.9	3.3	2.3	2.0	2.0	2.1	1.7
23	3.2	3.2	2.9	2.9	4.2	3.0	3.0	2.5	2.1	2.0	2.2	1.7
24	3.2	3.2	2.8	2.9	3.6	3.0	3.1	2.5	2.1	2.0	2.1	1.7
25	3.2	3.2	2.9	3.2	3.6	3.1	3.1	2.5	2.1	1.9	2.0	1.9
26	3.2	2.9	2.9	3.1	3.7	2.9	3.1	2.6	2.2	2.0	2.0	1.7
27	3.2	2.9	2.9	3.1	3.9	3.1	2.8	2.4	2.2	1.8	2.0	1.7
28	3.2	3.0	2.9	3.2	3.9	3.0	2.7	2.3	2.5	1.7	1.7	1.7
29	3.2	2.9	2.9	3.2	4.4	2.7	2.6	2.6	2.4	1.7	1.4	3.1
30	3.3	2.9	2.9	2.9	---	2.7	2.6	2.6	2.2	1.7	1.4	1.5
31	3.2	---	2.8	2.9	---	2.7	---	2.6	---	1.7	1.3	---
TOTAL	101.8	90.3	90.4	89.3	344.5	103.1	88.2	79.3	67.0	56.9	56.7	78.4
MEAN	3.28	3.01	2.92	2.88	11.9	3.33	2.94	2.56	2.23	1.84	1.83	2.61
MAX	3.7	3.2	3.3	3.2	86	5.2	3.3	2.9	2.6	2.2	2.2	12
MIN	2.9	2.8	2.7	2.6	2.6	2.7	2.5	2.2	1.9	1.2	1.3	1.2
AC-FT	202	179	179	177	683	204	175	157	133	113	112	156
CAL YR 1975	TOTAL	1492.2	MEAN	4.09	MAX	104	MIN	1.9	AC-FT	2960		
WTR YR 1976	TOTAL	1245.9	MEAN	3.40	MAX	86	MIN	1.2	AC-FT	2470		

SANTA CLARA RIVER BASIN

11109550 PIRU CREEK ABOVE FRENCHMANS FLAT, CA

WATER-QUALITY RECORDS

LOCATION.--Lat 34°37'43", long 118°44'42", in NW¼SW¼NW¼ sec. 12, T.6 N., R.18 W., Los Angeles County, on right bank of concrete-lined channel beside old Highway 99, 1 mi (2 km) north of Frenchmans Flat, and 12.5 mi (20.1 km) north of Castaic.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1972 to current year.

INSTRUMENTATION.--Specific conductance recorder since March 1972.

REMARKS.--Gaging station 700 ft (213 m) upstream operated by California Department of Water Resources.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 2,540 micromhos Dec. 29, 1973; minimum recorded, 338 micromhos Nov. 30, 1972, Feb. 13, 1976.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,400 micromhos Sept. 10; minimum, 338 micromhos Feb. 13.

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	586	568	578	614	592	606	606	582	596	580	554	567
2	588	572	580	610	588	602	804	574	620	578	560	569
3	590	568	580	608	588	598	588	554	572	578	554	565
4	592	572	580	608	574	593	714	548	602	576	552	568
5	586	570	581	608	580	595	596	554	578	578	552	567
6	690	572	622	604	580	596	1050	582	713	582	548	563
7	690	668	682	604	584	596	716	574	601	570	542	560
8	682	636	659	606	582	597	600	564	585	576	548	562
9	654	604	628	604	586	596	594	564	585	578	548	565
10	632	610	623	604	586	593	594	568	586	568	542	559
11	646	592	624	602	578	591	594	572	587	568	534	556
12	636	620	629	600	576	590	604	580	590	568	546	557
13	636	612	623	598	574	591	602	580	591	566	540	555
14	626	612	622	602	576	588	590	564	582	564	542	555
15	632	594	618	598	576	585	586	560	578	560	544	554
16	626	606	618	602	568	586	590	574	582	560	540	553
17	624	602	615	596	564	586	588	570	580	560	542	550
18	624	604	617	592	574	583	586	570	577	558	542	551
19	622	578	606	594	568	584	582	566	575	556	538	548
20	620	578	605	600	574	586	586	566	576	556	538	546
21	620	582	607	592	570	583	582	564	575	554	538	545
22	620	604	613	596	564	581	584	558	574	556	536	547
23	628	604	615	586	566	578	582	550	569	562	536	551
24	624	604	613	594	560	577	578	550	568	560	534	548
25	620	600	609	618	562	583	582	546	568	554	536	548
26	616	596	607	658	576	600	576	554	568	558	534	547
27	612	588	605	606	572	589	580	546	567	556	536	546
28	608	590	601	614	572	599	580	562	570	552	536	544
29	610	588	600	612	576	597	572	546	560	576	532	548
30	622	590	602	604	574	592	576	546	562	550	526	540
31	624	596	610	---	---	---	582	552	571	544	530	538
MONTH	690	568	612	658	560	591	1050	546	584	582	526	554

SANTA CLARA RIVER BASIN

11109600 PIRU CREEK ABOVE LAKE PIRU, CA

LOCATION.--Lat 34°31'23", long 118°45'22", in SW¼NE¼NW¼ sec.15, T.5 N., R.18 W., Ventura County, on left bank near Blue Point, 1.3 mi (2.1 km) downstream from Agua Blanca Creek, 4.3 mi (6.9 km) upstream from Santa Felicia Dam, and 8.0 mi (12.9 km) northeast of Piru.

DRAINAGE AREA.--372 mi² (963 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,058.55 ft (322.646 m) above mean sea level (levels by U.S. Forest Service). Prior to Dec. 15, 1972, at site 0.3 mi (0.5 km) upstream at different datum.

REMARKS.--Records fair. Flow regulated beginning December 1971 by Pyramid Dam, capacity, 173,500 acre-ft (214 hm³) 15 mi (24 km) upstream. Imported water from the California Water Project stored and released from Pyramid Dam. No diversion above station.

AVERAGE DISCHARGE.--16 years (water years 1956-71), 55.1 ft³/s (1.560 m³/s), 39,920 acre-ft/yr (49.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,200 ft³/s (884 m³/s) Feb. 25, 1969, gage height, 18.6 ft (5.669 m), site and datum then in use, from floodmark, from rating curve extended above 4,000 ft³/s (113 m³/s) on basis of slope-area measurement at gage height 12.2 ft (3.719 m) and inflow-outflow records for Lake Piru; no flow in some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 2, 1938, 35,000 ft³/s (991 m³/s), is the greatest since that date.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 706 ft³/s (20.0 m³/s) Feb. 9, gage height, 5.56 ft (1.695 m); minimum daily, 1.7 ft³/s (0.048 m³/s) June 27, 28.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	4.9	5.3	6.2	4.9	14	8.3	4.9	4.5	3.1	11	9.8
2	8.9	4.9	4.9	6.2	4.9	21	7.7	4.4	4.5	4.8	11	7.3
3	8.9	4.9	4.5	5.7	4.9	32	8.3	6.7	4.5	5.8	11	6.0
4	8.3	4.9	4.9	6.2	5.3	21	9.5	7.2	4.9	7.1	10	6.0
5	8.3	4.5	4.5	6.2	11	16	10	7.2	5.3	7.7	10	6.6
6	8.9	5.3	5.3	6.2	5.5	14	9.5	8.9	4.9	6.7	11	7.0
7	6.7	5.3	3.4	6.2	6.7	14	8.9	11	4.5	6.2	11	7.3
8	5.7	5.3	4.1	5.7	198	13	8.9	8.3	4.5	5.7	11	6.4
9	4.9	5.7	4.5	6.2	400	14	10	8.3	4.9	5.6	11	6.9
10	4.9	6.2	4.5	6.2	391	14	8.9	8.3	4.9	6.0	11	21
11	5.3	6.2	4.9	6.2	531	14	8.3	7.2	4.9	6.4	10	37
12	6.2	5.7	5.7	6.2	530	13	8.9	5.7	4.1	6.4	10	11
13	5.7	5.7	6.2	5.7	407	11	14	4.5	4.1	9.7	10	6.4
14	5.3	5.7	6.2	5.3	54	11	14	4.5	4.1	11	10	6.0
15	4.5	6.2	5.7	5.3	40	10	11	4.5	4.1	11	10	5.2
16	4.1	7.2	5.7	5.7	32	10	10	5.4	3.8	11	10	4.8
17	3.8	7.7	5.7	5.7	26	11	9.5	6.2	4.1	11	11	4.5
18	3.8	7.7	5.7	5.3	21	11	8.9	6.2	4.1	11	11	3.8
19	4.1	6.7	5.7	5.7	19	12	8.9	6.2	3.8	10	11	3.8
20	4.1	5.7	5.7	5.7	18	11	7.7	6.2	4.1	10	11	3.5
21	4.1	5.7	6.2	5.3	15	11	6.7	6.2	4.9	9.8	11	3.8
22	4.5	6.2	6.2	5.3	14	10	7.2	6.7	3.8	10	11	3.8
23	4.5	5.6	6.7	5.7	12	10	7.7	6.2	3.8	11	11	3.8
24	4.9	7.2	6.2	5.7	11	9.8	6.7	4.1	2.1	9.8	10	3.5
25	4.5	6.7	6.2	6.2	11	9.6	6.2	4.5	1.9	10	10	4.2
26	4.6	6.2	6.2	5.7	11	9.5	6.2	4.5	1.9	11	11	4.5
27	4.8	5.3	5.7	5.3	11	9.5	6.7	4.1	1.7	11	10	4.2
28	4.9	6.2	6.2	5.7	9.5	9.5	7.2	3.4	1.7	10	10	3.8
29	4.5	5.7	5.7	4.9	8.9	9.5	6.7	5.7	2.1	10	11	4.2
30	4.9	5.7	5.7	4.9	---	9.5	6.2	6.7	2.6	11	10	4.2
31	5.3	---	5.7	5.3	---	8.9	---	5.7	---	11	9.3	---
TOTAL	172.8	176.9	169.8	177.8	2923.4	393.8	258.7	189.6	115.1	270.8	326.3	210.3
MEAN	5.57	5.90	5.48	5.74	101	12.7	8.62	6.12	3.84	8.74	10.5	7.01
MAX	8.9	7.7	6.7	6.2	531	32	14	11	5.3	11	11	37
MIN	3.8	4.5	3.4	4.9	4.9	8.9	6.2	3.4	1.7	3.1	9.3	3.5
AC-FT	343	351	337	353	5800	781	513	376	228	537	647	417
CAL YR 1975 TOTAL	13011.3			MEAN 35.6	MAX 743	MIN 3.4	AC-FT 25810					
WTR YR 1976 TOTAL	5385.3			MEAN 14.7	MAX 531	MIN 1.7	AC-FT 10680					

11109600 PIRU CREEK ABOVE LAKE PIRU, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1971 to current year.

INSTRUMENTATION.--Specific conductance recorder since March 1971.

REMARKS.--Periods of missing specific conductance data due to recorder malfunction and vandalism.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,980 micromhos June 3, 1973; minimum recorded, 464 micromhos Apr. 22, 1973.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,180 micromhos Feb. 7; minimum recorded, 485 micromhos Feb. 9.

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	816	748	782	896	832	869	908	853	882	884	860	875
2	818	732	777	900	832	867	889	847	874	881	855	873
3	809	737	772	882	818	858	894	864	882	883	841	868
4	811	743	778	890	820	863	896	854	879	882	850	871
5	816	750	782	892	832	865	888	856	874	886	854	875
6	819	765	792	894	836	871	888	844	872	883	855	873
7	834	798	815	882	832	872	921	865	888	880	852	870
8	871	821	848	898	842	874	899	845	879	886	848	871
9	896	842	869	904	846	879	928	846	887	879	847	868
10	903	847	875	902	850	881	887	845	870	878	846	867
11	890	840	865	910	858	885	882	840	866	879	847	867
12	891	845	868	908	856	887	876	822	862	877	841	862
13	902	848	875	914	850	887	878	852	867	880	844	867
14	903	849	881	906	848	881	878	850	869	881	841	867
15	908	850	885	906	852	882	881	851	871	880	840	866
16	913	847	886	908	854	883	883	847	868	877	837	864
17	917	855	887	902	856	885	879	843	866	875	827	860
18	918	868	890	910	864	887	874	842	861	880	838	862
19	909	855	885	908	856	885	873	827	859	869	839	860
20	912	856	885	906	844	882	872	834	858	875	835	860
21	912	854	883	898	844	880	867	831	854	884	846	871
22	905	849	880	902	844	882	866	832	854	884	834	866
23	916	866	892	904	852	882	866	832	853	883	843	868
24	924	866	897	902	844	881	871	831	857	881	843	866
25	921	861	893	908	850	881	871	833	858	882	844	868
26	916	860	892	900	854	881	870	834	856	882	842	868
27	911	855	886	896	876	888	872	846	862	883	843	868
28	917	855	889	904	868	888	873	841	864	883	843	870
29	910	848	886	906	862	887	879	837	866	885	837	867
30	904	848	878	916	856	884	881	845	867	882	832	862
31	894	834	870	---	---	---	886	858	875	874	830	861
MONTH	924	732	859	916	818	879	928	822	868	886	827	867

SANTA CLARA RIVER BASIN

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11109700 LAKE PIRU NEAR PIRU, CA

LOCATION.--Lat 34°27'52", long 118°44'57", in Temescal Grant, Ventura County, at Santa Felicia Dam on Piru Creek, on left bank 1,000 ft (305 m) upstream from left end of dam, 0.5 mi (0.8 km) downstream from Santa Felicia Canyon, and 4.2 mi (6.8 km) northeast of Piru.

DRAINAGE AREA.--425 mi² (1,101 km²).

PERIOD OF RECORD.--May 1955 to current year.

GAGE.--Nonrecording gage. Datum of gage is at mean sea level (levels by United Water Conservation District). Prior to Jan. 27, 1956, reference point at intake tower at same datum.

REMARKS.--Lake is formed by earthfill dam. Storage began May 20, 1955. Capacity table is based on a survey made in 1975. Capacity below spillway level at elevation 1,055.0 ft (321.564 m), 91,010 acre-ft (112 hm³). Flow regulated since December 1971 by Pyramid Dam, capacity, 173,500 acre-ft (214 hm³). Imported water from the California Water Project stored behind and released from Pyramid Dam. Water is released from outlet to Piru Creek for ground-water recharge, domestic use, and irrigation on the Oxnard plain.

COOPERATION.--Elevations furnished by United Water Conservation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 109,400 acre-ft (135 hm³) Feb. 25, 1969, elevation, 1,061.45 ft (323.530 m); lake dry Oct. 25 to Nov. 20, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 16,170 acre-ft (19.9 hm³) Mar. 23, 24, elevation, 971.30 ft (296.052 m); minimum, 10,340 acre-ft (12.7 hm³) Jan. 29 to Feb. 5, elevation, 958.00 ft (291.998 m).

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	960.00	11060	--
Oct. 31.....	959.00	10700	-360
Nov. 30.....	958.35	10470	-230
Dec. 31.....	958.10	10380	-90
CAL YR 1975.....	--	--	+3030
Jan. 31.....	958.00	10340	-40
Feb. 29.....	970.05	15520	+5180
Mar. 31.....	971.20	16110	+590
Apr. 30.....	971.15	16090	-20
May 31.....	967.15	14090	-2000
June 30.....	962.65	12100	-1990
July 31.....	962.15	11890	-210
Aug. 31.....	962.20	11920	+30
Sept. 30.....	962.30	11960	+40
WTR YR 1976.....	--	--	+900

SANTA CLARA RIVER BASIN

11109800 PIRU CREEK BELOW SANTA FELICIA DAM, CA

LOCATION.--Lat 34°27'37", long 118°45'04", in Temescal Grant, Ventura County, on right bank 750 ft (229 m) downstream from Santa Felicia Dam, 1 mi (2 km) upstream from Lime Canyon, and 4 mi (6 km) northeast of Piru.

DRAINAGE AREA.--425 mi² (1,100 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1955 to September 1968, October 1973 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 858.8 ft (261.76 m) above mean sea level (levels by United Water Conservation District).

REMARKS.--Records good. Flow regulated since December 1971 by Pyramid Dam, capacity, 173,500 acre-ft (214 hm³). Imported water from the California Water Project stored behind and released from Pyramid Dam. Flow also regulated by Lake Piru (station 11109700). No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 544 ft³/s (15.4 m³/s) Aug. 18, 1958, gage height, 3.66 ft (1.116 m); no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 39 ft³/s (1.10 m³/s) June 24-27; no flow Feb. 10 to Mar. 17, Mar. 19-20.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	9.9	9.1	6.3	6.3	0	7.5	7.2	38	10	6.9	6.9
2	9.5	9.9	9.1	6.3	6.3	0	7.5	7.2	38	10	6.9	6.9
3	9.5	9.9	7.8	6.3	6.3	0	7.5	25	38	10	6.9	6.9
4	9.5	8.4	7.1	6.3	6.3	0	7.5	36	38	10	6.9	6.9
5	9.5	7.4	7.1	6.3	6.4	0	7.5	36	38	10	6.6	6.9
6	9.5	7.1	7.1	6.3	6.5	0	7.5	36	38	10	6.6	6.9
7	9.5	7.1	7.1	6.3	6.5	0	7.5	36	38	10	6.6	6.9
8	9.5	7.1	7.1	6.3	6.6	0	7.5	36	38	9.0	6.6	6.9
9	9.5	7.1	7.1	6.3	4.3	0	7.5	36	38	7.2	6.6	6.9
10	9.5	7.1	7.1	6.3	0	0	7.5	37	38	6.9	6.6	6.9
11	9.5	7.1	7.1	6.3	0	0	7.5	37	38	6.9	6.7	6.9
12	9.5	6.8	7.1	6.3	0	0	7.5	37	38	6.7	6.8	6.9
13	9.5	6.8	7.1	6.3	0	0	7.5	37	38	6.6	6.9	6.9
14	9.5	6.8	7.1	6.3	0	0	7.5	37	38	6.6	6.9	6.9
15	9.5	6.8	7.1	6.3	0	0	7.8	37	37	6.6	6.9	6.9
16	9.6	6.8	7.1	6.3	0	0	7.7	37	37	6.6	6.9	6.9
17	9.6	8.4	7.1	6.3	0	0	7.8	37	37	6.6	6.9	6.9
18	9.6	9.1	7.1	6.3	0	.10	7.8	37	37	6.6	6.9	6.9
19	9.5	9.1	7.1	6.3	0	0	7.8	36	38	6.6	6.9	7.0
20	9.5	9.1	7.1	6.3	0	0	7.5	36	38	6.6	6.9	6.9
21	9.5	9.1	7.1	6.3	0	.54	7.2	36	38	6.6	6.9	7.0
22	9.5	9.1	7.1	6.3	0	1.5	7.2	36	38	6.6	6.8	7.2
23	10	9.1	7.1	6.3	0	5.8	7.2	37	38	6.6	6.8	7.2
24	9.9	9.1	7.1	6.3	0	8.4	7.2	37	39	6.6	6.9	7.2
25	9.9	9.1	7.1	6.3	0	7.4	7.2	37	39	6.6	6.9	7.2
26	9.9	9.1	6.5	6.3	0	7.4	7.2	37	39	6.6	6.9	7.2
27	9.9	9.1	6.2	6.3	0	7.5	7.2	37	39	6.8	6.9	7.2
28	9.9	9.1	6.0	6.3	0	7.5	7.2	37	24	6.9	6.9	7.2
29	9.9	9.1	6.0	6.3	0	7.5	7.2	37	11	6.9	6.9	7.3
30	9.9	9.1	6.2	6.3	---	7.5	7.2	38	10	6.9	6.9	7.4
31	9.9	---	6.3	6.3	---	7.5	---	38	---	6.9	6.9	---
TOTAL	298.5	248.8	219.4	195.3	55.5	68.64	223.4	1067.4	1071	233.5	211.6	210.2
MEAN	9.63	8.29	7.08	6.30	1.91	2.21	7.45	34.4	35.7	7.53	6.83	7.01
MAX	10	9.9	9.1	6.3	6.6	8.4	7.8	38	39	10	6.9	7.4
MIN	9.5	6.8	6.0	6.3	0	0	7.2	7.2	10	6.6	6.6	6.9
AC-FT	592	493	435	387	110	136	443	2120	2120	463	420	417
CAL YR 1975 TOTAL	10519.30			MEAN 28.8	MAX 251	MIN 1.6	AC-FT 20870					
WTR YR 1976 TOTAL	4103.24			MEAN 11.2	MAX 39	MIN 0	AC-FT 8140					

11109800 PIRU CREEK BELOW SANTA FELICIA DAM, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: February 1974 to current year.

INSTRUMENTATION.--Specific conductance recorder since February 1974.

REMARKS.--Periods of missing specific conductance data due to recorder malfunction except Feb. 9 to Mar. 21 which was a period of no flow.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,320 micromhos June 13, 1975; minimum, 801 micromhos June 23, 1975.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,160 micromhos Dec. 17; minimum, 916 micromhos April 30.

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	994	956	979	---	---	---	1060	1030	1040	1100	1070	1090
2	---	---	---	---	---	---	1060	1030	1050	1100	1070	1090
3	---	---	---	---	---	---	1080	1050	1070	1100	1070	1090
4	---	---	---	---	---	---	1090	1070	1080	1090	1060	1080
5	---	---	---	---	---	---	1100	1070	1090	1090	1060	1080
6	---	---	---	---	---	---	1110	1080	1100	1090	1060	1080
7	---	---	---	---	---	---	1120	1090	1110	1080	1060	1080
8	---	---	---	---	---	---	1130	1100	1120	1080	1060	1070
9	---	---	---	---	---	---	1130	1090	1120	1080	1060	1080
10	---	---	---	---	---	---	1140	1110	1130	1100	1060	1080
11	---	---	---	---	---	---	1140	1120	1130	1100	1060	1080
12	---	---	---	---	---	---	1140	1130	1130	1100	1060	1090
13	---	---	---	---	---	---	1140	1120	1130	1090	1060	1080
14	---	---	---	1040	1010	1030	1140	1130	1140	1100	1060	1080
15	---	---	---	1040	1000	1020	1150	1120	1140	1100	1070	1090
16	---	---	---	1030	994	1020	1150	1120	1140	1100	1060	1090
17	---	---	---	1020	988	1010	1160	1120	1150	1100	1060	1080
18	---	---	---	1040	1020	1030	1140	1120	1130	1100	1070	1090
19	---	---	---	1040	1020	1030	1120	1090	1110	1090	1080	1090
20	---	---	---	1050	1010	1030	1100	1080	1090	1100	1080	1090
21	---	---	---	1040	1020	1030	1080	1060	1070	1100	1080	1090
22	---	---	---	1040	1020	1030	1070	1040	1060	1100	1070	1090
23	---	---	---	1040	1020	1030	1070	1040	1060	1110	1080	1100
24	---	---	---	1040	1020	1030	1070	1040	1060	1110	1080	1100
25	---	---	---	1050	1010	1030	1080	1050	1070	1110	1080	1100
26	---	---	---	1050	1020	1040	1080	1050	1070	1110	1080	1100
27	---	---	---	1050	1040	1050	1090	1060	1080	1110	1080	1100
28	---	---	---	1060	1030	1050	1090	1070	1080	1110	1080	1090
29	---	---	---	1060	1030	1050	1100	1070	1090	1110	1070	1100
30	---	---	---	1060	1030	1050	1110	1070	1090	1110	1070	1090
31	---	---	---	---	---	---	1110	1080	1100	1100	1060	1090
MONTH	---	---	---	---	---	---	1160	1030	1100	1110	1060	1090

11110500 HOPPER CREEK NEAR PIRU, CA

LOCATION.--Lat 34°24'03", long 118°49'32", in NE¼NE¼SW¼ sec.25, T.4 N., R.19 W., Ventura County, on downstream end of center pier of bridge on State Highway 126, 1 mi (2 km) upstream from mouth, and 2.1 mi (3.4 km) southwest of Piru.

DRAINAGE AREA.--23.6 mi² (61.1 km²).

PERIOD OF RECORD.--October 1930 to September 1932, October 1933 to September 1936, October 1937 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 590 ft (180 m), from topographic map.

REMARKS.--No regulation above station. Some pumping along stream for irrigation.

COOPERATION.--Records were furnished by Ventura County Flood Control District and reviewed by Geological Survey.

AVERAGE DISCHARGE.--44 years (water years 1931-32, 1934-36, 1938-76) 5.31 ft³/s (0.150 m³/s), 3,850 acre-ft/yr (4.75 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,400 ft³/s (238 m³/s) Jan. 25, 1969, gage height, 12.72 ft (3.877 m), from floodmarks, from rating curve extended above 850 ft³/s (24.1 m³/s) on basis of slope-area measurement of maximum flow; no flow for several months in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 266 ft³/s (7.53 m³/s) Feb. 9 (1030 hrs); maximum gage height, 5.67 ft (1.728 m) Feb. 7 (2300 hrs), no other peaks above base of 150 ft³/s (4.25 m³/s); no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	4.8	0					0
2					0	2.5	0					0
3					0	5.3	0					0
4					0	2.6	0					0
5					.01	.74	0					0
6					4.7	.37	0					0
7					7.2	.18	0					0
8					23	.02	0					0
9					92	.10	0					0
10					39	.62	0					0
11					2.8	0	0					21
12					.52	0	.01					1.3
13					.01	0	.27					0
14					0	0	0					0
15					0	0	0					0
16					0	0	0					0
17					0	0	0					0
18					0	0	0					0
19					0	0	0					0
20					0	0	0					0
21					0	0	0					0
22					0	0	0					0
23					0	0	0					0
24					0	0	0					0
25					0	0	0					0
26					0	0	0					0
27					0	0	0					0
28					0	0	0					0
29					0	0	0					0
30					---	0	0					0
31		---			---	0	---		---			---
TOTAL	0	0	0	0	169.24	17.23	.28	0	0	0	0	22.3
MEAN	0	0	0	0	5.84	.56	.009	0	0	0	0	.74
MAX	0	0	0	0	92	5.3	.27	0	0	0	0	21
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	336	34	.6	0	0	0	0	44
CAL YR 1975	TOTAL	836.34	MEAN	2.29	MAX	207	MIN	0	AC-FT	1660		
WTR YR 1976	TOTAL	209.05	MEAN	.57	MAX	92	MIN	0	AC-FT	415		

SANTA CLARA RIVER BASIN

11111500 SESPE CREEK NEAR WHEELER SPRINGS, CA

LOCATION.--Lat 34°34'40", long 119°15'25", in SE¼NW¼SW¼ sec.30, T.6 N., R.22 W., Ventura County, on right bank at Sespe Gorge, 1.6 mi (2.6 km) upstream from Tule Creek, 5 mi (8 km) upstream from Cold Springs damsite, and 5 mi (8 km) northeast of Wheeler Springs.

DRAINAGE AREA.--49.5 mi² (128.2 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1947 to current year. Daily discharge for period October 1947 to July 1948 estimated on basis of weather records and records for North Fork Matilija Creek.

GAGE.--Water-stage recorder. Datum of gage is 3,500.65 ft (1,066.998 m) above mean sea level (levels by Ventura County Flood Control District).

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

AVERAGE DISCHARGE.--29 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, 9,700 ft³/s (275 m³/s) Jan. 25, 1969, gage height 13.60 ft (4.145 m), from rating curve extended above 3,000 ft³/s (85.0 m³/s) on basis of slope-area measurement of maximum flow; no flow many days in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 50 ft³/s (1.42 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)	
Feb. 9	0600	558	15.8	4.88	1.487	Sept. 29	0500	*1010	28.6	5.87	1.789
Sept. 10	2045	144	4.08	3.36	1.024						

Minimum daily discharge, 0.08 ft³/s (0.002 m³/s) Aug. 25.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	.61	.88	.90	.88	9.5	3.4	2.3	1.3	.63	.20	.10
2	.17	.63	.88	.85	.88	8.9	3.4	2.2	1.3	.55	.19	.10
3	.19	.61	.88	.84	.88	9.5	3.4	2.3	1.1	.62	.18	.10
4	.17	.62	.88	.85	1.0	7.8	5.6	2.3	1.3	.60	.17	.10
5	.17	.61	.88	.88	1.6	7.8	5.7	2.4	1.3	.54	.16	.10
6	.17	.61	.88	.88	1.4	7.8	4.9	2.8	1.3	.45	.16	.10
7	.19	.62	.88	.88	4.0	7.3	4.2	2.7	1.4	.38	.17	.10
8	.24	.69	.88	.88	33	7.3	4.7	2.4	1.7	.43	.17	.10
9	.28	.73	.88	.88	294	6.8	4.2	2.3	2.1	.38	.17	.10
10	.31	.78	.90	.88	131	7.3	3.8	2.3	3.2	.34	.17	15
11	.46	.74	.94	.88	30	6.8	3.5	2.1	3.5	.36	.17	43
12	.43	.74	.88	.88	16	5.9	4.1	1.8	2.3	.34	.17	3.0
13	.40	.81	1.0	.88	11	5.9	5.9	1.6	1.6	.37	.11	.80
14	.41	.85	1.0	.88	9.5	5.5	5.8	1.4	1.3	.34	.17	.74
15	.41	.88	1.0	.88	8.8	5.1	5.1	1.4	.93	.38	.24	.72
16	.42	.88	1.0	.88	8.2	4.7	5.1	1.4	.89	.33	.24	.68
17	.40	.88	.88	.88	7.6	4.7	4.2	1.4	.86	.27	.17	.67
18	.44	.88	.88	.88	7.0	4.7	3.7	1.4	.88	.24	.24	.45
19	.44	.88	.88	.88	6.7	4.4	3.4	1.4	.79	.26	.24	.50
20	.45	.88	.88	.88	6.3	4.4	3.1	1.6	.76	.25	.24	.61
21	.46	.88	.88	.89	6.0	4.0	3.1	1.6	.78	.25	.17	.61
22	.47	.88	.91	.89	5.8	4.0	3.1	1.6	.69	.25	.21	.61
23	.48	.88	1.0	1.0	5.5	4.0	2.8	1.6	.71	.24	.17	.74
24	.48	.88	1.0	1.0	5.3	3.7	2.8	1.6	.74	.24	.11	.88
25	.50	.88	1.0	.99	5.2	3.7	2.5	1.0	.77	.24	.08	1.0
26	.50	.88	.98	.96	5.1	3.7	2.5	1.2	.74	.24	.10	1.2
27	.50	.88	.89	.88	4.8	3.7	2.8	1.4	.61	.23	.10	1.0
28	.49	.92	.88	.88	4.8	4.0	2.8	1.5	.61	.23	.10	2.8
29	.51	.88	.95	.88	5.2	3.7	2.5	1.5	.61	.22	.10	229
30	.59	.88	.97	.88	---	3.4	2.3	1.7	.65	.21	.10	15
31	.61	---	.94	.88	---	3.4	---	1.5	---	.20	.10	---
TOTAL	11.90	23.77	28.56	27.65	627.44	173.4	114.4	55.7	36.72	10.61	5.07	319.91
MEAN	.38	.79	.92	.89	21.6	5.59	3.81	1.80	1.22	.34	.16	10.7
MAX	.61	.92	1.0	1.0	294	9.5	5.9	2.8	3.5	.63	.24	229
MIN	.16	.61	.88	.84	.88	3.4	2.3	1.0	.61	.20	.08	.10
AC-FT	24	47	57	55	1240	344	227	110	73	21	10	635
CAL YR 1975	TOTAL	3301.39	MEAN	9.04	MAX	669	MIN	.16	AC-FT	6550		
WTR YR 1976	TOTAL	1435.13	MEAN	3.92	MAX	294	MIN	.08	AC-FT	2850		

11111500 SESPE CREEK NEAR WHEELER SPRINGS, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1956 (partial record station), February 1962 to current year.
 SEDIMENT RECORDS: Water year 1956 (partial record station).

PERIOD OF DAILY RECORD.--
 WATER TEMPERATURES: February 1962 to current year.

INSTRUMENTATION.--Temperature recorder since February 1962.

REMARKS.--Periods of missing record due to equipment malfunction or probe out of water.

EXTREMES FOR PERIOD OF DAILY RECORD.--
 WATER TEMPERATURES: Maximum, 29.0°C Aug. 11, 1964; minimum, 0.0°C on several days in 1970, 1971, and 1976.

EXTREMES FOR CURRENT YEAR.--
 WATER TEMPERATURES: Maximum recorded, 27.0°C July 20; minimum, 0.0°C Feb. 6.

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	13.0	15.5	11.5	7.0	9.5	9.5	5.0	7.5	3.5	1.0	2.5
2	19.0	13.0	16.0	11.5	7.0	9.5	10.5	7.5	9.0	4.5	1.0	2.5
3	19.5	13.5	16.0	12.0	7.0	10.0	10.0	6.5	8.5	6.0	1.0	3.5
4	19.5	13.5	16.5	12.0	7.0	9.5	9.5	6.5	8.0	6.5	3.0	4.5
5	19.5	13.5	16.0	11.0	7.0	9.0	9.0	5.0	7.0	8.0	3.5	5.5
6	17.0	11.5	14.5	11.5	7.5	9.5	8.0	4.0	6.0	7.0	4.5	5.5
7	15.5	11.0	13.5	13.0	8.5	10.5	7.5	4.0	6.0	7.5	3.0	5.5
8	15.0	9.0	12.0	12.5	9.0	11.0	8.5	4.0	6.0	8.5	4.0	6.0
9	14.5	9.0	12.0	10.0	7.0	8.5	8.5	4.5	6.5	8.0	4.5	6.5
10	15.0	8.5	12.5	11.0	7.0	8.5	10.0	5.5	8.0	7.5	4.5	6.0
11	15.0	13.0	13.5	9.0	5.5	7.5	9.5	6.0	7.5	7.0	3.0	5.0
12	---	---	---	9.0	5.0	7.5	8.5	6.0	7.0	7.5	4.5	6.0
13	---	---	---	9.5	5.0	7.5	7.5	4.5	6.0	8.5	5.0	6.5
14	---	---	---	9.5	6.0	8.0	6.0	3.5	4.5	8.0	4.0	6.0
15	---	---	---	10.0	6.0	8.0	6.5	2.5	4.5	8.5	4.5	6.5
16	---	---	---	10.5	6.5	8.5	6.5	2.5	4.5	10.0	5.5	7.5
17	---	---	---	8.5	4.5	7.0	6.5	2.5	4.5	10.0	5.5	8.0
18	---	---	---	6.5	3.5	5.0	6.5	2.5	4.5	10.5	5.5	8.0
19	---	---	---	6.5	2.5	4.5	6.5	2.5	4.5	10.0	7.5	8.5
20	---	---	---	7.5	3.5	5.5	7.5	3.0	5.5	9.0	5.0	7.0
21	---	---	---	8.0	4.5	6.0	8.0	4.0	6.0	8.0	4.5	6.5
22	---	---	---	8.0	3.5	5.5	7.5	5.0	6.0	9.0	4.5	7.0
23	---	---	---	9.0	5.0	7.0	7.5	4.5	6.0	9.0	5.0	7.0
24	---	---	---	9.5	5.0	7.5	8.5	5.0	6.5	9.0	5.0	7.0
25	11.5	6.0	9.0	10.0	6.5	8.5	9.5	6.5	7.5	8.5	4.5	6.5
26	13.0	8.0	11.0	8.5	5.5	7.0	9.0	5.0	7.0	8.0	3.0	5.5
27	13.0	9.0	11.5	8.5	7.0	7.5	9.0	7.5	8.0	8.5	3.0	6.0
28	11.0	6.5	9.0	7.5	4.5	6.5	10.0	7.0	8.5	9.0	4.0	7.0
29	11.0	6.0	9.0	6.0	3.5	5.0	9.0	5.5	7.5	9.5	4.5	7.0
30	11.0	7.5	9.0	7.0	3.5	5.5	8.5	6.0	7.5	10.5	5.5	8.0
31	12.0	7.5	9.5	---	---	---	6.0	3.0	4.5	10.0	6.0	8.0
MONTH	---	---	---	13.0	2.5	7.5	10.5	2.5	6.5	10.5	1.0	6.0

SANTA CLARA RIVER BASIN

539

11113000 SESPE CREEK NEAR FILLMORE, CA

LOCATION.--Lat 34°27'03", long 118°55'30", in NE¼NW¼NE¼ sec.12, T.4 N., R.20 W., Ventura County, on right bank 0.1 mi (0.2 km) downstream from Little Sespe Creek, and 3.5 mi (5.6 km) north of Fillmore.

DRAINAGE AREA.--251 mi² (650 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1911 to September 1913, October 1927 to current year; combined records of creek and canal, October 1927 to current year. Prior to 1935, published as "at Sespe."

GAGE.--Water-stage recorder on creek; water-stage recorder and Parshall flume on canal. Altitude of creek gage is 580 ft (177 m), from topographic map. Canal gage is at different datum. See WSP 1315-B for history of changes prior to Jan. 17, 1946.

REMARKS.--Records fair. No regulation above station. Fillmore Irrigation Co. has diverted water 1 mi (2 km) upstream since September 1911. For records of combined discharge of Sespe Creek and Fillmore Irrigation Co.'s canal, see following page.

AVERAGE DISCHARGE.--Creek only: 51 years, 103 ft³/s (2.917 m³/s), 74,620 acre-ft/yr (92.0 hm³/yr).

Combined creek and canal: 49 years, 109 ft³/s (3.087 m³/s). 78,970 acre-ft/yr (97.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Creek only: Maximum discharge, 60,000 ft³/s (1,700 m³/s) Jan. 25, 1969, gage height, 20.80 ft (6.340 m), from rating curve extended above 22,000 ft³/s (623 m³/s) on basis of slope-area measurement at gage height 19.0 ft (5.79 m); maximum gage height, 24.95 ft (7.605 m) Feb. 25, 1969, from debris wave; no flow at times in some years.

Combined creek and canal: Maximum discharge, 60,000 ft³/s (1,700 m³/s) Jan. 25, 1969; minimum daily, 1.1 ft³/s (0.031 m³/s) July 31, Aug. 2, 1951.

EXTREMES FOR CURRENT YEAR.--Creek only: Maximum discharge, 3,650 ft³/s (103 m³/s) Feb. 9 (1115 hrs), gage height, 14.39 ft (4.386 m), no other peak above base of 1,300 ft³/s (36.8 m³/s); minimum daily, 0.21 ft³/s (0.006 m³/s) Aug. 29-31.

Combined creek and canal: Maximum discharge, 3,650 ft³/s (103 m³/s) Feb. 9; minimum daily, 3.4 ft³/s (0.096 m³/s) Sept. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.56	.43	5.1	2.6	2.8	70	34	14	4.1	.42	.32	.22
2	.87	.43	1.3	2.6	2.8	125	32	13	3.9	.40	.31	.29
3	.70	.43	1.4	2.6	2.8	114	30	13	2.9	.39	.31	.36
4	.56	.43	1.5	2.5	5.4	83	33	13	2.7	.38	.29	.56
5	.49	.43	1.6	2.6	18	71	33	13	2.4	.37	.30	.40
6	.49	.43	1.6	3.2	71	66	32	14	1.7	.36	.26	.44
7	.49	.43	1.5	3.0	188	64	30	15	1.4	.34	.25	.62
8	.43	.43	1.4	2.9	758	62	32	14	1.3	.32	.25	.38
9	.43	.43	1.5	2.7	2670	61	30	12	1.2	.31	.23	.39
10	.43	.43	1.5	2.9	1550	63	29	11	.85	.31	.26	50
11	.49	.40	1.6	2.9	426	63	26	9.8	1.1	.31	.32	152
12	.56	.38	2.1	2.9	240	59	26	8.7	1.2	.31	.32	29
13	.53	.41	2.4	2.8	171	57	33	7.9	2.0	.33	.31	24
14	.48	.50	2.2	3.1	137	54	33	7.8	.96	.37	.28	15
15	.46	.77	1.8	3.3	121	52	30	7.4	.79	.44	.28	12
16	.43	1.8	1.8	3.2	104	49	29	7.1	.73	.50	.31	10
17	.43	1.1	1.8	3.3	89	49	27	6.8	.71	.58	.32	8.6
18	.48	.81	1.8	3.5	79	52	26	6.6	.65	.63	.28	8.2
19	.47	.82	1.9	3.0	76	53	26	6.5	1.9	.69	.31	7.7
20	.46	.87	2.0	2.6	73	49	28	6.4	.73	.75	.34	7.4
21	.43	.95	2.4	2.5	66	45	28	6.4	.64	.79	.31	7.3
22	.43	.99	2.6	2.5	61	42	25	7.3	.61	.68	.26	7.2
23	.43	1.1	2.6	2.5	57	42	25	7.5	.56	.50	.23	7.0
24	.43	3.6	2.7	2.6	55	42	23	5.8	.51	.43	.28	7.0
25	.43	5.4	2.6	2.6	51	41	20	6.1	.56	.37	.30	7.1
26	.43	2.7	2.4	2.6	50	42	19	6.7	.56	.36	.29	7.4
27	.46	1.4	2.7	2.7	49	40	18	6.6	.51	.34	.28	7.3
28	.48	2.4	3.1	2.8	48	38	18	5.6	.49	.34	.24	7.3
29	.49	3.1	3.1	2.8	50	38	18	4.5	.47	.32	.21	96
30	.49	7.7	2.6	2.8	---	35	17	4.4	.42	.33	.21	143
31	.46	---	2.6	2.8	---	34	---	4.3	---	.33	.21	---
TOTAL	15.20	41.50	67.2	87.4	7271.8	1755	810	272.2	38.55	13.30	8.67	624.16
MEAN	.49	1.38	2.17	2.82	251	56.6	27.0	8.78	1.29	.43	.28	20.8
MAX	.87	7.7	5.1	3.5	2670	125	34	15	4.1	.79	.34	152
MIN	.43	.38	1.3	2.5	2.8	34	17	4.3	.42	.31	.21	.22
AC-FT	30	82	133	173	14420	3480	1610	540	76	26	17	1240
CAL YR 1975	TOTAL	28009.88	MEAN	76.7	MAX	5110	MIN	.38	AC-FT	55560		
WTR YR 1976	TOTAL	11004.98	MEAN	30.1	MAX	2670	MIN	.21	AC-FT	21830		

SANTA CLARA RIVER BASIN

11113000 SESPE CREEK NEAR FILLMORE, CA--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF SESPE CREEK AND FILLMORE IRRIGATION CO.'S CANAL NEAR FILLMORE, CA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	5.8	8.2	9.4	9.3	70	35	23	11	4.8	4.4	3.4
2	5.4	5.7	8.2	9.5	9.4	125	34	22	12	4.9	4.4	3.5
3	5.5	5.7	8.3	9.6	9.5	114	35	21	11	5.0	4.4	3.5
4	5.4	5.6	8.4	9.5	9.7	83	38	22	11	5.0	4.4	3.8
5	5.3	5.6	8.7	9.4	18	71	38	22	12	5.0	4.4	3.8
6	5.4	5.7	8.7	9.9	71	66	37	23	11	4.8	4.2	4.3
7	5.7	5.8	8.6	9.6	188	64	35	24	10	4.4	4.3	4.6
8	5.5	5.8	8.4	9.7	758	62	35	23	11	4.2	4.2	4.4
9	5.5	5.8	8.6	9.8	2670	61	35	22	10	4.2	4.1	4.2
10	5.6	5.6	8.8	9.8	1550	63	34	21	11	4.3	4.1	5.1
11	6.7	5.6	9.0	9.7	426	63	32	19	12	4.4	4.0	152
12	6.6	5.4	9.4	9.7	240	59	33	17	11	4.4	4.0	29
13	6.4	5.2	9.8	9.6	171	57	39	16	11	4.3	4.1	24
14	6.1	5.3	9.5	9.5	137	54	40	15	10	4.5	4.3	15
15	5.9	4.8	9.3	9.5	121	52	37	14	9.4	4.7	4.8	12
16	5.6	5.2	9.3	9.4	104	50	34	14	8.9	4.9	4.9	10
17	5.6	6.2	9.3	9.4	89	50	34	14	8.6	4.9	4.7	8.6
18	5.8	6.4	9.2	9.6	79	54	32	13	7.6	4.8	4.6	8.2
19	5.9	6.5	9.4	9.5	76	55	32	13	7.8	4.9	4.6	7.7
20	5.9	6.9	9.4	9.0	73	50	30	13	7.6	4.9	4.7	7.4
21	5.9	7.1	9.5	9.2	66	46	30	13	7.2	4.9	4.6	7.3
22	6.0	7.2	9.7	9.4	61	43	31	13	6.9	5.0	4.5	7.2
23	5.8	7.2	9.3	9.4	57	43	31	14	6.3	4.8	4.2	7.0
24	5.6	6.6	9.5	9.6	55	43	30	13	5.4	4.5	4.2	7.0
25	5.6	6.8	9.7	9.7	51	42	28	13	5.7	4.4	4.1	7.1
26	5.6	7.8	9.4	9.5	50	43	27	12	5.5	4.2	4.1	7.4
27	5.9	8.1	9.4	9.3	49	40	26	12	5.1	4.2	4.0	7.3
28	5.9	8.3	9.1	9.4	48	38	26	12	5.0	4.1	3.8	7.3
29	5.8	7.8	9.4	9.5	50	38	26	12	4.9	4.2	3.6	96
30	5.9	7.8	9.4	9.6	---	36	25	12	4.8	4.4	3.5	143
31	6.0	---	9.4	9.2	---	35	---	11	---	4.5	3.5	---
TOTAL	179.3	189.3	282.3	294.9	7295.9	1770	979	508	260.7	142.5	131.7	657.0
MEAN	5.78	6.31	9.11	9.51	252	57.1	32.6	16.4	8.69	4.60	4.25	21.9
MAX	6.7	8.3	9.8	9.9	2670	125	40	24	12	5.0	4.9	152
MIN	5.3	4.8	8.2	9.0	9.3	35	25	11	4.8	4.1	3.5	3.4
AC-FT	356	375	560	585	14470	3510	1940	1010	517	283	261	1300
CAL YR 1975	TOTAL	29584.9	MEAN	81.1	MAX	5110	MIN	4.8	AC-FT	58680		
WTR YR 1976	TOTAL	12690.6	MEAN	34.7	MAX	2670	MIN	3.4	AC-FT	25170		

SANTA CLARA RIVER BASIN

11113000 SESPE CREEK NEAR FILLMORE, CA--Continued

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	970	942	955	1120	1060	1090	1100	1060	1090	1100	1070	1090
2	975	943	957	1130	1060	1100	1080	1040	1060	1100	1070	1080
3	969	921	944	1130	1050	1090	1090	1040	1070	1100	1070	1080
4	964	928	943	1130	1050	1090	1090	1060	1080	1090	1060	1080
5	972	936	951	1150	1090	1120	1100	1060	1090	1080	1060	1070
6	983	955	966	1140	1090	1120	1100	1060	1090	1090	1060	1080
7	987	963	973	1140	1070	1100	1110	1070	1090	1080	1060	1070
8	1010	962	979	1120	1060	1090	1100	1060	1090	1090	1060	1080
9	1010	960	982	1110	1040	1080	1110	1060	1090	1100	1070	1080
10	1010	966	985	1090	1040	1070	1110	1080	1100	1090	1070	1080
11	1060	986	1020	1080	1020	1050	1110	1090	1100	1100	1070	1080
12	1020	972	995	1040	981	1020	1110	1100	1100	1110	1070	1080
13	1030	968	991	1040	952	1010	1110	1090	1100	1100	1070	1080
14	1010	954	982	1040	988	1010	1120	1090	1110	1100	1060	1080
15	1020	962	988	1030	995	1010	1120	1090	1110	1080	1060	1070
16	1030	970	995	1030	963	998	1110	1080	1100	1080	1050	1070
17	1030	983	1000	1010	980	997	1110	1070	1100	1080	1050	1070
18	1050	1000	1020	1030	1000	1020	1110	1070	1100	1080	1060	1070
19	1060	1010	1030	1040	999	1020	1110	1080	1100	1090	1060	1080
20	1050	1000	1020	1040	1000	1020	1110	1090	1100	1090	1060	1070
21	1060	1010	1040	1030	1000	1020	1110	1080	1100	1090	1060	1080
22	1080	1030	1050	1020	993	1010	1110	1070	1090	1090	1060	1080
23	1100	1020	1060	1030	1000	1020	1090	1060	1080	1090	1070	1080
24	1100	1030	1060	1060	1020	1040	1090	1060	1080	1090	1070	1080
25	1110	1040	1070	1070	1050	1070	1100	1050	1080	1090	1070	1080
26	1110	1030	1070	1080	1050	1060	1080	1050	1070	1090	1060	1080
27	1100	1040	1070	1060	1050	1050	1090	1050	1070	1090	1060	1080
28	1120	1040	1070	1090	1050	1070	1080	1050	1070	1090	1040	1070
29	1100	1030	1070	1090	1050	1080	1080	1050	1070	1080	1040	1070
30	1100	1060	1080	1100	1070	1090	1090	1050	1080	1080	1050	1070
31	1130	1050	1080	---	---	---	1100	1070	1090	1080	1050	1070
MONTH	1130	921	1010	1150	952	1050	1120	1040	1090	1110	1040	1080

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1080	1050	1070	866	738	818	806	798	802	817	737	779
2	1090	1060	1070	828	566	764	809	801	805	840	742	794
3	1090	1060	1070	726	644	680	812	806	809	822	800	812
4	1120	1070	1090	770	696	741	813	805	809	831	771	808
5	1090	973	1060	799	773	791	814	808	812	834	810	823
6	1080	782	1000	808	800	803	813	803	809	843	805	827
7	801	563	730	818	810	814	812	800	806	834	776	808
8	739	379	576	823	815	819	814	798	805	856	774	816
9	501	309	364	824	814	818	820	806	813	854	780	820
10	446	352	393	819	815	816	819	805	813	884	780	820
11	558	434	506	816	812	814	819	807	814	---	---	---
12	624	560	595	817	813	815	823	799	813	---	---	---
13	662	626	643	820	814	816	824	800	814	---	---	---
14	680	664	670	818	812	815	823	811	818	---	---	---
15	728	632	683	819	811	814	819	807	815	---	---	---
16	754	484	604	818	812	815	820	806	815	---	---	---
17	---	---	---	815	805	811	821	805	815	---	---	---
18	---	---	---	813	803	808	822	802	813	---	---	---
19	844	836	841	806	790	799	821	797	809	---	---	---
20	849	843	847	793	777	785	815	791	803	---	---	---
21	847	839	842	782	774	777	810	786	799	---	---	---
22	850	846	847	784	776	779	809	785	799	---	---	---
23	860	852	857	793	783	787	806	772	791	---	---	---
24	865	859	864	798	792	794	800	768	787	---	---	---
25	873	867	870	800	792	796	809	763	787	861	825	845
26	880	874	876	799	791	795	807	771	789	857	823	841
27	884	878	881	794	778	791	814	774	795	854	818	837
28	876	868	872	794	782	787	810	776	796	853	831	846
29	864	850	861	795	785	789	821	765	796	867	815	844
30	---	---	---	802	794	797	820	752	787	862	816	843
31	---	---	---	805	795	800	---	---	---	864	806	839
MONTH	1120	309	799	866	566	795	824	752	805	---	---	---

SANTA CLARA RIVER BASIN

11113000 SESPE CREEK NEAR FILLMORE, CA--Continued

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

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	.56	5	.01	.43	5	.01	5.1	4	.06
2	.87	5	.01	.43	6	.01	1.3	5	.02
3	.70	5	.01	.43	7	.01	1.4	5	.02
4	.56	5	.01	.43	7	.01	1.5	4	.02
5	.49	5	.01	.43	7	.01	1.6	3	.01
6	.49	6	.01	.43	7	.01	1.6	3	.01
7	.49	6	.01	.43	7	.01	1.5	3	.01
8	.43	6	.01	.43	7	.01	1.4	2	.01
9	.43	6	.01	.43	7	.01	1.5	2	.01
10	.43	6	.01	.43	7	.01	1.5	2	.01
11	.49	6	.01	.40	7	.01	1.6	3	.01
12	.56	5	.01	.38	7	.01	2.1	4	.02
13	.53	4	.01	.41	7	.01	2.4	5	.03
14	.48	3	0	.50	7	.01	2.2	4	.02
15	.46	3	0	.77	7	.01	1.8	3	.01
16	.43	3	0	1.8	20	.10	1.8	2	.01
17	.43	4	0	1.1	20	.06	1.8	2	.01
18	.48	5	.01	.81	19	.04	1.8	2	.01
19	.47	5	.01	.82	18	.04	1.9	3	.02
20	.46	4	0	.87	17	.04	2.0	3	.02
21	.43	3	0	.95	17	.04	2.4	5	.03
22	.43	2	0	.99	15	.04	2.6	7	.05
23	.43	2	0	1.1	13	.04	2.6	3	.02
24	.43	2	0	3.6	20	.19	2.7	3	.02
25	.43	2	0	5.4	12	.17	2.6	4	.03
26	.43	2	0	2.7	10	.07	2.4	5	.03
27	.46	2	0	1.4	5	.02	2.7	5	.04
28	.48	2	0	2.4	2	.01	3.1	5	.04
29	.49	3	0	3.1	3	.03	3.1	4	.03
30	.49	5	.01	7.7	10	.21	2.6	4	.03
31	.46	4	0	---	---	---	2.6	3	.02
TOTAL	15.20	---	.16	41.50	---	1.25	67.2	---	.68
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	2.6	2	.01	2.8	2	.02	70	61	12
2	2.6	2	.01	2.8	3	.02	125	138	47
3	2.6	2	.01	2.8	3	.02	114	62	19
4	2.5	2	.01	5.4	4	.06	83	11	2.5
5	2.6	2	.01	18	18	.87	71	8	1.5
6	3.2	4	.03	71	79	15	66	5	.89
7	3.0	3	.02	188	195	99	64	3	.52
8	2.9	3	.02	758	783	1600	62	2	.33
9	2.7	3	.02	2670	1560	11200	61	2	.33
10	2.9	3	.02	1550	726	3040	63	3	.51
11	2.9	3	.02	426	160	184	63	3	.51
12	2.9	3	.02	240	50	32	59	3	.48
13	2.8	4	.03	171	30	14	57	3	.46
14	3.1	5	.04	137	20	7.4	54	3	.44
15	3.3	4	.04	121	15	4.9	52	3	.42
16	3.2	3	.03	104	10	2.8	49	3	.40
17	3.3	3	.03	89	5	1.2	49	3	.40
18	3.5	3	.03	79	3	.64	52	2	.28
19	3.0	2	.02	76	2	.41	53	2	.29
20	2.6	2	.01	73	2	.39	49	2	.26
21	2.5	2	.01	66	2	.36	45	2	.24
22	2.5	2	.01	61	1	.16	42	2	.23
23	2.5	2	.01	57	1	.15	42	2	.23
24	2.6	2	.01	55	1	.15	42	4	.45
25	2.6	2	.01	51	1	.14	41	5	.55
26	2.6	2	.01	50	1	.14	42	5	.57
27	2.7	3	.02	49	1	.13	40	10	1.1
28	2.8	2	.02	48	1	.13	38	15	1.5
29	2.8	2	.02	50	1	.14	38	15	1.5
30	2.8	2	.02	---	---	---	35	18	1.7
31	2.8	2	.02	---	---	---	34	10	.92
TOTAL	87.4	---	.59	7271.8	---	16204.23	1755	---	97.51

11113000 SESPE CREEK NEAR FILLMORE, CA--Continued

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

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	34	8	.73	14	4	.15	4.1	2	.02
2	32	6	.52	13	4	.14	3.9	2	.02
3	30	4	.32	13	5	.18	2.9	1	.01
4	33	3	.27	13	6	.21	2.7	1	.01
5	33	3	.27	13	5	.18	2.4	1	.01
6	32	3	.26	14	5	.19	1.7	1	0
7	30	3	.24	15	5	.20	1.4	1	0
8	32	10	.86	14	4	.15	1.3	1	0
9	30	10	.81	12	3	.10	1.2	1	0
10	29	7	.55	11	3	.09	.85	1	0
11	26	7	.49	9.8	3	.08	1.1	2	.01
12	26	7	.49	8.7	3	.07	1.2	2	.01
13	33	7	.62	7.9	3	.06	2.0	5	.03
14	33	7	.62	7.8	5	.11	.96	6	.02
15	30	6	.49	7.4	3	.06	.79	7	.01
16	29	6	.47	7.1	2	.04	.73	7	.01
17	27	6	.44	6.8	2	.04	.71	7	.01
18	26	6	.42	6.6	2	.04	.65	11	.02
19	26	10	.70	6.5	2	.04	1.9	15	.08
20	28	20	1.5	6.4	2	.03	.73	15	.03
21	28	20	1.5	6.4	2	.03	.64	14	.02
22	25	10	.68	7.3	3	.06	.61	13	.02
23	25	5	.34	7.5	3	.06	.56	10	.02
24	23	3	.19	5.8	3	.05	.51	8	.01
25	20	3	.16	6.1	3	.05	.56	6	.01
26	19	3	.15	6.7	3	.05	.56	6	.01
27	18	3	.15	6.6	3	.05	.51	8	.01
28	18	3	.15	5.6	2	.03	.49	10	.01
29	18	3	.15	4.5	2	.02	.47	10	.01
30	17	4	.18	4.4	2	.02	.42	7	.01
31	---	---	---	4.3	2	.02	---	---	---
TOTAL	810	---	14.72	272.2	---	2.60	38.55	---	.43
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	.42	3	0	.32	2		.22	2	0
2	.40	3	0	.31	2		.29	2	0
3	.39	3	0	.31	2		.36	2	0
4	.38	3	0	.29	2		.56	2	0
5	.37	3	0	.30	2		.40	2	0
6	.36	3	0	.26	2		.44	2	0
7	.34	3	0	.25	2		.62	2	0
8	.32	3	0	.25	2		.38	3	0
9	.31	3	0	.23	2		.39	5	.01
10	.31	3	0	.26	2		50	102	14
11	.31	5	0	.32	2		152	331	136
12	.31	8	.01	.32	2		29	63	4.9
13	.33	5	0	.31	2		24	20	1.3
14	.37	3	0	.28	2		15	10	.41
15	.44	3	0	.28	2		12	5	.16
16	.50	3	0	.31	2		10	4	.11
17	.58	3	0	.32	2		8.6	4	.09
18	.63	3	.01	.28	2		8.2	3	.07
19	.69	3	.01	.31	2		7.7	3	.06
20	.75	3	.01	.34	3		7.4	2	.04
21	.79	3	.01	.31	3		7.3	2	.04
22	.68	3	.01	.26	3		7.2	2	.04
23	.50	3	0	.23	3		7.0	1	.02
24	.43	3	0	.28	3		7.0	1	.02
25	.37	3	0	.30	3		7.1	1	.02
26	.36	3	0	.29	3		7.4	1	.02
27	.34	3	0	.28	3		7.3	1	.02
28	.34	3	0	.24	3		7.3	1	.02
29	.32	3	0	.21	3		96	527	137
30	.33	3	0	.21	3		143	1410	544
31	.33	3	0	.21	3		---	---	---
TOTAL	13.30	---	.06	8.67	---	0	624.16	---	838.35
YEAR 11004.98				17160.58					

SANTA CLARA RIVER BASIN

11113000 SESPE CREEK NEAR FILLMORE, CA--Continued

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

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT DIS- CHARGE (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
FEB									
06...	1000	9.0	64	72	12	--	--	--	--
07...	1530	9.5	108	297	87	48	64	80	93
08...	1040	10.0	557	362	544	43	58	71	81
09...	1410	9.0	2930	1650	13100	21	30	45	60
10...	1345	10.0	1120	493	1490	35	48	62	75
MAR									
03...	1540	10.5	97	32	8.4	--	--	--	--
SEP									
11...	1520	19.5	97	241	63	37	47	60	76

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

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
FEB									
06...	--	--	99	--	100	--	--	--	--
07...	98	--	99	--	100	--	--	--	--
08...	87	--	90	--	95	--	98	--	100
09...	75	84	--	90	--	95	--	100	--
10...	84	--	90	--	95	--	99	--	100
MAR									
03...	--	--	98	--	100	--	--	--	--
SEP									
11...	91	--	98	--	100	--	--	--	--

SANTA CLARA RIVER BASIN

11113500 SANTA PAULA CREEK NEAR SANTA PAULA, CA

LOCATION.--Lat 34°23'44", long 119°04'32", in NW¼SW¼SW¼ sec.27, T.4 N., R.21 W., Ventura County, on right bank 15 ft (5 m) upstream from Santa Paula Water Works diversion dam, 200 ft (61 m) upstream from Mud Creek, and 3 mi (5 km) north of Santa Paula.

DRAINAGE AREA.--40.0 mi² (103.6 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1927 to current year. March 1912 to September 1913, at site 2.5 mi (4.0 km) upstream; records not equivalent.

GAGE.--Water-stage recorder and concrete diversion dam control. Datum of gage is 619.43 ft (188.802 m) above mean sea level (Corps of Engineers bench mark). Oct. 1, 1927, to Feb. 19, 1931, at site 500 ft (152 m) downstream at different datum. Feb. 20, 1931, to Dec. 5, 1963, and July 30, 1965, to May 5, 1969, at datum 3.00 ft (0.914 m) higher. Dec. 6, 1963, to July 29, 1965, at site 50 ft (15 m) upstream at datum 3.00 ft (0.914 m) higher. Datum published prior to 1976 water year as 638.59 ft (194.642 m) is in error.

REMARKS.--Records good. No regulation above station. Diversion above station for irrigation of 60 acres (243,000 m²) by Santa Paula Water Works began prior to October 1927; 449 acre-ft (554,000 m³) was diverted during current year.

COOPERATION.--Records of diversion were furnished by Santa Paula Water Works.

AVERAGE DISCHARGE.--49 years, 21.3 ft³/s (0.603 m³/s), 15,430 acre-ft/yr (19.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,000 ft³/s (595 m³/s) Feb. 25, 1969, gage height, 18.18 ft (5.541 m), from floodmark, present datum, from rating curve extended above 2,300 ft³/s (65.1 m³/s) on basis of critical-depth measurement at gage height 15.2 ft (4.63 m); no flow at times in 1949, 1951-52, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 458 ft³/s (13.0 m³/s) Feb. 9 (0715 hrs), gage height 7.96 ft (2.426 m), no other peak above base of 200 ft³/s (5.66 m³/s); minimum daily, 0.16 ft³/s (0.005 m³/s) Aug. 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	1.9	3.4	2.8	3.8	27	6.1	3.8	3.7	1.3	.72	.60
2	2.2	2.1	3.4	3.0	3.4	28	6.1	4.1	3.6	1.4	.62	.69
3	2.0	1.8	3.2	3.0	3.6	23	6.3	4.5	3.2	1.5	.96	.84
4	1.9	1.6	3.4	3.0	3.8	17	7.8	4.9	3.0	1.5	1.0	.69
5	1.8	1.7	3.4	3.1	6.4	14	6.8	5.1	3.1	1.4	.90	.28
6	1.9	1.9	3.2	2.9	9.7	14	6.3	5.3	3.3	1.3	.79	.28
7	2.0	2.2	3.1	3.0	23	13	5.9	5.1	3.1	1.2	.84	.29
8	2.0	2.3	2.3	3.4	27	12	6.7	4.6	2.9	1.2	.90	.39
9	2.1	2.2	1.9	3.4	288	12	5.9	4.0	3.0	1.2	.84	.42
10	2.2	2.3	2.1	3.8	98	13	5.6	3.8	5.4	1.2	.79	6.8
11	2.7	2.3	2.2	3.8	39	12	6.6	3.5	3.9	1.3	.84	22
12	2.7	2.1	2.8	3.2	28	12	6.9	3.0	3.3	1.3	.74	7.4
13	2.7	2.0	3.1	2.8	21	11	8.1	3.1	2.9	1.2	.95	5.5
14	2.6	2.1	3.1	3.0	17	10	6.8	2.7	2.6	1.2	1.1	4.7
15	2.6	2.3	3.0	2.8	15	9.2	7.2	2.8	2.2	1.4	1.5	4.2
16	2.5	2.5	2.8	3.0	14	9.2	6.9	3.0	1.8	1.4	1.5	3.9
17	2.6	2.5	3.0	3.4	12	8.8	6.8	2.9	1.7	1.5	1.3	3.7
18	3.0	2.3	2.8	3.6	11	9.2	6.6	2.8	2.0	1.5	1.2	3.4
19	3.0	2.5	2.8	3.0	11	9.5	6.2	2.9	2.0	1.4	1.1	3.2
20	3.0	2.5	3.0	2.8	11	9.2	5.9	3.0	1.9	1.3	1.2	3.3
21	3.1	2.3	2.8	2.7	10	8.5	5.4	3.3	1.7	1.3	1.1	3.0
22	2.8	2.2	2.7	2.8	9.7	8.2	5.4	3.6	1.5	1.4	1.5	2.8
23	3.0	2.3	2.7	2.8	9.4	7.8	5.5	3.7	1.3	1.4	1.0	2.6
24	2.8	2.4	2.5	3.2	9.1	7.8	4.9	3.9	1.3	1.3	.69	2.5
25	2.7	2.4	2.3	3.2	9.0	7.8	5.1	3.7	1.2	1.2	.79	2.6
26	2.8	2.3	2.5	3.0	8.7	7.5	4.9	2.9	1.1	.89	.69	2.7
27	2.8	2.7	2.4	3.0	8.3	7.4	5.2	2.9	1.2	.44	.56	2.7
28	2.6	3.1	2.5	3.2	7.8	7.7	5.4	3.0	1.3	.56	.51	2.9
29	2.2	3.1	2.7	3.4	7.8	7.7	5.1	3.8	1.3	.47	.43	2.4
30	1.8	3.2	2.7	3.4	---	6.9	4.6	3.6	1.3	.62	.16	6.6
31	1.8	---	2.9	3.8	---	6.1	---	3.8	---	.74	.56	---
TOTAL	76.2	69.1	86.7	97.3	725.5	356.5	183.0	113.1	71.8	37.02	27.78	124.98
MEAN	2.46	2.30	2.80	3.14	25.0	11.5	6.10	3.65	2.39	1.19	.90	4.17
MAX	3.1	3.2	3.4	3.8	288	28	8.1	5.3	5.4	1.5	1.5	.24
MIN	1.8	1.6	1.9	2.7	3.4	6.1	4.6	2.7	1.1	.44	.16	.28
AC-FT	151	137	172	193	1440	707	363	224	142	73	55	248
CAL YR 1975 TOTAL	5280.30			MEAN 14.5	MAX 416	MIN 1.6	AC-FT 10470					
WTR YR 1976 TOTAL	1968.98			MEAN 5.38	MAX 288	MIN .16	AC-FT 3910					

SANTA CLARA RIVER BASIN

11113500 SANTA PAULA CREEK NEAR SANTA PAULA, CA--Continued

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	856	720	811	868	752	833	892	784	855	905	841	878
2	867	715	810	866	756	830	888	780	853	899	831	872
3	853	711	803	861	755	826	892	788	859	897	821	868
4	844	706	798	861	751	824	894	804	862	899	829	869
5	842	710	799	864	756	829	886	790	855	918	845	886
6	841	717	800	872	752	834	886	792	854	930	836	900
7	833	713	793	879	763	843	882	786	850	934	842	900
8	834	716	794	889	776	858	882	790	848	942	844	906
9	833	707	792	893	775	852	888	778	853	942	844	908
10	837	715	796	889	779	850	888	794	853	966	864	928
11	850	722	797	890	778	853	884	822	862	980	894	949
12	834	726	794	886	780	851	890	844	877	982	886	947
13	825	707	785	881	771	847	897	825	872	978	880	945
14	821	713	784	888	762	843	927	855	898	986	880	947
15	824	712	787	901	795	866	935	865	911	976	874	939
16	829	717	793	906	802	875	931	857	906	976	858	936
17	835	725	798	911	811	880	931	849	904	976	868	935
18	854	766	826	914	820	878	937	847	911	974	866	930
19	870	756	832	914	806	876	937	851	907	968	862	931
20	871	757	835	916	802	873	933	847	905	974	868	934
21	871	751	834	908	794	872	931	841	901	974	862	936
22	872	758	840	904	798	869	925	841	898	972	868	934
23	877	769	843	900	790	865	923	829	891	974	858	933
24	879	771	844	898	792	860	919	833	887	970	852	924
25	878	760	840	906	790	860	915	833	885	962	852	923
26	872	754	835	900	788	859	911	817	875	964	858	922
27	875	743	831	920	812	872	909	817	873	962	848	919
28	867	747	829	904	794	864	905	821	873	956	836	915
29	866	746	829	900	798	862	905	809	872	970	832	919
30	867	799	845	892	800	860	909	819	874	960	854	923
31	865	753	831	---	---	---	909	833	879	990	892	957
MONTH	879	706	814	920	751	855	937	778	878	990	821	920
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1020	904	981	835	635	717	---	---	---	790	704	757
2	1020	914	980	686	580	655	---	---	---	792	708	760
3	1020	916	982	725	653	703	---	---	---	790	772	783
4	1020	982	1010	729	701	714	---	---	---	788	724	765
5	1060	802	973	724	714	718	---	---	---	812	768	781
6	1030	808	1040	707	693	703	---	---	---	792	734	772
7	1450	578	931	712	696	704	770	676	741	788	698	757
8	951	543	787	709	697	705	775	705	749	822	730	782
9	495	191	370	708	694	704	772	678	743	834	742	803
10	540	310	453	782	688	710	775	683	745	834	744	806
11	550	472	513	711	687	692	775	689	743	838	742	803
12	505	465	482	694	680	688	776	710	747	843	739	805
13	539	505	521	700	684	694	791	723	755	845	743	809
14	574	536	561	708	692	701	786	710	762	850	748	811
15	643	563	576	712	694	704	789	729	768	850	748	810
16	655	633	646	716	692	705	788	694	755	842	754	812
17	696	668	683	712	686	701	781	687	750	841	757	811
18	726	684	705	710	678	696	780	686	749	839	761	811
19	731	701	717	700	670	688	778	680	745	840	760	810
20	740	704	724	698	672	688	779	681	745	836	758	807
21	754	736	746	---	---	---	782	684	747	836	766	810
22	777	745	764	---	---	---	785	707	757	833	767	808
23	805	775	787	---	---	---	782	684	746	833	773	806
24	846	796	825	---	---	---	788	692	754	826	780	801
25	855	835	845	---	---	---	784	698	754	842	764	807
26	856	840	850	---	---	---	788	706	759	858	788	829
27	854	836	847	---	---	---	790	728	767	863	795	834
28	847	825	839	---	---	---	782	712	757	865	831	850
29	844	820	836	---	---	---	782	698	753	836	804	824
30	---	---	---	---	---	---	786	698	755	840	804	827
31	---	---	---	---	---	---	---	---	---	844	812	833
MONTH	1450	191	758	---	---	---	791	676	752	865	698	803

SANTA CLARA RIVER BASIN

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11113900 SATICOY DIVERSION NEAR SATICOY, CA

LOCATION.--Lat 34°17'06", long 119°07'14", in Santa Paula Y Saticoy Grant, Ventura County, on diversion ditch 0.7 mi (1.1 km) downstream from Santa Clara River, and 1.5 mi (2.4 km) east of Saticoy.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1969 to current year. October 1928 to April 1969 in files of United Water Conservation District.

GAGE.--Water-stage recorder. Altitude of gage is 160 ft (49 m), from topographic map.

REMARKS.--Water is diverted from left bank of Santa Clara River to percolation basin near Los Angeles Avenue (State Highway 118) and for irrigation in Pleasant Valley. See station 11110000, Piru Creek near Piru, for report of controlled releases from Lake Piru. Imported water from the California Water Project released to the basin at Castaic Dam and Pyramid Dam since 1972.

COOPERATION.--Records were furnished by United Water Conservation District; one discharge measurement was made by Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 411 ft³/s (11.6 m³/s) Mar. 15, 1975; no flow at times in most years.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	18	16	23	15	89	55	34	25	11	5.6	2.0
2	16	16	16	22	16	104	57	35	22	14	5.1	2.2
3	16	16	16	22	16	200	57	35	22	9.9	4.9	2.7
4	16	17	16	23	17	115	62	32	22	11	4.4	2.9
5	16	18	16	24	26	97	60	33	22	11	4.0	3.4
6	16	18	16	23	37	88	56	32	21	11	3.4	4.4
7	16	18	16	23	0	84	56	31	22	9.3	3.6	6.7
8	16	18	16	23	0	82	61	32	22	8.4	4.0	6.0
9	16	18	17	24	0	81	63	31	21	7.2	3.4	7.0
10	16	18	18	23	7.2	97	63	32	17	7.5	4.6	12
11	16	19	18	23	190	86	61	31	19	8.7	5.1	42
12	16	20	19	23	330	82	60	31	19	11	4.2	53
13	17	17	19	23	229	77	63	30	19	12	4.0	32
14	18	16	20	23	181	75	61	30	18	13	5.3	24
15	17	16	20	23	157	73	60	29	20	11	6.5	21
16	17	15	20	14	138	71	56	30	18	7.8	7.5	23
17	16	16	20	13	107	69	50	29	18	7.5	8.3	20
18	15	16	21	13	93	70	50	26	18	9.0	6.7	20
19	15	16	21	14	86	73	50	26	19	9.9	6.0	20
20	17	16	20	16	84	71	47	26	18	9.3	5.6	20
21	18	17	20	16	79	69	43	26	19	8.7	5.6	21
22	18	17	20	16	72	66	39	26	18	7.8	5.6	21
23	19	16	21	16	68	64	38	26	17	8.7	5.8	21
24	21	18	21	16	64	63	37	26	16	8.1	7.0	20
25	18	21	20	16	57	64	39	24	15	8.7	4.4	22
26	17	21	23	16	57	63	39	25	13	9.0	3.8	24
27	19	18	23	15	57	63	39	23	8.2	7.8	2.9	23
28	20	17	24	15	56	64	32	23	8.2	8.4	2.5	24
29	20	16	24	15	55	63	26	24	10	9.3	2.7	48
30	20	16	23	15	---	61	29	24	9.1	7.8	3.4	125
31	21	---	23	14	---	58	---	24	---	7.2	3.3	---
TOTAL	536	519	603	585	2294.2	2482	1509	886	535.5	291.0	149.2	673.3
MEAN	17.3	17.3	19.5	18.9	79.1	80.1	50.3	28.6	17.9	9.39	4.81	22.4
MAX	21	21	24	24	330	200	63	35	25	14	8.3	125
MIN	15	15	16	13	0	58	26	23	8.2	7.2	2.5	2.0
AC-FT	1060	1030	1200	1160	4550	4920	2990	1760	1060	577	296	1340

CAL YR 1975 TOTAL 27541.00 MEAN 75.5 MAX 411 MIN 0 AC-FT 54630
WTR YR 1976 TOTAL 11063.20 MEAN 30.2 MAX 330 MIN 0 AC-FT 21940

SANTA CLARA RIVER BASIN

11114000 SANTA CLARA RIVER AT MONTALVO, CA

LOCATION.--Lat 34°14'31", long 119°11'21", in San Miguel Grant, Ventura County, on downstream end of center pier southbound bridge on U.S. Highway 101, 0.9 mi (1.4 km) southeast of Montalvo.

DRAINAGE AREA.--1,612 mi² (4,175 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1927 to September 1932, October 1949 to current year. Monthly discharge only for 1950-67, published in WRD 1968 report. October 1949 to September 1969, published as "at Saticoy."

GAGE.--Water-stage recorder. Datum of gage is 51.88 ft (15.813 m) above mean sea level (levels by Ventura County Flood Control District). Oct. 1, 1927, to Sept. 30, 1932, and Oct. 1, 1949, to Sept. 30, 1967, at same site at different datums. Oct. 1, 1967, to Feb. 2, 1970, at site 3.9 mi (6.3 km) upstream at different datum.

REMARKS.--Records good. Flow partly regulated since May 1955 by Lake Piru (station 11109700), since December 1971 by Pyramid Dam, capacity, 173,500 acre-ft (214 hm³), and since January 1972 by Castaic Reservoir, capacity, 324,000 acre-ft (399 hm³). Natural flow affected by ground-water withdrawals, diversions, municipal use, and ground-water replenishment. Imported water from the California Water Project released to the basin at Castaic Dam and Pyramid Dam. Diversion to spreading grounds and for irrigation in Pleasant Valley, at site 6.0 mi (9.7 km) upstream (station 11113900). AVERAGE DISCHARGE represents flow to the ocean regardless of upstream development.

COOPERATION.--Four discharge measurements were furnished by Ventura County Flood Control District.

AVERAGE DISCHARGE.--32 years, 112 ft³/s (3.172 m/s), 81,140 acre-ft/yr (100 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 165,000 ft³/s (4,670 m³/s) Jan. 25, 1969, gage height, 17.41 ft (5.307 m), present datum; no flow for long periods in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 2, 1938, 120,000 ft³/s (3,400 m³/s), estimated by Ventura County Flood Control District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,420 ft³/s (153 m³/s) Feb. 9, gage height, 5.58 ft (1.701 m); no flow many months.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	.01	0					0
2					0	.01	0					0
3					0	.02	0					0
4					0	.02	.01					0
5					0	.02	.01					0
6					0	.01	0					0
7					2.9	.02	0					0
8					297	.04	0					0
9					2800	.02	0					0
10					2600	.04	0					0
11					504	.02	0					0
12					15	.02	.01					0
13					1.3	.02	.06					0
14					.56	.09	.07					0
15					.33	.02	.07					0
16					.20	.04	.04					0
17					.15	.06	.02					0
18					.13	.04	0					0
19					.12	.04	0					0
20					.10	.04	0					0
21					.08	.02	0					0
22					.07	.02	0					0
23					.05	.01	0					0
24					.06	.01	0					0
25					.04	.04	0					0
26					.04	.04	0					0
27					.02	.02	0					0
28					.02	.01	0					0
29					.02	.01	0					189
30					---	0	0					.61
31		---			---	0	---		---			---
TOTAL	0	0	0	0	6222.19	.83	.29	0	0	0	0	189.61
MEAN	0	0	0	0	215	.027	.010	0	0	0	0	6.32
MAX	0	0	0	0	2800	.09	.07	0	0	0	0	189
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	12340	1.6	.6	0	0	0	0	376
CAL YR 1975	TOTAL	21699.08	MEAN	59.4	MAX	7110	MIN	0	AC-FT	43040		
WTR YR 1976	TOTAL	6412.92	MEAN	17.5	MAX	2800	MIN	0	AC-FT	12720		

11114000 SANTA CLARA RIVER AT MONTALVO, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1967 to September 1969, October 1970 to current year.

SEDIMENT RECORDS: October 1967 to current year.

Prior to October 1969, published as "at Saticoy" (station 11113920).

REMARKS.--Sediment table omitted for period of no flow during October to December.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS:--Maximum daily mean, 69,200 mg/l Feb. 25, 1969; minimum daily mean, no flow for many days each year.

SEDIMENT DISCHARGE: Maximum daily, 20,400,000 tons (18,500,000 tonnes) Feb. 25, 1969; minimum daily, 0 tons on many days each year.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 4,410 mg/l Feb. 9; minimum daily mean, no flow for many days.

SEDIMENT DISCHARGE: Maximum daily, 44,400 tons (40,300 tonnes) Feb. 9; minimum daily 0 tons on many days.

REVISIONS.--The bedload curve used for water year 1975 was in error. The 1975 total load computations were rerun and are published with 1976 water year records.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					---	13.0						---
2					---	14.0						---
3					---	11.0						---
4					---	9.0						---
5					---	---						---
6					---	---						---
7					---	9.0						---
8					7.5	---						---
9					12.0	---						---
10					10.5	17.0						---
11					10.0	---						---
12					10.5	---						---
13					11.0	---						---
14					---	---						---
15					---	---						---
16					15.0	---						---
17					---	---						---
18					---	---						---
19					---	---						---
20					---	---						---
21					---	---						---
22					---	---						---
23					---	---						---
24					---	22.0						---
25					17.5	---						---
26					---	---						---
27					---	---						---
28					---	---						---
29					---	---						---
30					---	---						18.0
31					---	---						21.0
MONTH					---	---						---

SANTA CLARA RIVER BASIN

11114000 SANTA CLARA RIVER AT MONTALVO, CA--Continued

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

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				0	0	0	.01	50	0
2				0	0	0	.01	57	0
3				0	0	0	.02	43	0
4				0	0	0	.02	41	0
5				0	0	0	.02	49	0
6				0	0	0	.01	55	0
7				2.9	21	3.1	.02	63	0
8				297	586	565	.04	60	.01
9				2800	4410	44400	.02	55	0
10				2600	2260	19000	.04	50	.01
11				504	302	581	.02	50	0
12				15	29	2.0	.02	45	0
13				1.3	7	.02	.02	45	0
14				.56	5	.01	.09	40	.01
15				.33	18	.02	.07	35	.01
16				.20	36	.02	.04	30	0
17				.15	30	.01	.06	25	0
18				.13	25	.01	.04	20	0
19				.12	25	.01	.04	15	0
20				.10	30	.01	.04	10	0
21				.08	30	.01	.02	5	0
22				.07	30	.01	.02	5	0
23				.05	35	0	.01	5	0
24				.06	35	.01	.01	5	0
25				.04	35	0	.04	5	0
26				.04	40	0	.04	5	0
27				.02	40	0	.02	5	0
28				.02	45	0	.01	5	0
29				.02	45	0	.01	5	0
30				---	---	---	0	0	0
31				---	---	---	0	0	0
TOTAL	0	0	0	6222.19	---	64551.24	.83	---	.04

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

11114000 SANTA CLARA RIVER AT MONTALVO, CA--Continued

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

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							0	0	0
2							0	0	0
3							0	0	0
4							0	0	0
5							0	0	0
6							0	0	0
7							0	0	0
8							0	0	0
9							0	0	0
10							0	0	0
11							0	0	0
12							0	0	0
13							0	0	0
14							0	0	0
15							0	0	0
16							0	0	0
17							0	0	0
18							0	0	0
19							0	0	0
20							0	0	0
21							0	0	0
22							0	0	0
23							0	0	0
24							0	0	0
25							0	0	0
26							0	0	0
27							0	0	0
28							0	0	0
29							189	1640	3050
30							.61	48	.17
31							---	---	---
TOTAL	0	0	0	0	0	0	189.61	---	3050.17
YEAR	6412.92		67601.45						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1974	0.0	0.0	0	0
NOVEMBER ...	0.0	0.0	0	0
DECEMBER ...	4666.88	131956.90	25200	157000
JANUARY 1975	1.67	0.09	0	0
FEBRUARY ...	3030.72	2273.82	2640	4920
MARCH	17931.46	397667.53	104000	502000
APRIL	734.42	4182.28	422	4600
MAY	0.81	0.0	0	0
JUNE	0.0	0.0	0	0
JULY	0.0	0.0	0	0
AUGUST	0.0	0.0	0	0
SEPTEMBER ..	0.0	0.0	0	0
TOTAL	26365.96	536080.62	132262	668520

11115000 MATILIJA RESERVOIR AT MATILIJA HOT SPRINGS, CA

LOCATION.--Lat 34°29'08", long 119°18'25", in NE¼NW¼SE¼ sec.29, T.5 N., R.23 W., Ventura County, on left end of dam on Ventura River, 0.2 mi (0.3 km) east of Matilija Hot Springs, and 1.8 mi (2.9 km) southwest of Wheeler Springs.

DRAINAGE AREA.--54.4 mi² (140.9 km²).

PERIOD OF RECORD.--March 1948 to September 1965, October 1970 to current year. Prior to October 1953, published as "at Matilija."

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (Ventura County Department of Public Works bench mark). Prior to Nov. 12, 1970, at site near right end of dam at same datum.

REMARKS.--Reservoir is formed by concrete-arch dam. Dam was completed in 1948. Storage began Mar. 14, 1948. Capacity table is dated October 1970 (furnished by Ventura County Flood Control District). Lowest sluice gate silted, elevation, 1,000 ft (304.8 m). Usable capacity, 2,380 acre-ft (2.93 hm³) between elevations 1,045 ft (318.5 m), lowest usable outlet and 1,095 ft (333.8 m), crest of spillway. Dead storage below lowest usable outlet, 93 acre-ft (115,000 m³). Capacity below spillway, 2,473 acre-ft (3.05 hm³). Water is released from reservoir to natural stream for recharge of ground-water basin in Ventura River Valley and at times releases up to 500 ft³/s (14.2 m³/s), diverted since May 1959 at Robles diversion dam to Lake Casitas on Coyote Creek.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 7,399 acre-ft (9.12 hm³) Apr. 3, 1958, elevation, 1,128.10 ft (343.845 m); minimum, 5.90 acre-ft (7,270 m³) Oct. 31, 1970, elevation, 1,038.31 ft (316.477 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum contents from October 1965 to September 1970, 3,128 acre-ft (3.86 hm³) Jan. 25, 1969, elevation, 1,103.6 ft (336.377 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,853 acre-ft (2.28 hm³) Feb. 10, elevation, 1,085.97 ft (331.004 m); minimum, 521 acre-ft (642,000 m³) Dec. 3, elevation, 1,059.67 ft (322.987 m).

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	1073.19	1104	--
Oct. 31.....	1073.63	1128	+24
Nov. 30.....	1060.12	538	-590
Dec. 31.....	1060.13	538	0
CAL YR 1975.....	--	--	-232
Jan. 31.....	1060.23	541	+3
Feb. 29.....	1060.79	561	+20
Mar. 31.....	1060.98	568	+7
Apr. 30.....	1060.59	554	-14
May 31.....	1060.17	540	-14
June 30.....	1059.90	530	-10
July 31.....	1059.99	533	+3
Aug. 31.....	1060.05	535	+2
Sept. 30.....	1062.15	611	+76
WTR YR 1976.....	--	--	-493

VENTURA RIVER BASIN

11115500 MATILIJA CREEK AT MATILIJA HOT SPRINGS, CA

LOCATION.--Lat 34°28'58", long 119°18'03", in SW¼NW¼SW¼ sec.28, T.5 N., R.23 W., Ventura County, on right bank 0.2 mi (0.3 km) east of Matilija Hot Springs, 0.2 mi (0.3 km) upstream from North Fork, and 0.4 mi (0.6 km) downstream from Matilija Dam.

DRAINAGE AREA.--54.6 mi² (141.4 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1927 to current year. Combined monthly records for creek and diversion, May 1951 to September 1969. Prior to October 1953, published as "at Matilija."

GAGE.--Water-stage recorder. Concrete control since September 1969. Altitude of gage is 900 ft (274 m), from topographic map. Prior to Feb. 11, 1939, at site 0.6 mi (1.0 km) upstream at different datum.

REMARKS.--Records good. Flow regulated by Matilija Reservoir March 1948 to March 1964, capacity, 7,020 acre-ft (8.66 hm³) and partly regulated since March 1964, capacity, 2,470 acre-ft (3.05 hm³). Water diverted at dam by Matilija conduit to Ventura River basin and Ojai Valley for irrigation from May 1951 to January 1969.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,000 ft³/s (566 m³/s) Jan. 25, 1969, gage height, 16.5 ft (5.03 m), from rating curve extended above 4,200 ft³/s (119 m³/s) on basis of computation of maximum flow over dam; minimum daily, 0.10 ft³/s (0.003 m³/s) for several days in some years of regulated flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 529 ft³/s (15.0 m³/s) Feb. 10, gage height, 4.32 ft (1.317 m); minimum daily, 0.89 ft³/s (0.025 m³/s) Aug. 14.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	2.2	3.5	3.8	4.1	18	11	7.4	4.8	2.2	1.9	1.2
2	2.8	2.2	3.7	3.8	4.1	18	11	7.1	4.5	2.2	1.8	1.2
3	2.6	2.2	9.8	3.8	4.1	18	11	6.7	4.3	2.2	1.7	1.2
4	2.6	2.2	3.4	3.8	4.1	18	11	6.4	4.3	2.2	1.6	1.2
5	2.6	2.2	3.5	4.0	4.7	18	8.9	6.4	4.5	2.2	1.6	1.4
6	2.6	2.2	3.5	4.3	5.0	18	11	6.7	4.5	2.2	1.4	1.4
7	2.6	2.2	3.4	4.3	9.1	18	11	6.7	4.6	2.2	1.2	1.4
8	2.8	2.2	3.5	4.6	9.8	18	11	6.7	4.5	2.2	1.2	1.4
9	2.8	2.2	3.6	4.6	232	18	11	8.2	4.6	2.2	1.2	1.5
10	2.6	2.2	3.6	4.6	474	18	11	14	4.4	2.2	1.2	2.4
11	2.8	2.2	3.6	4.6	483	18	11	14	4.4	2.2	1.2	2.1
12	2.8	112	3.6	4.6	175	18	11	13	4.3	2.1	1.3	1.7
13	2.6	163	3.6	4.6	56	18	11	11	4.3	1.8	1.2	1.6
14	2.4	32	3.8	4.6	48	18	11	10	4.3	1.8	.89	1.9
15	2.4	2.8	3.8	4.6	36	15	11	10	2.9	2.0	1.1	2.1
16	2.2	2.8	3.8	4.6	31	15	11	11	3.6	2.2	1.4	2.7
17	2.2	3.0	3.8	4.6	31	16	10	9.9	3.7	2.2	1.7	2.8
18	2.2	3.2	3.8	4.6	29	16	11	10	3.7	2.2	1.5	3.1
19	2.2	3.2	3.8	3.8	27	16	11	10	3.7	2.2	1.5	3.1
20	2.2	3.2	3.8	3.4	26	16	11	11	3.6	2.2	1.5	3.0
21	2.2	3.2	3.8	3.4	26	15	9.4	8.6	3.6	2.2	1.5	3.0
22	2.2	3.2	3.8	3.8	24	14	8.2	5.4	3.5	2.2	1.5	3.1
23	2.2	3.2	3.8	4.1	15	14	8.6	5.4	3.4	1.8	1.5	3.1
24	2.2	3.2	3.8	4.2	17	14	9.4	5.4	3.0	1.6	1.5	2.9
25	2.2	3.6	3.8	4.2	18	16	9.4	5.1	3.0	1.6	1.4	3.0
26	2.2	3.0	3.8	4.2	18	15	9.4	4.8	2.9	1.9	1.3	3.0
27	2.2	3.0	3.8	4.1	17	13	8.2	4.8	2.9	1.9	1.2	3.6
28	2.2	3.0	3.8	4.1	17	9.8	7.4	4.8	2.4	1.9	1.2	5.8
29	2.2	3.2	3.8	4.1	18	9.0	7.4	4.8	1.9	1.9	1.2	187
30	2.2	3.4	3.8	4.1	---	11	7.4	4.8	2.2	1.9	1.2	107
31	2.2	---	3.8	4.1	---	11	---	4.8	---	1.9	1.2	---
TOTAL	75.1	381.4	120.7	130.0	1863.0	487.8	301.7	244.9	112.3	63.7	42.79	359.9
MEAN	2.42	12.7	3.89	4.19	64.2	15.7	10.1	7.90	3.74	2.05	1.38	12.0
MAX	2.9	163	9.8	4.6	483	18	11	14	4.8	2.2	1.9	187
MIN	2.2	2.2	3.4	3.4	4.1	9.0	7.4	4.8	1.9	1.6	.89	1.2
AC-FT	149	757	239	258	3700	968	598	486	223	126	85	714
CAL YR 1975	TOTAL	8980.50	MEAN 24.6	MAX 1110	MIN 2.2	AC-FT 17810						
WTR YR 1976	TOTAL	4183.29	MEAN 11.4	MAX 483	MIN .89	AC-FT 8300						

11116000 NORTH FORK MATILIJA CREEK AT MATILIJA HOT SPRINGS, CA

LOCATION.--Lat 34°29'33", long 119°18'20", in NE¼NW¼NE¼ sec.29, T.5 N., R.23 W., Ventura County, on right bank at bridge on State Highway 33 (revised), 0.7 mi (1.1 km) north of Matilija Hot Springs, and 0.8 mi (1.3 km) upstream from mouth.

DRAINAGE AREA.--15.6 mi² (40.4 km²).

PERIOD OF RECORD.--October 1928 to September 1932, October 1933 to current year. Prior to October 1953, published as "at Matilija."

GAGE.--Water-stage recorder. Concrete control since September 1966. Datum of gage is 1,141.62 ft (347.966 m), above mean sea level (levels by Ventura County Flood Control District). Prior to Nov. 12, 1948, at site 0.3 mi (0.5 km) downstream at different datum.

REMARKS.--No regulation or diversion above station.

COOPERATION.--Records were furnished by Ventura County Flood Control District and reviewed by Geological Survey.

AVERAGE DISCHARGE.--47 years, 10.1 ft³/s (0.286 m³/s), 7,320 acre-ft/yr (9.03 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,440 ft³/s (267 m³/s) Feb. 24, 1969, gage height, 11.0 ft (3.35 m), from floodmark, from rating curve extended above 1,700 ft³/s (48.1 m³/s) on basis of slope-area measurement at gage height 10.0 ft (3.05 m); minimum daily, 0.10 ft³/s (0.003 m³/s) for several days in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 375 ft³/s (10.6 m³/s) Sept. 29, gage height, 3.55 ft (1.082 m), no peak above base of 400 ft³/s (11.3 m³/s); minimum daily, 0.42 ft³/s (0.012 m³/s) Aug. 26 to Sept. 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.1	1.3	1.4	1.4	3.5	2.5	1.6	1.3	.68	.61	.42
2	1.1	1.1	1.3	1.4	1.3	4.7	2.5	1.6	1.2	.68	.61	.42
3	.98	1.1	1.3	1.4	1.3	4.4	2.5	1.6	1.2	.68	.61	.48
4	.98	1.1	1.3	1.4	1.4	4.1	2.7	1.8	1.2	.68	.61	.48
5	.98	1.1	1.3	1.4	3.5	4.1	2.7	1.8	1.2	.68	.61	.48
6	.98	1.1	1.3	1.4	6.0	3.8	2.5	1.8	1.2	.61	.61	.48
7	1.1	1.1	1.3	1.4	5.2	3.8	2.5	1.8	1.2	.54	.54	.48
8	1.1	1.1	1.3	1.4	7.5	3.8	2.7	1.8	1.1	.54	.54	.48
9	1.1	1.1	1.2	1.4	94	3.5	2.5	1.6	1.2	.54	.54	.48
10	1.2	1.2	1.2	1.4	52	3.5	2.5	1.6	1.2	.61	.48	4.2
11	1.4	1.2	1.3	1.4	13	3.5	2.2	1.5	1.2	.61	.48	5.2
12	1.4	1.2	1.4	1.4	8.2	3.2	2.5	1.5	1.2	.61	.48	1.8
13	1.3	1.2	1.5	1.4	6.0	3.2	2.7	1.4	1.1	.61	.54	1.5
14	1.2	1.2	1.5	1.4	5.6	3.0	2.5	1.4	1.1	.61	.61	1.3
15	1.2	1.2	1.5	1.4	5.2	2.7	2.3	1.5	.98	.68	.68	1.3
16	1.2	1.2	1.5	1.4	4.8	2.7	2.0	1.5	.98	.68	.68	1.3
17	1.1	1.2	1.4	1.4	4.1	2.7	2.0	1.4	.98	.68	.68	1.3
18	1.2	1.2	1.4	1.4	4.1	2.7	2.0	1.4	.90	.68	.68	1.3
19	1.2	1.2	1.4	1.4	3.8	2.7	1.8	1.4	.90	.68	.68	1.3
20	1.2	1.2	1.4	1.4	3.8	2.5	1.8	1.4	.90	.68	.61	1.3
21	1.2	1.2	1.4	1.4	3.5	2.5	1.8	1.4	.90	.68	.54	1.2
22	1.2	1.2	1.4	1.4	3.2	2.5	1.8	1.4	.82	.68	.54	1.2
23	1.2	1.1	1.4	1.4	3.2	2.5	1.8	1.4	.82	.68	.54	1.2
24	1.2	1.1	1.4	1.4	3.2	2.5	1.8	1.4	.75	.61	.48	1.2
25	1.2	1.1	1.4	1.4	3.0	2.5	1.8	1.4	.75	.61	.48	1.2
26	1.2	1.1	1.4	1.4	2.7	2.5	1.8	1.3	.75	.61	.42	1.2
27	1.2	1.2	1.4	1.4	2.7	2.5	1.8	1.3	.68	.54	.42	1.2
28	1.2	1.3	1.4	1.4	2.5	2.5	1.8	1.3	.68	.54	.42	1.4
29	1.1	1.3	1.4	1.4	2.7	2.5	1.8	1.3	.68	.54	.42	87
30	1.1	1.3	1.4	1.4	---	2.5	1.8	1.3	.68	.61	.42	6.2
31	1.1	---	1.4	1.4	---	2.5	---	1.3	---	.61	.42	---
TOTAL	35.92	35.0	42.5	43.4	258.9	95.6	65.4	46.2	29.75	19.47	16.98	129.00
MEAN	1.16	1.17	1.37	1.40	8.93	3.08	2.18	1.49	.99	.63	.55	4.30
MAX	1.4	1.3	1.5	1.4	94	4.7	2.7	1.8	1.3	.68	.68	87
MIN	.98	1.1	1.2	1.4	1.3	2.5	1.8	1.3	.68	.54	.42	.42
AC-FT	71	69	84	86	514	190	130	92	59	39	34	256
CAL YR 1975 TOTAL	2172.32			MEAN 5.95	MAX 277	MIN .90	AC-FT 4310					
WTR YR 1976 TOTAL	818.12			MEAN 2.24	MAX 94	MIN .42	AC-FT 1620					

11116550 VENTURA RIVER NEAR MEINERS OAKS, CA

LOCATION.--Lat 34°27'54", long 119°17'20", in SE¼SW¼SE¼ sec.33, T.5 N., R.23 W., Ventura County, on right bank 50 ft (15 m) downstream from Robles diversion dam, and 1.2 mi (1.9 km) northwest of Meiners Oaks.

DRAINAGE AREA.--76.4 mi² (197.9 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 750.00 ft (228.600 m) above mean sea level (Bureau of Reclamation bench mark). Prior to Oct. 30, 1969, at site 500 ft (152 m) downstream at datum 5.40 ft (1.646 m) lower.

REMARKS.--Records good except those above 40 ft³/s (1.13 m³/s), which are poor. Flow regulated by Matilija Reservoir, capacity, 3,800 acre-ft (4.69 hm³). Flow up to 500 ft³/s (14.2 m³/s) diverted since May 1959 at Robles diversion dam to Lake Casitas on Coyote Creek. Flow reported herein is that released through gates in Robles diversion dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,000 ft³/s (793 m³/s), estimated, Jan. 25, 1969, (gage height, unknown); no flow for several months in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 312 ft³/s (8.84 m³/s), Sept. 29, gage height, 3.81 ft (1.161 m); no flow for several months.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	.18	0	20	5.0	1.1				0
2		0	0	.17	.03	22	4.8	1.1				0
3		0	2.1	.07	0	21	4.9	1.2				0
4		0	.10	.03	.10	18	5.9	1.0				0
5		0	.05	.02	3.4	18	4.5	.75				0
6		0	.01	.08	7.3	17	5.8	1.0				0
7		0	0	.25	9.8	16	5.9	1.3				0
8		0	0	.17	13	16	6.1	1.3				0
9		0	0	.02	14	16	6.0	1.5				0
10		0	0	0	24	16	6.3	1.4				0
11		0	0	.12	37	15	6.1	.84				0
12		.31	0	.04	35	15	6.5	.76				0
13		.30	0	0	33	14	7.5	.33				0
14		11	0	0	31	13	6.7	.32				0
15		.84	0	0	32	11	6.4	.11				0
16		1.8	0	0	31	7.4	6.0	.15				.07
17		.38	0	.10	34	9.7	5.4	0				.09
18		.04	0	.14	32	9.1	4.3	0				.26
19		0	0	.03	27	8.8	4.0	0				.48
20		0	0	0	26	8.6	3.8	0				.43
21		0	0	0	25	8.0	3.2	0				.48
22		0	0	0	24	8.0	2.9	.02				.48
23		0	0	0	14	8.0	2.7	0				.52
24		0	0	0	15	9.0	3.2	.03				.43
25		0	0	.07	16	10	2.7	.02				.33
26		0	.10	.12	16	8.9	2.4	.03				.66
27		0	.10	.06	15	6.4	1.7	0				.89
28		0	.10	.01	15	5.6	1.7	0				1.3
29		0	.10	0	15	4.0	1.6	.06				37
30		0	0	0	---	5.7	1.3	.53				14
31		---	.05	0	---	5.8	---	.36	---			---
TOTAL	0	14.67	2.71	1.68	544.63	371.0	135.3	15.21	0	0	0	57.42
MEAN	0	.49	.087	.054	18.8	12.0	4.51	.49	0	0	0	1.91
MAX	0	11	2.1	.25	37	22	7.5	1.5	0	0	0	37
MIN	0	0	0	0	0	4.0	1.3	0	0	0	0	0
AC-FT	0	29	5.4	3.3	1080	736	268	30	0	0	0	114
CAL YR 1975	TOTAL	2987.59	MEAN 8.19	MAX 790	MIN 0	AC-FT 5930						
WTR YR 1976	TOTAL	1142.62	MEAN 3.12	MAX 37	MIN 0	AC-FT 2270						

VENTURA RIVER BASIN

11117500 SAN ANTONIO CREEK AT CASITAS SPRINGS, CA

LOCATION (REVISED)--Lat 34°22'49", long 119°18'13", in Santa Ana Grant, Ventura County, on left bank downstream side of bridge on State Highway 33, 0.2 mi (0.3 km) upstream from mouth, and 0.9 mi (1.4 km) north of Casitas Springs.

DRAINAGE AREA.--51.2 mi² (132.6 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 306.72 ft (93.488 m) above mean sea level (levels by Ventura County Flood Control District). Prior to Jan. 30, 1962, at datum 0.83 ft (0.253 m) higher.

REMARKS.--No regulation above station; pumping from wells 100 ft (30 m) upstream for irrigation during summer months.

COOPERATION.--Records were furnished by Ventura County Flood Control District; one discharge measurement was made and records were reviewed by Geological Survey.

AVERAGE DISCHARGE.--27 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, 16,200 ft³/s (459 m³/s) Jan. 25, 1969, gage height, 14.30 ft (4.359 m), from inside gage, from rating curve extended above 2,000 ft³/s (56.6 m³/s) on basis of slope-area measurement of maximum flow; no flow for several months 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)	
Feb. 9	0700	300	8.50	7.12	2.170
Sept. 29	0600	*1040	29.5	8.30	2.530

Minimum daily discharge, no flow July 14, 15, July 17 to Sept. 9, Sept. 13-19.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	1.0	1.2	1.2	.89	7.2	.76	1.3	.23	.12		0
2	1.0	1.0	1.2	1.2	.89	11	.76	1.3	.23	.12		0
3	1.0	1.0	1.2	1.3	.89	10	.76	1.3	.29	.09		0
4	.89	1.0	1.2	1.3	1.0	4.2	1.5	1.5	.23	.09		0
5	.89	1.0	1.2	1.2	1.7	2.8	1.5	1.7	.23	.06		0
6	.89	1.0	1.2	1.2	12	2.6	1.2	1.7	.23	.06		0
7	.89	1.0	1.2	1.0	10	2.3	1.0	1.5	.23	.04		0
8	.89	1.0	1.0	1.0	13	2.3	1.7	1.2	.23	.01		0
9	1.0	1.0	1.0	1.0	72	2.3	1.3	.89	.29	.01		0
10	1.0	1.0	1.0	1.0	36	2.8	1.0	.89	.36	.02		1.8
11	1.2	.89	1.2	1.0	13	2.3	1.2	.89	.29	.01		2.1
12	1.2	.89	1.2	1.0	6.5	2.1	1.3	.64	.23	.01		.03
13	1.3	.89	1.3	1.0	5.3	1.9	3.6	.64	.17	.01		0
14	1.2	.89	1.3	1.0	4.2	1.7	3.0	.64	.12	0		0
15	1.0	.76	1.3	1.0	3.6	1.7	1.9	.53	.12	0		0
16	1.0	.89	1.3	1.0	3.0	1.5	1.5	.53	.12	.01		0
17	1.0	1.0	1.3	1.0	2.8	1.5	1.3	.53	.17	0		0
18	1.2	1.0	1.3	1.0	2.6	1.5	1.3	.53	.17	0		0
19	1.2	1.0	1.3	1.0	2.3	1.5	1.2	.53	.17	0		0
20	1.2	1.2	1.3	1.0	1.9	1.3	1.2	.53	.17	0		.01
21	1.2	1.2	1.3	1.0	1.7	1.3	1.2	.53	.17	0		.01
22	1.2	1.2	1.3	1.0	1.5	1.3	1.3	.53	.17	0		.01
23	1.2	1.0	1.2	1.0	1.5	1.2	1.5	.53	.17	0		.01
24	1.0	1.0	1.2	1.0	1.5	1.2	1.5	.53	.12	0		.01
25	1.0	.89	1.0	1.0	1.3	1.2	1.5	.53	.12	0		.01
26	1.0	.89	1.2	1.0	1.3	1.2	1.3	.53	.12	0		.01
27	1.0	1.0	1.2	.89	1.2	1.2	1.5	.53	.12	0		.01
28	1.2	1.0	1.0	.89	1.2	1.0	1.5	.53	.12	0		.11
29	1.0	1.0	1.0	.89	1.2	1.0	1.7	.44	.12	0		135
30	1.0	1.2	1.0	.89	---	1.0	1.5	.44	.12	0		2.5
31	1.2	---	1.2	.89	---	.89	---	.23	---	0		---
TOTAL	32.95	29.79	36.8	31.85	205.97	76.99	43.48	24.62	5.63	.66	0	141.62
MEAN	1.06	.99	1.19	1.03	7.10	2.48	1.45	.79	.19	.021	0	4.72
MAX	1.3	1.2	1.3	1.3	72	11	3.6	1.7	.36	.12	0	135
MIN	.89	.76	1.0	.89	.89	.89	.76	.23	.12	0	0	0
AC-FT	65	59	73	63	409	153	86	49	11	1.3	0	281
CAL YR 1975 TOTAL	2158.13		MEAN 5.91	MAX 417	MIN .76	AC-FT 4280						
WTR YR 1976 TOTAL	630.36		MEAN 1.72	MAX 135	MIN 0	AC-FT 1250						

VENTURA RIVER BASIN

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11117600 COYOTE CREEK NEAR OAK VIEW, CA

LOCATION.--Lat 34°25'02", long 119°22'01", in Santa Ana Grant, Ventura County, on right bank 1,000 ft (305 m) downstream from Los Padres National Forest boundary, 0.6 mi (1.0 km) upstream from Poplin Creek, and 4.2 mi (6.8 km) northwest of Oak View.

DRAINAGE AREA.--13.2 mi² (34.2 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 560.47 ft (170.831 m) above mean sea level (Bureau of Reclamation bench mark).

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

AVERAGE DISCHARGE.--18 years, 6.36 ft³/s (0.180 m³/s), 4,610 acre-ft/yr (5.68 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,000 ft³/s (227 m³/s) Jan. 25, 1969, gage height, 12.00 ft (3.658 m), from floodmarks, from rating curve extended above 2,100 ft³/s (59.5 m³/s) on basis of slope-area measurements at gage heights 9.10 ft (2.774 m) and 12.00 ft (3.658 m); no flow at times in some 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)
Feb. 9	2400	*690 19.5	7.11 2.167
Sept. 29	0430	304 8.61	6.23 1.899

Minimum daily discharge, 0.04 ft³/s (0.001 m³/s) Aug. 26, 27, 30, 31.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.32	.23	.33	.50	.33	9.7	1.1	.59	.40	.16	.13	.05
2	.29	.23	.35	.50	.33	11	1.1	.58	.41	.18	.10	.05
3	.27	.22	.36	.50	.41	12	1.1	.60	.44	.19	.13	.05
4	.22	.23	.38	.54	.42	5.0	1.1	.60	.43	.18	.10	.05
5	.22	.25	.39	.53	.87	3.8	1.1	.58	.41	.16	.10	.05
6	.25	.28	.39	.50	.63	3.0	1.1	.64	.40	.13	.10	.06
7	.27	.28	.38	.44	9.9	2.8	1.1	.64	.40	.11	.10	.06
8	.26	.26	.38	.44	11	2.7	1.1	.61	.40	.09	.10	.05
9	.25	.25	.39	.45	209	2.5	1.1	.59	.41	.09	.10	.05
10	.25	.26	.34	.44	127	2.7	1.1	.58	.51	.11	.10	.39
11	.28	.27	.39	.44	15	2.4	.98	.55	.38	.13	.10	.57
12	.21	.25	.45	.44	7.6	2.1	1.0	.52	.36	.14	.10	.18
13	.18	.25	.47	.44	5.3	2.0	1.1	.50	.34	.14	.08	.16
14	.23	.24	.49	.44	3.8	1.9	1.0	.48	.33	.14	.10	.16
15	.22	.29	.50	.44	3.0	1.8	1.1	.47	.31	.16	.13	.19
16	.21	.31	.50	.44	2.5	1.7	1.0	.47	.31	.20	.12	.19
17	.22	.32	.50	.46	2.2	1.6	1.0	.44	.33	.17	.08	.22
18	.21	.34	.50	.46	2.0	1.6	1.0	.41	.31	.15	.08	.22
19	.23	.32	.51	.47	1.9	1.5	.96	.41	.30	.13	.08	.26
20	.23	.33	.53	.44	1.6	1.4	.93	.46	.30	.11	.10	.26
21	.24	.33	.55	.39	1.6	1.4	.90	.46	.29	.09	.11	.30
22	.25	.32	.56	.39	1.6	1.4	.91	.46	.27	.09	.09	.30
23	.20	.32	.57	.39	1.5	1.4	.77	.45	.24	.10	.08	.30
24	.22	.32	.50	.39	1.4	1.4	.76	.47	.22	.07	.06	.30
25	.23	.28	.50	.36	1.4	1.4	.73	.46	.19	.06	.05	.30
26	.25	.28	.50	.34	1.3	1.3	.68	.43	.20	.06	.04	.34
27	.24	.29	.50	.34	1.3	1.3	.70	.44	.18	.06	.04	.30
28	.27	.30	.50	.36	1.2	1.3	.70	.49	.18	.06	.06	.44
29	.27	.30	.50	.36	1.2	1.2	.68	.48	.16	.08	.05	84
30	.28	.30	.54	.37	---	1.2	.65	.46	.16	.10	.04	3.5
31	.24	---	.51	.39	---	1.1	---	.42	---	.10	.04	---
TOTAL	7.51	8.45	14.26	13.39	417.29	87.6	28.55	15.74	9.57	3.74	2.69	93.35
MEAN	.24	.28	.46	.43	14.4	2.83	.95	.51	.32	.12	.087	3.11
MAX	.32	.34	.57	.54	209	12	1.1	.64	.51	.20	.13	84
MIN	.18	.22	.33	.34	.33	1.1	.65	.41	.16	.06	.04	.05
AC-FT	15	17	28	27	828	174	57	31	19	7.4	5.3	185
CAL YR 1975 TOTAL	1479.11			MEAN 4.05	MAX 285	MIN .18	AC-FT 2930					
WTR YR 1976 TOTAL	702.14			MEAN 1.92	MAX 209	MIN .04	AC-FT 1390					

VENTURA RIVER BASIN

11117800 SANTA ANA CREEK NEAR OAK VIEW, CA

LOCATION.--Lat 34°25'25", long 119°20'25", in Santa Ana Grant, Ventura County, on upstream end of right abutment of bridge on Santa Ana Road (revised), 400 ft (122 m) upstream from unnamed tributary, and 3.0 mi (4.8 km) northwest of Oak View.

DRAINAGE AREA.--9.11 mi² (23.6 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 612.43 ft (186.669 m) above mean sea level (Bureau of Reclamation bench mark). Prior to Aug. 17, 1970, on downstream end of right abutment at same datum.

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

COOPERATION.--One discharge measurement was furnished by Casitas Municipal Water District.

AVERAGE DISCHARGE.--18 years, 5.19 ft³/s (0.147 m³/s), 3,760 acre-ft/yr (4.64 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,730 ft³/s (134 m³/s) Jan. 25, 1969, gage height, 10.70 ft (3.261 m); no flow at times in each year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 3,780 ft³/s (107 m³/s) Mar. 2, 1938, by slope-area measurement at site 2.0 mi (3.2 km) downstream.

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

Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)
Feb. 9	2300	445	12.6	5.30	1.615
Sept. 29	0330	*767	21.7	5.86	1.786

Minimum daily discharge, no flow many months.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	1.7	.11	.08				0
2					0	1.8	.08	.07				0
3					0	3.0	.07	.07				0
4					0	1.5	.08	.07				0
5					0	1.1	.08	.07				0
6					0	.94	.13	.07				0
7					1.2	.86	.12	.06				0
8					3.5	.82	.16	.05				0
9					88	.82	.14	.05				0
10					82	.90	.09	.05				0
11					6.9	.76	.07	.04				0
12					4.4	.67	.08	.04				0
13					2.3	.67	.22	.03				0
14					1.7	.70	.36	.04				0
15					1.5	.64	.17	.04				0
16					1.3	.59	.12	.04				0
17					1.1	.56	.09	.04				0
18					1.1	.55	.09	.03				0
19					1.2	.55	.08	.03				0
20					1.1	.49	.07	.03				0
21					.99	.49	.08	.03				0
22					.96	.48	.08	.03				0
23					1.1	.43	.09	.03				0
24					1.0	.23	.09	.02				0
25					1.0	.22	.10	.02				0
26					.94	.18	.09	.01				0
27					.60	.16	.09	.01				0
28					.48	.16	.10	.02				.02
29					.45	.15	.10	.03			163	0
30					---	.13	.09	.02			4.8	0
31		---			---	.12	---	0	---		---	---
TOTAL	0	0	0	0	204.82	22.37	3.32	1.22	0	0	0	167.82
MEAN	0	0	0	0	7.06	.72	.11	.039	0	0	0	5.59
MAX	0	0	0	0	88	3.0	.36	.08	0	0	0	163
MIN	0	0	0	0	0	.12	.07	0	0	0	0	0
AC-FT	0	0	0	0	406	44	6.6	2.4	0	0	0	333
CAL YR 1975	TOTAL	1341.12	MEAN 3.67	MAX 273	MIN 0	AC-FT 2660						
WTR YR 1976	TOTAL	399.55	MEAN 1.09	MAX 163	MIN 0	AC-FT 793						

11118000 COYOTE CREEK NEAR VENTURA, CA

LOCATION.--Lat 34°21'26", long 119°18'46", near southeast corner of Santa Ana Grant, Ventura County, on right bank 200 ft (61 m) downstream from bridge on Santa Ana Road, 0.3 mi (0.5 km) upstream from mouth, and 5.5 mi (8.8 km) northwest of Ventura.

DRAINAGE AREA.--41.2 mi² (106.7 km²).

PERIOD OF RECORD.--October 1927 to September 1932, October 1933 to September 1958, October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 224.95 ft (68.565 m) above mean sea level (Ventura County Flood Control bench mark). See WSP 1735 for history of changes prior to Oct. 1, 1969.

REMARKS.--Records good. Flow mostly regulated by Casitas Reservoir since October 1959, capacity, 267,000 acre-ft (329 hm³).

AVERAGE DISCHARGE.--30 years (water years 1928-32, 1934-58), 13.2 ft³/s (0.374 m³/s), 9,560 acre-ft/yr (11.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,500 ft³/s (326 m³/s) Mar. 2, 1938, on basis of slope-area measurement of maximum flow; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 43 ft³/s (1.22 m³/s) Sept. 29, gage height, 7.36 ft (2.243 m); no flow several months.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	.04	.07	.36	.13	.07	.03			0
2			0	.04	.07	.28	.10	.07	.03			0
3			0	.07	.09	.16	.12	.09	.03			0
4			0	.08	.10	.12	.16	.09	.02			0
5			0	.08	.17	.10	.16	.10	.01			0
6			0	.08	.25	.10	.15	.10	.01			0
7			0	.08	.81	.12	.13	.09	.01			0
8			0	.09	.29	.12	.12	.09	0			0
9			0	.10	2.3	.13	.11	.07	.01			0
10			0	.09	.52	.16	.11	.07	.03			0
11			0	.09	.32	.12	.12	.07	.03			0
12			0	.10	.25	.09	.16	.06	.02			0
13			0	.07	.19	.11	.14	.05	.01			0
14			0	.07	.16	.14	.12	.06	.01			0
15			0	.06	.16	.15	.12	.05	0			0
16			0	.05	.16	.13	.12	.06	0			0
17			0	.04	.16	.12	.12	.06	0			0
18			0	.04	.14	.13	.13	.05	0			0
19			.03	.02	.14	.11	.11	.04	0			0
20			.03	0	.14	.11	.10	.04	0			0
21			.04	.01	.14	.12	.10	.04	0			0
22			.04	.02	.14	.12	.10	.05	0			0
23			.04	.04	.14	.14	.10	.05	0			0
24			.05	.04	.14	.15	.11	.05	0			0
25			.05	.04	.15	.14	.09	.05	0			0
26			.09	.04	.14	.11	.09	.04	0			0
27			.02	.05	.14	.11	.08	.05	0			0
28			.02	.06	.14	.12	.07	.06	0			.30
29			.01	.05	.14	.13	.09	.06	0			8.7
30			.03	.06	---	.13	.07	.05	0			.15
31		---	.04	.10	---	.14	---	.04	---			---
TOTAL	0	0	.49	1.80	7.76	4.27	3.43	1.92	.25	0	0	9.15
MEAN	0	0	.016	.058	.27	.14	.11	.062	.008	0	0	.31
MAX	0	0	.09	.10	2.3	.36	.16	.10	.03	0	0	8.7
MIN	0	0	0	0	.07	.09	.07	.04	0	0	0	0
AC-FT	0	0	1.0	3.6	15	8.5	6.8	3.8	.5	0	0	18
CAL YR 1975	TOTAL	132.16	MEAN	.36	MAX	34	MIN	0	AC-FT	262		
WTR YR 1976	TOTAL	29.07	MEAN	.079	MAX	8.7	MIN	0	AC-FT	58		

VENTURA RIVER BASIN

11118500 VENTURA RIVER NEAR VENTURA, CA

LOCATION.--Lat 34°21'08", long 119°18'27", in southeast corner of Santa Ana Grant, Ventura County, on right bank 50 ft (15 m) downstream from bridge on Casitas Pass Road (revised) at Poster Memorial Park, 0.2 mi (0.3 km) downstream from Coyote Creek, and 5 mi (8 km) north of Ventura.

DRAINAGE AREA.--188 mi² (487 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1911 to January 1914, October 1929 to current year; combined records of river and diversion, October 1932 to current year.

GAGE.--Water-stage recorder on river; water-stage recorder and Parshall flume on diversion. Datum of gage is 205.23 ft (62.554 m) above mean sea level (Ventura County Flood Control bench mark). See WSP 1315-B for history of changes prior to Nov. 2, 1949. Nov. 2, 1949, to June 12, 1969, at site 450 ft (137 m) downstream at datum 4.00 ft (1.219 m) lower.

REMARKS.--Records fair. Flow partly regulated since March 1948 by Matilija Reservoir, capacity, 3,800 acre-ft (4.69 hm³) and since October 1959 by Casitas Reservoir, capacity, 267,000 acre-ft (329 hm³). Water diverted to Casitas Reservoir on Coyote Creek since January 1959. Diversion by city of Ventura for municipal supply began prior to 1911. AVERAGE DISCHARGE (River only) represents flow to ocean regardless of upstream development. For records of combined discharge of river and Ventura City diversion, see following page.

AVERAGE DISCHARGE.--River only: 49 years (water years 1912-13, 1930-76), 53.9 ft³/s (1.526 m³/s), 39,050 acre-ft/yr (48.1 hm³/yr).
Combined river and diversion: 44 years, 62.9 ft³/s (1.781 m³/s), 45,570 acre-ft/yr (56.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--River only: Maximum discharge, 58,000 ft³/s (1,640 m³/s) Jan. 25, 1969, gage height, 24.3 ft (7.41 m), present datum, from floodmarks, from rating curve extended above 19,600 ft³/s (555 m³/s) on basis of contracted-opening measurement of maximum flow; no flow at times in many years. Combined river and diversion: Maximum discharge, 58,000 ft³/s (1,640 m³/s) Jan. 25, 1969; minimum daily, 0.10 ft³/s (0.003 m³/s) Sept. 3, 4, 13, 1961.

EXTREMES FOR CURRENT YEAR.--River only: Maximum discharge, 1,990 ft³/s (56.4 m³/s) Sept. 29, gage height, 8.58 ft (2.615 m); no flow for several months.
Combined river and diversion: Maximum discharge, 2,000 ft³/s (56.6 m³/s) Sept. 29; minimum daily, 4.1 ft³/s (0.12 m³/s) Feb. 16.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.59	.12			0	1.2	5.9	2.3	.94	.04		0
2	.50	.10			0	6.7	2.2	2.1	.41	.03		0
3	.43	.08			0	8.9	3.3	1.0	.30	.01		0
4	1.1	.06			0	2.1	3.5	1.2	.30	0		0
5	.95	.05			0	2.0	3.6	1.4	1.1	0		0
6	.65	.04			0	2.1	2.1	1.3	.94	0		0
7	.43	.02			0	2.2	1.3	.72	.55	0		0
8	.38	.01			.17	1.1	.77	1.1	1.1	0		0
9	.34	0			41	.66	1.7	.97	.72	0		0
10	.37	0			29	.57	2.5	.52	.19	0		0
11	1.5	0			4.8	1.0	2.8	.31	.16	0		0
12	2.0	0			.90	1.3	3.7	.29	.32	0		0
13	1.1	0			.10	.71	3.4	.24	.69	0		0
14	.42	0			.19	1.2	3.4	.95	.32	0		0
15	.32	0			.53	.61	2.7	3.6	.16	0		0
16	.31	0			.78	.67	2.6	4.8	.13	0		0
17	.28	0			.56	1.2	2.9	3.1	.19	0		0
18	.38	0			.22	1.2	4.6	1.8	.34	0		0
19	.66	0			.24	1.6	4.0	.42	.19	0		0
20	.32	0			.27	1.3	3.6	.73	.62	0		0
21	.25	0			.62	2.1	3.3	1.3	.23	0		0
22	.22	0			.54	1.5	3.0	1.6	.21	0		0
23	.16	0			.39	1.3	2.7	2.9	.17	0		0
24	.13	0			.22	1.5	2.5	2.0	.13	0		0
25	.43	0			.16	2.3	2.3	.96	.10	0		0
26	.42	0			.16	1.8	2.1	.37	.08	0		0
27	.21	0			.17	2.9	1.9	.35	.10	0		0
28	.14	0			.16	3.5	1.8	.30	.12	0		0
29	.12	0			.13	6.4	1.9	.63	.09	0		387
30	.10	0			---	7.3	2.0	1.7	.06	0		2.4
31	.10	---			---	8.4	---	.94	---	0		---
TOTAL	15.31	.48	0	0	81.31	77.32	84.07	41.90	10.96	.08	0	389.4
MEAN	.49	.016	0	0	2.80	2.49	2.80	1.35	.37	.003	0	13.0
MAX	2.0	.12	0	0	41	8.9	5.9	4.8	1.1	.04	0	387
MIN	.10	0	0	0	0	.57	.77	.24	.06	0	0	0
AC-FT	30	1.0	0	0	161	153	167	83	22	.2	0	772
CAL YR 1975	TOTAL	5456.07	MEAN 14.9	MAX 2140	MIN 0	AC-FT 10820						
WTR YR 1976	TOTAL	700.83	MEAN 1.91	MAX 387	MIN 0	AC-FT 1390						

11118500 VENTURA RIVER NEAR VENTURA, CA--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF VENTURA RIVER AND VENTURA CITY DIVERSION NEAR VENTURA, CA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	9.9	8.3	4.9	6.6	8.7	12	11	14	11	7.5	7.3
2	12	9.9	8.8	7.7	6.5	14	14	9.5	12	9.9	10	7.4
3	11	9.9	8.7	7.7	6.4	18	11	14	12	10	10	6.8
4	9.6	9.8	8.3	7.6	6.4	10	11	11	9.6	9.1	9.9	6.6
5	11	9.8	8.1	7.5	6.4	8.5	14	14	11	9.6	9.8	7.6
6	12	9.5	8.1	7.4	6.6	10	13	13	11	11	9.7	7.4
7	11	9.7	8.1	7.3	7.1	7.9	13	14	12	11	9.6	7.2
8	11	9.7	8.0	7.3	8.5	11	13	10	9.5	11	7.4	7.0
9	11	7.7	8.0	7.3	50	11	7.8	12	11	11	9.5	7.0
10	10	9.7	7.6	7.2	39	11	9.6	14	11	6.8	9.7	6.9
11	7.6	9.7	7.9	7.2	14	8.3	10	13	9.5	8.5	8.8	7.0
12	11	9.6	8.0	7.1	12	10	13	12	7.0	11	9.5	7.1
13	12	9.4	7.9	7.1	11	9.9	15	12	9.3	11	8.3	7.0
14	11	9.5	7.9	7.0	9.7	8.9	13	10	14	11	8.1	7.0
15	11	9.5	7.9	7.0	8.2	12	14	11	11	11	6.4	6.9
16	10	7.9	7.9	6.9	4.1	8.8	14	12	10	10	9.7	6.8
17	10	9.5	7.8	6.9	11	9.3	10	14	8.4	8.0	9.3	6.7
18	10	9.5	7.8	6.8	10	9.6	11	13	11	8.8	8.9	6.5
19	9.7	9.4	7.8	6.7	10	11	15	12	9.9	11	8.7	6.7
20	10	9.4	7.7	6.6	8.8	11	15	12	9.8	11	8.3	6.6
21	10	9.3	7.7	6.2	7.6	7.2	12	11	13	10	8.4	6.5
22	10	9.3	7.7	6.4	9.3	12	14	10	11	10	8.3	6.4
23	10	9.0	7.7	5.8	10	11	9.9	10	13	10	8.3	6.4
24	9.9	9.1	7.6	6.4	9.7	11	9.0	14	12	9.8	8.5	6.3
25	8.8	8.6	5.9	5.1	9.7	9.7	11	13	12	9.0	8.4	5.4
26	9.5	8.4	7.7	6.2	9.7	11	13	12	8.7	10	8.2	5.4
27	10	7.4	7.6	5.8	9.6	9.8	14	12	9.8	10	8.1	5.9
28	9.9	8.3	7.5	5.5	9.6	8.2	11	12	12	10	8.0	5.4
29	9.9	8.4	7.5	6.7	9.5	6.8	12	9.7	11	10	7.6	394
30	9.9	8.3	7.4	6.7	---	7.7	13	11	11	10	7.7	12
31	8.2	---	5.3	6.6	---	8.8	---	9.7	---	8.6	7.7	---
TOTAL	320.0	275.1	240.2	208.6	327.0	312.1	367.3	367.9	326.5	309.1	268.3	593.2
MEAN	10.3	9.17	7.75	6.73	11.3	10.1	12.2	11.9	10.9	9.97	8.65	19.8
MAX	13	9.9	8.8	7.7	50	18	15	14	14	11	10	394
MIN	7.6	7.4	5.3	4.9	4.1	6.8	7.8	9.5	7.0	6.8	6.4	5.4
AC-FT	635	546	476	414	649	619	729	730	648	613	532	1180
CAL YR 1975	TOTAL	8827.5	MEAN 24.2	MAX 2150	MIN 5.3	AC-FT 17510						
WTR YR 1976	TOTAL	3915.3	MEAN 10.7	MAX 394	MIN 4.1	AC-FT 7770						

11118500 VENTURA RIVER NEAR VENTURA, CA--Continued

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

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	.59	8	.01	.12	9				
2	.50	6	.01	.10	9				
3	.43	5	.01	.08	10				
4	1.1	4	.01	.06	10				
5	.95	4	.01	.05	10				
6	.65	4	.01	.04	10				
7	.43	4	0	.02	10				
8	.38	4	0	.01	16				
9	.34	4	0	0	0				
10	.37	4	0	0	0				
11	1.5	4	.02	0	0				
12	2.0	4	.02	0	0				
13	1.1	4	.01	0	0				
14	.42	5	.01	0	0				
15	.32	6	.01	0	0				
16	.31	6	.01	0	0				
17	.28	7	.01	0	0				
18	.38	7	.01	0	0				
19	.66	7	.01	0	0				
20	.32	7	.01	0	0				
21	.25	8	.01	0	0				
22	.22	10	.01	0	0				
23	.16	14	.01	0	0				
24	.13	10	0	0	0				
25	.43	9	.01	0	0				
26	.42	9	.01	0	0				
27	.21	8	0	0	0				
28	.14	8	0	0	0				
29	.12	8	0	0	0				
30	.10	8	0	0	0				
31	.10	8	0	---	---				
TOTAL	15.31	---	.23	.48	---	0	0	0	0

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1				0	0	0	1.2	62	.30
2				0	0	0	6.7	62	2.5
3				0	0	0	8.9	44	1.8
4				0	0	0	2.1	12	.07
5				0	0	0	2.0	8	.04
6				0	0	0	2.1	6	.03
7				0	0	0	2.2	5	.03
8				.17	8	.01	1.1	4	.01
9				41	235	48	.66	4	.01
10				29	73	8.0	.57	5	.01
11				4.8	20	.26	1.0	5	.01
12				.90	15	.04	1.3	5	.02
13				.10	10	0	.71	5	.01
14				.19	8	0	1.2	5	.02
15				.53	6	.01	.61	6	.01
16				.78	4	.01	.67	4	.01
17				.56	4	.01	1.2	4	.01
18				.22	4	0	1.2	4	.01
19				.24	4	0	1.6	4	.02
20				.27	5	0	1.3	3	.01
21				.62	5	.01	2.1	4	.02
22				.54	5	.01	1.5	4	.02
23				.39	5	.01	1.3	5	.02
24				.22	5	0	1.5	8	.03
25				.16	5	0	2.3	10	.06
26				.16	5	0	1.8	12	.06
27				.17	5	0	2.9	10	.08
28				.16	6	0	3.5	8	.08
29				.13	5	0	6.4	6	.10
30				---	---	---	7.3	4	.08
31				---	---	---	8.4	4	.09
TOTAL	0	0	0	81.31	---	56.37	77.32	---	5.57

VENTURA RIVER BASIN

11118500 VENTURA RIVER NEAR VENTURA, CA--Continued

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

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	5.9	4	.06	2.3	15	.09	.94	5	.01
2	2.2	4	.02	2.1	10	.06	.41	4	0
3	3.3	4	.04	1.0	8	.02	.30	4	0
4	3.5	4	.04	1.2	6	.02	.30	4	0
5	3.6	5	.05	1.4	5	.02	1.1	9	.03
6	2.1	5	.03	1.3	4	.01	.94	9	.02
7	1.3	5	.02	.72	4	.01	.55	10	.01
8	.77	5	.01	1.1	4	.01	1.1	12	.04
9	1.7	6	.03	.97	5	.01	.72	12	.02
10	2.5	7	.05	.52	6	.01	.19	14	.01
11	2.8	7	.05	.31	7	.01	.16	15	.01
12	3.7	6	.06	.29	7	.01	.32	15	.01
13	3.4	6	.06	.24	7	0	.69	15	.03
14	3.4	6	.06	.95	7	.02	.32	15	.01
15	2.7	6	.04	3.6	10	.10	.16	15	.01
16	2.6	6	.04	4.8	12	.16	.13	15	.01
17	2.9	6	.05	3.1	11	.09	.19	16	.01
18	4.6	6	.07	1.8	11	.05	.34	20	.02
19	4.0	6	.06	.42	11	.01	.19	20	.01
20	3.6	6	.06	.73	11	.02	.62	20	.03
21	3.3	6	.05	1.3	14	.05	.23	20	.01
22	3.0	6	.05	1.6	14	.06	.21	24	.01
23	2.7	6	.04	2.9	15	.12	.17	30	.01
24	2.5	6	.04	2.0	20	.11	.13	50	.02
25	2.3	7	.04	.96	20	.05	.10	71	.02
26	2.1	7	.04	.37	24	.02	.08	30	.01
27	1.9	7	.04	.35	20	.02	.10	15	0
28	1.8	7	.03	.30	15	.01	.12	15	0
29	1.9	7	.04	.63	10	.02	.09	15	0
30	2.0	7	.04	1.7	8	.04	.06	15	0
31	---	---	---	.94	5	.01	---	---	---
TOTAL	84.07	---	1.31	41.90	---	1.24	10.96	---	.37
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	.04	30					0	0	0
2	.03	45					0	0	0
3	.01	15					0	0	0
4	0	0					0	0	0
5	0	0					0	0	0
6	0	0					0	0	0
7	0	0					0	0	0
8	0	0					0	0	0
9	0	0					0	0	0
10	0	0					0	0	0
11	0	0					0	0	0
12	0	0					0	0	0
13	0	0					0	0	0
14	0	0					0	0	0
15	0	0					0	0	0
16	0	0					0	0	0
17	0	0					0	0	0
18	0	0					0	0	0
19	0	0					0	0	0
20	0	0					0	0	0
21	0	0					0	0	0
22	0	0					0	0	0
23	0	0					0	0	0
24	0	0					0	0	0
25	0	0					0	0	0
26	0	0					0	0	0
27	0	0					0	0	0
28	0	0					0	0	0
29	0	0					0	0	0
30	0	0					387	706	1540
31	0	0					2.4	30	.19
TOTAL	.08	---	0	0	0	0	389.40	---	1540.19
YEAR	700.83		1605.28						

11118500 VENTURA RIVER NEAR VENTURA, CA--Continued

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

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
FEB							
09...	0810	12.0	93	304	76	56	68
09...	1200	13.0	80	584	126	72	89
MAR							
01...	0805	14.0	.22	50	.03	--	--
SEP							
29...	0815	17.0	1410	2230	8490	52	66
29...	1245	17.5	112	823	249	75	88
29...	1600	19.0	77	355	74	80	96

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
FEB						
09...	75	82	89	95	98	100
09...	96	100	--	--	--	--
MAR						
01...	--	--	--	97	98	100
SEP						
29...	80	93	98	99	100	--
29...	95	97	99	100	--	--
29...	98	100	--	--	--	--

11119500 CARPINTERIA CREEK NEAR CARPINTERIA, CA

LOCATION.--Lat 34°24'05", long 119°29'10", in El Rincon Grant, Santa Barbara County, on right bank at downstream side of bridge on State Highway 192, 235 ft (72 m) downstream from Gobernador Creek, and 1.8 mi (2.9 km) northeast of Carpinteria.

DRAINAGE AREA.--13.1 mi² (33.9 km²).

PERIOD OF RECORD.--January 1941 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 130 ft (40 m), from topographic map. Prior to July 1, 1958, at datum 6.00 ft (1.829 m) higher. July 2, 1958, to Aug. 27, 1970, at site 35 ft (11 m) upstream at datum 4.00 ft (1.219 m) higher.

REMARKS.--Records good. No regulation above station. Gobernador Land and Water Co. diverts from Gobernador Creek 1.8 mi (2.9 km) above station. Small lake 0.8 mi (1.3 km) southeast of station and outside the drainage area stores storm runoff and surplus water diverted by Gobernador Land and Water Co. from Gobernador Creek. At times this lake is drained by pumping water back into Gobernador Creek 1,000 ft (305 m) above station.

AVERAGE DISCHARGE.--35 years, 2.94 ft³/s (0.083 m³/s), 2,130 acre-ft/yr (2.63 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,880 ft³/s (251 m³/s) Dec. 27, 1971, gage height, 14.10 ft (4.298 m), from floodmark, from rating curve extended above 130 ft³/s (3.68 m³/s) on basis of slope-area measurement of maximum flow; no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 227 ft³/s (6.43 m³/s) Feb. 9 (0615 hrs), gage height 2.47 ft (0.753 m), no other peaks above base of 125 ft³/s (3.54 m³/s); no flow many months.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	16	0					0
2					0	8.7	0					0
3					0	6.7	0					0
4					.02	2.3	.08					0
5					2.0	1.5	.07					0
6					2.8	1.2	0					0
7					6.8	1.0	0					0
8					4.8	.85	.18					0
9					85	.89	.03					0
10					48	.82	0					.57
11					5.3	.61	0					4.0
12					1.4	.42	.04					0
13					.49	.26	.24					0
14					.61	.13	.04					0
15					.49	.08	0					0
16					.32	.04	0					0
17					1.3	.02	0					0
18					.99	.02	0					0
19					.17	.02	0					0
20					.06	.01	0					0
21					.03	0	0					0
22					.01	0	0					0
23					0	0	0					0
24					0	0	0					0
25					0	0	0					0
26					0	0	0					0
27					0	0	0					0
28					0	0	0					1.2
29					0	0	0					23
30					---	0	0					.97
31		---			---	0	---		---			---
TOTAL	0	0	0	0	160.59	41.57	.68	0	0	0	0	29.74
MEAN	0	0	0	0	5.54	1.34	.023	0	0	0	0	.99
MAX	0	0	0	0	85	16	.24	0	0	0	0	23
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	319	82	1.3	0	0	0	0	59
CAL YR 1975	TOTAL 711.63	MEAN 1.95	MAX 113	MIN 0	AC-FT 1410							
WTR YR 1976	TOTAL 232.58	MEAN .64	MAX 85	MIN 0	AC-FT 461							

FRANKLIN CREEK BASIN

11119530 FRANKLIN CREEK AT CARPINTERIA, CA

LOCATION.--Lat 34°24'15", long 119°31'05", in Pueblo Lands of Santa Barbara, Santa Barbara County, on right bank 300 ft (91 m) downstream from Malibu Drive bridge, 0.5 mi (0.8 km) north of Carpinteria, and 0.9 mi (1.4 km) upstream from mouth.

DRAINAGE AREA.--1.81 mi² (4.69 km²).

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

GAGE.--Water-stage recorder and concrete channel. Altitude of gage is 30 ft (9 m), from topographic map.

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

AVERAGE DISCHARGE.--6 years, 0.75 ft³/s (0.021 m³/s), 543 acre-ft/yr (670,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,600 ft³/s (45.3 m³/s) Dec, 27, 1971, gage height, 6.1 ft (1.86 m), from floodmark, from rating curve extended above 25 ft³/s (0.71 m³/s) on basis of computation of flow in concrete channel; minimum daily, 0.01 ft³/s (<0.001 m³/s) Oct. 1 to Nov. 24, 1970.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 50 ft³/s (1.42 m³/s) and maximum (*), from rating curve extended above 16 ft³/s (0.45 m³/s), on basis of computation of flow in concrete channel:

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)
Feb. 9	0145	390 11.0	3.47 1.057	Sept. 28	2300	*573 16.2	3.91 1.192
Mar. 1	0315	160 4.53	2.73 0.832				

Minimum daily discharge, 0.11 ft³/s (0.003 m³/s) Oct. 1, 17-21, May 17.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	.22	.18	.17	.14	13	.23	.33	.50	.14	.23	.17
2	.12	.21	.20	.17	.19	8.2	.23	.26	.28	.18	.26	.21
3	.12	.21	.28	.19	.22	.88	.37	.33	.28	.18	.41	.17
4	.14	.21	.37	.18	.24	.43	.23	.21	.28	.18	.47	.17
5	.14	.21	.36	.18	3.0	.35	.22	.28	.35	.18	.52	.21
6	.14	.21	.18	.18	2.1	.36	.21	.43	.35	.18	.49	.34
7	.16	.22	.17	.18	8.8	.36	.24	.24	.35	.18	.53	.26
8	.12	.19	.15	.18	4.8	.36	.69	.20	.35	.18	.53	.23
9	.12	.18	.17	.18	53	.36	.23	.26	.42	.18	.30	.20
10	.20	.18	.18	.18	4.6	.44	.23	.29	.35	.18	.33	2.8
11	.16	.22	.16	.18	.71	.28	.27	.20	.22	.18	.34	2.8
12	.15	.17	.34	.18	.61	.29	.57	.13	.22	.18	.20	.31
13	.14	.16	.18	.22	.47	.28	.25	.14	.22	.18	.24	.27
14	.13	.16	.16	.18	.42	.23	.22	.14	.22	.19	.19	.24
15	.12	.16	.16	.18	.38	.22	.22	.24	.22	.19	.17	.27
16	.12	.15	.19	.18	.35	.22	.21	.20	.22	.20	.20	.21
17	.11	.16	.14	.18	.34	.21	.22	.11	.22	.20	.35	.19
18	.11	.18	.17	.28	.29	.20	.23	.26	.18	.20	.38	.18
19	.11	.16	.17	.18	.29	.20	.23	.38	.18	.19	.28	.19
20	.11	.15	.18	.18	.29	.19	.29	.21	.18	.18	.25	.19
21	.11	.17	.21	.18	.28	.20	.23	.12	.18	.18	.15	.19
22	.12	.17	.18	.18	.28	.23	.23	.12	.22	.18	.18	.20
23	.12	.20	.17	.17	.27	.23	.21	.28	.22	.22	.31	.20
24	.12	.15	.16	.17	.24	.24	.26	.36	.22	.22	.26	.21
25	.12	.19	.16	.23	.22	.29	.32	.24	.18	.18	.20	.21
26	.13	.18	.16	.23	.25	.40	.37	.20	.22	.15	.15	.22
27	.14	.18	.18	.14	.29	.33	.27	.21	.21	.18	.15	.22
28	.15	.23	.17	.14	.27	.25	.23	.20	.17	.21	.15	83
29	.16	.17	.14	.18	.31	.24	.24	.22	.23	.21	.15	14
30	.16	.15	.18	.24	---	.24	.26	.28	.18	.22	.17	.50
31	.30	---	.18	.13	---	.23	---	.29	.23	.23	.19	---
TOTAL	4.26	5.50	5.98	5.72	83.65	29.94	8.21	7.36	7.62	5.83	8.73	108.56
MEAN	.14	.18	.19	.18	2.88	.97	.27	.24	.25	.19	.28	3.62
MAX	.30	.23	.37	.28	53	13	.69	.43	.50	.23	.53	83
MIN	.11	.15	.14	.13	.14	.19	.21	.11	.17	.14	.15	.17
AC-FT	8.4	11	12	11	166	59	16	15	15	12	17	215
CAL YR 1975	TOTAL	142.41	MEAN .39	MAX 15	MIN .08	AC-FT 282						
WTR YR 1976	TOTAL	281.36	MEAN .77	MAX 83	MIN .11	AC-FT 558						

MISSION CREEK BASIN

577

11119750 MISSION CREEK NEAR MISSION STREET, AT SANTA BARBARA, CA

LOCATION.--Lat 34°25'35", long 119°43'20", in Pueblo Lands of Santa Barbara, Santa Barbara County, on left bank just south of end of Los Olivos Street in Santa Barbara.

DRAINAGE AREA.--8.38 mi² (21.70 km²).

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

GAGE.--Water-stage recorder. Concrete-lined channel. Altitude of gage is 105 ft (32 m), from topographic map.

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

AVERAGE DISCHARGE.--6 years, 2.28 ft³/s (0.065 m³/s), 1,650 acre-ft/yr (2.03 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,580 ft³/s (73.1 m³/s) Jan. 18, 1973, gage height, 4.97 ft (1.515 m), from rating curve extended above 41 ft³/s (1.16 m³/s) on basis of computation of flow in concrete-lined channel; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 353 ft³/s (10.0 m³/s) Feb. 9, gage height, 2.30 ft (0.701 m), from rating curve extended above 41 ft³/s (1.16 m³/s) on basis of computation of flow in concrete-lined channel, no peak above base of 400 ft³/s (11.3 m³/s); no flow for many months.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	0	29	0		0			0
2				0	0	11	0		0			0
3				0	0	3.7	0		0			0
4				0	.02	1.1	0		0			0
5				0	1.8	.58	0		0			0
6				0	.81	.35	0		0			0
7				0	4.3	.20	0		0			0
8				0	3.5	.14	1.5		0			0
9				0	166	.10	0		0			0
10				0	51	.05	0		.01			14
11				0	4.1	0	0		0			6.2
12				0	.58	0	3.2		0			0
13				0	.27	0	.14		0			0
14				0	.14	0	0		0			0
15				0	.07	0	0		0			0
16				0	.03	0	0		0			0
17				0	0	0	0		0			0
18				0	0	0	0		0			0
19				0	0	0	0		0			0
20				0	0	0	0		0			0
21				0	0	0	0		0			0
22				0	0	0	0		0			0
23				0	0	0	0		0			0
24				0	0	0	0		0			0
25				0	0	0	0		0			0
26				.01	0	0	0		0			0
27				0	0	0	0		0			0
28				0	0	0	0		0			8.2
29				0	.33	0	0		0			6.7
30				0	---	0	0		0			0
31		---		0	---	0	---		---			---
TOTAL	0	0	0	.01	232.95	46.22	4.84	0	.01	0	0	35.1
MEAN	0	0	0	.0003	8.03	1.49	.16	0	.0003	0	0	1.17
MAX	0	0	0	.01	166	29	3.2	0	.01	0	0	14
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	.02	462	92	9.6	0	.02	0	0	70
CAL YR 1975	TOTAL 797.08		MEAN 2.18	MAX 110	MIN 0	AC-FT 1580						
WTR YR 1976	TOTAL 319.13		MEAN .87	MAX 166	MIN 0	AC-FT 633						

MISSION CREEK BASIN

11119760 VICTORIA STREET DRAIN AT OUTLET, AT SANTA BARBARA, CA

LOCATION (Revised).--Lat 34°25'09", long 119°42'36", in Pueblo Lands of Santa Barbara, Santa Barbara County, near downstream end of culvert at intersection of Euclid Avenue and Victoria Street in Santa Barbara.

DRAINAGE AREA.--0.625 mi² (1.619 km²).

PERIOD OF RECORD.--October 1970 to current year. Prior to October 1972, published as "near Santa Barbara."

GAGE.--Water-stage recorder and culvert control. Datum of gage is 58.69 ft (17.889 m) above mean sea level (Santa Barbara County Flood Control and Water Conservation District bench mark).

REMARKS.--Records fair. Flow is from street drainage. During periods of heavy rainfall flood gates on the upper end of this watershed could be closed which would reduce the drainage area by 140 acres (567,000 m²).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 155 ft³/s (4.39 m³/s) Feb. 27, 1973, gage height, 4.01 ft (1.222 m); no flow most of each year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 25, 1969, reached a stage of 4.26 ft (1.298 m), from floodmark, discharge, 178 ft³/s (5.04 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 100 ft³/s (2.83 m³/s) Feb. 9, gage height, 3.29 ft (1.003 m); no flow most of year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0		0	2.8	0		0			0
2	0	0	0		0	1.1	0		0			0
3	0	0	0		0	.09	.07		0			0
4	0	0	0		.10	0	.02		0			0
5	0	0	0		1.2	0	0		0			.02
6	0	0	0		.54	0	0		0			0
7	0	0	0		1.8	0	0		0			0
8	0	0	0		1.1	0	.35		0			0
9	0	0	0		12	0	0		.22			0
10	.05	0	0		.61	0	0		0			3.3
11	.06	0	0		0	0	.02		0			0
12	0	.06	.06		0	0	.78		0			1.2
13	0	.12	0		0	0	0		0			0
14	0	0	0		0	0	0		0			0
15	0	0	0		0	0	.01		0			0
16	0	0	0		0	0	0		0			0
17	0	.02	0		0	0	0		0			0
18	0	0	0		0	0	0		0			0
19	0	0	0		0	0	0		0			0
20	0	0	0		0	0	0		0			0
21	0	0	0		.03	0	0		0			0
22	0	0	0		0	0	0		0			0
23	0	0	0		0	0	0		0			0
24	0	0	0		0	0	0		0			0
25	0	0	.02		0	0	0		0			0
26	0	0	0		0	0	0		0			0
27	0	.02	0		0	0	0		0			0
28	0	.16	0		0	0	0		0			0
29	0	0	0		.15	0	0		0			2.4
30	.11	0	0		---	0	0		0			.91
31	0	---	0		---	0	---		---			0
TOTAL	.22	.38	.08	0	17.53	3.99	1.25	0	.22	0	0	7.83
MEAN	.007	.013	.003	0	.60	.13	.042	0	.007	0	0	.26
MAX	.11	.16	.06	0	12	2.8	.78	0	.22	0	0	3.3
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	.4	.8	.2	0	35	7.9	2.5	0	.4	0	0	16
CAL YR 1975	TOTAL 66.72	MEAN .18	MAX 12	MIN 0	AC-FT 132							
WTR YR 1976	TOTAL 31.50	MEAN .086	MAX 12	MIN 0	AC-FT 62							

11119780 ARROYO BURRO CREEK AT SANTA BARBARA, CA

LOCATION.--Lat 34°26'13", long 119°44'44", in Pueblo Lands of Santa Barbara, Santa Barbara County, on right bank 0.4 mi (0.6 km) south of State Street on Hope Avenue in Santa Barbara.

DRAINAGE AREA.--6.65 mi² (17.22 km²).

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

GAGE.--Water-stage recorder. Concrete-lined channel with a low-water control. Altitude of gage is 160 ft (49 m), from topographic map.

REMARKS.--Records poor. Small amount of inflow occurs at times from large shopping center that empties water directly into the stream. Partial regulation by Lauro Canyon Reservoir on San Roque Creek.

AVERAGE DISCHARGE.--6 years, 1.98 ft³/s (0.056 m³/s), 1,430 acre-ft/yr (1.76 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,510 ft³/s (42.8 m³/s) Jan. 18, 1973, gage height, 5.01 ft (1.527 m); maximum gage height, 5.11 ft (1.558 m) Dec. 3, 1974; no flow many days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 305 ft³/s (8.64 m³/s) Feb. 9 (0015 hrs), gage height 2.80 ft (0.853 m), no other peaks above base of 300 ft³/s (8.50 m³/s); no flow many days.

REVISIONS.--The maximum discharges for the water years 1974 and 1975 have been revised to 381 ft³/s (10.8 m³/s) Jan. 4, 1974, gage height, 2.98 ft (0.908 m) and 584 ft³/s (16.5 m³/s) Dec. 28, 1974, gage height, 3.44 ft (1.049 m), superseding figures published in WDR CA-74-1 and WDR CA-75-1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.03	0	0	0	20	.05	.03	.02	.02	0	.02
2	.02	0	.11	.02	.01	9.5	.01	.02	.02	.02	.03	.03
3	.02	.01	.25	.22	0	2.5	.21	.02	.03	.05	.01	.03
4	.03	.13	.01	.38	.56	.90	.19	.02	.04	.04	.02	.03
5	.05	0	.13	.32	4.5	.63	.01	.04	.05	.04	.02	.04
6	.03	.07	.06	.07	1.7	.48	0	.14	.02	.02	.02	.04
7	.03	.08	0	.01	6.6	.41	.01	.03	.03	0	0	.05
8	.01	.03	.01	.01	6.1	.34	1.1	0	.01	0	.03	.05
9	.06	.01	.19	.21	91	.36	.01	0	.02	.02	.05	.03
10	.21	.08	.26	.11	20	.32	0	.01	.95	.04	.04	17
11	.17	.01	0	.05	1.9	.20	.24	.01	.03	.05	.01	6.8
12	0	.05	.31	.01	.79	.16	3.4	.02	.07	.04	.03	0
13	.01	.03	.02	.01	.54	.10	.19	.02	.01	.01	.02	0
14	.01	.14	0	.14	.30	.06	0	.02	.02	.02	.01	0
15	.01	.02	.11	.08	.27	.03	.03	.02	.07	.04	.01	.01
16	.16	0	.02	.02	.13	.06	.04	.01	.02	.01	.01	0
17	0	.03	.04	.02	.01	.02	.02	.03	.05	.02	.03	0
18	.03	.01	.10	.01	.01	.02	0	.23	.04	.03	0	.01
19	.13	.10	0	.11	.14	.08	.03	0	.06	0	.01	0
20	.05	.02	.03	.01	.05	.02	0	.01	.02	0	.03	.01
21	.41	.05	.04	.05	0	.04	.01	.01	.02	0	.01	.01
22	.57	.03	.01	.03	0	.06	.01	.01	.05	.01	0	.02
23	1.3	.02	.22	.03	.24	.04	.01	.01	.05	.01	.03	.01
24	.77	0	.22	.02	.16	.04	.02	.02	.05	0	.02	.02
25	.75	.09	.04	.01	0	.04	0	.04	.05	0	.01	.01
26	.41	.22	.01	.03	0	.06	.02	.01	.05	.03	.01	.01
27	.02	.06	.01	.66	.06	.07	.01	.01	.04	.01	.01	.01
28	.06	.61	.01	.29	.02	.04	.01	.02	.04	.02	.06	8.2
29	.02	0	.01	.03	.91	.07	.01	.01	.07	.02	.03	4.4
30	.38	.06	.19	.07	---	.07	.03	.49	.04	0	.04	0
31	.30	---	.02	.03	---	.07	---	.01	---	.03	.07	---
TOTAL	6.06	1.99	2.43	3.06	136.00	36.79	5.67	1.32	2.04	.60	.67	36.84
MEAN	.20	.066	.078	.099	4.69	1.19	.19	.043	.068	.019	.022	1.23
MAX	1.3	.61	.31	.66	91	20	3.4	.49	.95	.05	.07	17
MIN	0	0	0	0	0	.02	0	0	.01	0	0	0
AC-FT	12	3.9	4.8	6.1	270	73	11	2.6	4.0	1.2	1.3	73
CAL YR 1975	TOTAL	867.13	MEAN	2.38	MAX	190	MIN	0	AC-FT	1720		
WTR YR 1976	TOTAL	233.47	MEAN	.64	MAX	91	MIN	0	AC-FT	463		

ATASCADERO CREEK BASIN

11119940 MARIA YGNACIO CREEK AT UNIVERSITY DRIVE, NEAR GOLETA, CA

LOCATION.--Lat 34°26'42", long 119°48'10", in Goleta Grant, Santa Barbara County, on right bank at University Drive, 0.2 mi (0.3 km) east of Patterson Avenue, and 1.5 mi (2.4 km) northeast of Goleta.

DRAINAGE AREA.--6.35 mi² (16.4 km²).

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 60 ft (18 m), from topographic map.

REMARKS.--Records fair. No regulation. Some pumping for irrigation.

AVERAGE DISCHARGE.--6 years, 1.18 ft³/s (0.033 m³/s), 855 acre-ft/yr (1.05 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,470 ft³/s (41.6 m³/s) Jan. 18, 1973, gage height, 4.06 ft (1.237 m), from rating curve extended above 260 ft³/s (7.36 m³/s) on basis of computation of flow in trapezoidal section; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 118 ft³/s (3.34 m³/s) Feb. 9 (time unknown), gage height, 2.10 ft (0.640 m), from outside high-water mark; no other peaks above base of 75 ft³/s (2.12 m³/s); no flow many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	1.0	0	0	13	0		0			0
2	0	0	0	0	0	5.6	0		0			0
3	0	0	0	0	0	3.6	0		0			0
4	0	0	0	0	0	.90	0		0			0
5	0	0	0	0	1.4	.51	0		0			0
6	0	0	0	0	.66	.40	.01		0			0
7	0	0	0	.75	1.7	.39	0		0			0
8	0	0	0	0	2.6	.30	.35		0			0
9	0	0	0	0	63	.25	.04		0			0
10	0	0	0	0	34	.63	0		.03			2.4
11	.01	0	0	0	1.3	.22	.06		0			2.7
12	0	0	0	.13	.80	.13	1.3		0			0
13	0	0	0	0	.57	.05	.67		0			0
14	0	0	0	.01	.52	.04	.09		0			0
15	0	0	0	0	.39	0	0		0			0
16	0	0	0	0	.26	0	0		0			0
17	0	0	0	0	.49	0	0		0			0
18	0	.30	0	0	.30	0	0		0			0
19	0	0	0	.15	.01	0	0		0			0
20	0	0	0	0	0	0	0		0			0
21	0	0	0	0	0	0	0		0			0
22	0	0	0	0	0	0	0		0			0
23	0	0	0	0	.04	0	0		0			0
24	0	0	0	0	.01	0	0		0			0
25	0	0	0	0	0	0	0		0			0
26	0	0	0	0	0	0	0		0			0
27	0	0	0	0	0	0	0		0			0
28	0	0	0	0	0	0	0		0			1.3
29	0	0	0	0	.11	0	0		0			1.8
30	0	0	0	.16	---	0	0		0			.03
31	0	---	0	0	---	0	---		---			---
TOTAL	.01	.30	1.0	1.20	108.16	26.02	2.52	0	.03	0	0	8.23
MEAN	.0003	.010	.032	.039	3.73	.84	.084	0	.001	0	0	.27
MAX	.01	.30	1.0	.75	63	13	1.3	0	.03	0	0	2.7
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	.02	.6	2.0	2.4	215	52	5.0	0	.06	0	0	16
CAL YR 1975	TOTAL	482.53	MEAN	1.32	MAX	105	MIN	0	AC-FT	957		
WTR YR 1976	TOTAL	147.47	MEAN	.40	MAX	63	MIN	0	AC-FT	293		

11120000 ATASCADERO CREEK NEAR GOLETA, CA

LOCATION.--Lat 34°25'29", long 119°48'39", in La Goleta Grant, Santa Barbara County, on downstream side of center pier of county road bridge 100 ft (30 m) downstream from Maria Ygnacio Creek, 1.3 mi (2.1 km) upstream from mouth, and 1.3 mi (2.1 km) southeast of Goleta.

DRAINAGE AREA.--18.9 mi² (49.0 km²).

PERIOD OF RECORD.--October 1941 to current year. Prior to October 1947, published as Alascadero Creek near Goleta.

GAGE.--Water-stage recorder. Datum of gage is 12.59 ft (3.837 m) above mean sea level (Santa Barbara County bench mark). Prior to Dec. 14, 1967, at site 275 ft (84 m) downstream at same datum.

REMARKS.--Records poor. No regulation above station. Small diversions for irrigation above station. Some low flow results from return irrigation waste water.

AVERAGE DISCHARGE.--35 years, 4.36 ft³/s (0.123 m³/s), 3,160 acre-ft/yr (3.90 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,380 ft³/s (152 m³/s) Jan. 18, 1973, gage height, 13.1 ft (3.99 m), from rating curve extended above 2,300 ft³/s (65.1 m³/s); maximum gage height, 13.3 ft (4.05 m), from floodmark, Dec. 3, 1974; no flow some days in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft³/s (2.83 m³/s) and maximum(*), from rating curve extended above 192 ft³/s (5.44 m³/s) on basis of slope-conveyance measurement of maximum 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)	
Feb. 9	0645	*1380	39.1	3.56	1.085	Sept. 10	2315	375	10.6	3.04	0.927
Mar. 1	0245	478	13.5	3.13	0.954	Sept. 29	0015	313	8.86	2.67	0.814

Minimum daily discharge, no flow on some days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.12	.79	.12	.05	47	.07	.04	0	0	0	.01
2	.11	.12	.31	.06	.03	18	.07	.03	.42	0	0	.02
3	.26	.11	.38	.05	.05	6.5	.21	.01	.06	0	0	.02
4	.38	.34	.22	.04	.13	1.7	.38	.06	0	0	0	.03
5	.56	.22	.18	.06	13	1.0	.22	.04	0	0	0	.02
6	.38	.08	.14	.03	4.6	.55	.08	.06	0	0	0	.03
7	.35	.11	.13	.51	16	.33	.08	.07	0	0	0	.01
8	.32	.08	.12	.08	16	.15	1.5	.05	0	.02	.02	.02
9	.23	.06	.11	.06	363	.29	.12	.04	0	.01	0	.03
10	.09	.02	.15	.08	62	.60	.03	.01	.72	0	0	.39
11	.99	.06	.14	.05	4.1	.27	.57	0	.01	0	0	.39
12	.13	.06	.31	.06	1.3	.21	6.1	0	0	0	0	.09
13	.05	.06	.15	.06	.90	.20	.89	.03	0	.03	0	.06
14	.12	.11	.07	.06	.70	.19	.05	.05	0	.03	0	.07
15	.05	.05	.03	.22	.50	.18	.02	.06	0	.05	0	.08
16	.08	.06	.08	.06	.20	.17	.02	.06	0	.11	.03	.08
17	.08	.05	.04	.06	.15	.16	.02	.04	0	.06	.04	.05
18	.22	1.8	.04	.05	.14	.15	.02	.04	0	.03	.01	.03
19	.14	.38	.06	.28	.08	.14	.02	.03	.02	0	0	.01
20	.07	.30	.03	3.1	.09	.13	.02	0	0	0	0	.03
21	.04	.30	.02	4.4	.07	.12	.04	.01	0	0	.02	.03
22	.06	.34	.02	3.9	.05	.11	.04	.03	0	0	.02	.04
23	.03	.22	.02	3.6	.14	.10	.04	.06	.01	0	0	.03
24	.04	.22	.02	3.5	.11	.09	.05	.04	.01	0	0	.01
25	.06	.30	.03	3.5	.04	.08	.05	.02	.18	0	.10	.05
26	.07	.08	.07	3.3	.07	.07	.02	0	.08	0	.30	.06
27	.06	.14	.04	1.6	.01	.07	0	0	.04	0	.02	.50
28	.06	.53	.02	.09	.01	.07	.01	.02	0	0	.01	20
29	.09	.26	.03	.03	.11	.07	.04	.03	0	0	0	36
30	.63	.11	.03	.06	---	.07	.03	.01	0	0	0	5.0
31	.25	---	.05	.06	---	.07	---	.01	---	0	0	---
TOTAL	6.02	6.69	3.83	29.13	483.63	78.84	10.81	.95	1.55	.34	.57	140.41
MEAN	.19	.22	.12	.94	16.7	2.54	.36	.031	.052	.011	.018	4.68
MAX	.99	1.8	.79	4.4	363	47	6.1	.07	.72	.11	.30	.39
MIN	.02	.02	.02	.03	.01	.07	0	0	0	0	0	.01
AC=FT	12	13	7.6	58	959	156	21	1.9	3.1	.7	1.1	279
CAL YR 1975	TOTAL	2352.24	MEAN 6.44	MAX 390	MIN 0	AC=FT 4670						
WTR YR 1976	TOTAL	762.77	MEAN 2.08	MAX 363	MIN 0	AC=FT 1510						

SAN JOSE CREEK BASIN

11120500 SAN JOSE CREEK NEAR GOLETA, CA

LOCATION.--Lat 34°27'33", long 119°48'29", in La Goleta Grant, Santa Barbara County, on right bank, 1.1 mi (1.8 km) downstream from unnamed tributary, and 1.7 mi (2.7 km) northeast of Goleta.

DRAINAGE AREA.--5.51 mi² (14.27 km²).

PERIOD OF RECORD.--January 1941 to current year.

GAGE.--Water-stage recorder and concrete low-water control. Datum of gage is 95.61 ft (29.142 m) above mean sea level (Santa Barbara County Road Department bench mark). Prior to Dec. 24, 1955, at datum 5.50 ft (1.676 m) higher. Dec. 24, 1955, to Jan. 10, 1960, at datum 1.5 ft (0.46 m) higher. Prior to Oct. 1, 1971, at site 75 ft (23 m) downstream at same datum.

REMARKS.--Records fair. No regulation above station. Many small diversions for irrigation above station.

AVERAGE DISCHARGE.--35 years, 1.83 ft³/s (0.052 m³/s), 1,330 acre-ft/yr (1.64 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,000 ft³/s (56.6 m³/s) Jan. 25, 1969, gage height, 10.10 ft (3.078 m), from rating curve extended above 400 ft³/s (11.3 m³/s) on basis of slope-area measurement at gage height 9.32 ft (2.841 m); maximum gage height, 12.74 ft (3.883 m), present datum, Jan. 21, 1943; no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 192 ft³/s (5.44 m³/s) Feb. 9 (2345 hrs), gage height, 4.47 ft (1.362 m), from rating curve extended above 23 ft³/s (0.65 m³/s) on basis of maximum discharge at old gage site 75 ft (23 m) downstream; no other peaks above base of 100 ft³/s (2.83 m³/s); no flow Oct. 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.19	.28	.19	.12	15	.45	.22	.13	.05	.03	.06
2	0	.19	.28	.15	.13	9.1	.45	.32	.09	.05	.03	.05
3	.04	.22	.28	.28	.15	6.5	.49	.36	.09	.05	.03	.05
4	.02	.23	.28	.33	.21	2.2	.53	.40	.09	.05	.03	.05
5	.04	.23	.27	.28	.60	1.5	.45	.44	.13	.05	.03	.05
6	.01	.23	.23	.15	.68	1.1	.39	.44	.14	.05	.03	.06
7	.02	.26	.25	.15	.87	1.0	.39	.45	.19	.05	.03	.06
8	.05	.26	.20	.15	2.0	1.0	.61	.45	.20	.05	.02	.05
9	.05	.19	.15	.15	64	1.0	.53	.45	.13	.05	.03	.05
10	.05	.18	.20	.15	37	1.0	.39	.45	.19	.05	.03	.57
11	.09	.17	.28	.15	2.7	.89	.33	.45	.19	.05	.03	3.0
12	.07	.15	.32	.15	1.4	.89	.79	.45	.22	.03	.03	.39
13	.05	.09	.31	.15	1.0	.79	.79	.45	.15	.02	.03	.23
14	.05	.09	.28	.15	.89	.69	.53	.37	.14	.02	.03	.23
15	.07	.09	.26	.15	.69	.61	.45	.23	.08	.02	.02	.23
16	.07	.07	.28	.19	.61	.61	.39	.25	.08	.02	.02	.22
17	.07	.07	.28	.19	.61	.53	.33	.28	.06	.02	.03	.19
18	.08	.07	.28	.15	.61	.53	.28	.36	.05	.05	.03	.21
19	.08	.07	.28	.12	.53	.61	.28	.39	.05	.05	.03	.23
20	.09	.07	.28	.15	.53	.53	.28	.36	.05	.03	.03	.23
21	.09	.08	.28	.09	.61	.53	.23	.30	.04	.02	.03	.23
22	.09	.09	.33	.12	.53	.53	.19	.39	.04	.02	.03	.25
23	.08	.07	.28	.12	.53	.45	.23	.43	.04	.02	.03	.27
24	.07	.09	.24	.12	.61	.45	.23	.46	.03	.02	.03	.23
25	.09	.08	.26	.14	.61	.45	.23	.35	.03	.03	.04	.23
26	.12	.09	.28	.15	.61	.45	.23	.30	.02	.03	.04	.23
27	.16	.11	.28	.14	.61	.45	.19	.19	.03	.03	.05	.23
28	.15	.27	.28	.14	.61	.45	.23	.19	.03	.03	.05	.60
29	.17	.28	.23	.15	.61	.45	.22	.14	.03	.03	.05	3.9
30	.24	.28	.15	.15	---	.45	.19	.17	.03	.04	.05	1.1
31	.25	---	.15	.15	---	.45	---	.17	---	.03	.06	---
TOTAL	2.53	4.56	8.03	5.00	120.66	51.19	11.30	10.66	2.77	1.11	1.03	13.48
MEAN	.082	.15	.26	.16	4.16	1.65	.38	.34	.092	.036	.033	.45
MAX	.25	.28	.33	.33	64	15	.79	.46	.22	.05	.06	3.9
MIN	0	.07	.15	.09	.12	.45	.19	.14	.02	.02	.02	.05
AC-FT	5.0	9.0	16	9.9	239	102	22	21	5.5	2.2	2.0	27

CAL YR 1975 TOTAL 805.14 MEAN 2.21 MAX 122 MIN 0 AC-FT 1600
WTR YR 1976 TOTAL 232.32 MEAN .63 MAX 64 MIN 0 AC-FT 461

SAN JOSE CREEK BASIN

583

11120510 SAN JOSE CREEK AT GOLETA, CA

LOCATION.--Lat 34°25'49", long 119°49'16", in La Goleta Grant, Santa Barbara County, on right bank south of Hollister Avenue on Kellogg Avenue, 0.5 mi (0.8 km) southeast of Goleta.

DRAINAGE AREA.--9.42 mi² (24.40 km²).

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

REVISED RECORDS.--WDR CA-73-1: 1973(M).

GAGE.--Water-stage recorder and concrete low-flow control. Altitude of gage is 10 ft (3 m), from topographic map.

REMARKS.--Records fair. No regulation above station. Diversions for irrigation and domestic use above station.

AVERAGE DISCHARGE.--6 years, 2.22 ft³/s (0.063 m³/s), 1,610 acre-ft/yr (1.99 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,950 ft³/s (55.2 m³/s) Jan. 18, 1973, gage height, 5.21 ft (1.588 m), from rating curve extended above 400 ft³/s (11.3 m³/s) on basis of slope-conveyance computation of flow in concrete channel at gage height 8.00 ft (2.438 m); no flow for long periods in each year.

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)	
Feb. 9	0545	*239	6.77	2.34	0.713
Sept. 10	2215	189	5.35	2.21	0.674

Minimum daily discharge, no flow for many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	.08	0	0	16	.11		0	0		0
2	0	0	0	0	0	10	.07		0	0		0
3	0	0	0	0	0	6.6	.31		0	0		0
4	0	0	0	0	.03	1.9	.23		0	0		0
5	0	0	0	0	3.5	1.2	.18		0	0		0
6	0	0	0	0	1.3	.83	.12		0	0		0
7	0	0	0	.14	3.6	.67	.01		0	0		0
8	0	0	0	0	6.1	.61	.81		0	0		0
9	0	0	0	0	78	.56	.28		0	0		0
10	.17	0	0	0	36	.81	.07		.13	0		9.8
11	.26	0	0	0	2.3	.47	.30		0	0		7.5
12	0	0	.02	0	1.0	.47	5.1		0	0		.27
13	0	0	0	0	.75	.40	1.1		0	0		.12
14	0	0	0	0	.61	.35	.37		0	0		0
15	0	0	0	0	.48	.32	.27		0	.01		0
16	0	0	0	0	.44	.34	.16		0	0		0
17	0	0	0	0	.38	.28	.12		0	0		0
18	0	.02	0	0	.33	.26	.09		0	0		0
19	0	0	0	0	.30	.34	.08		0	0		0
20	0	0	0	0	.29	.25	0		0	0		0
21	0	0	0	0	.24	.24	0		0	0		0
22	0	0	0	0	.24	.17	0		0	0		0
23	0	0	0	0	.27	.16	0		0	0		0
24	0	0	0	0	.40	.15	0		0	0		0
25	0	0	0	0	.24	.11	0		0	0		0
26	0	0	0	0	.20	.07	0		0	0		0
27	0	0	0	0	.18	.07	.01		0	0		0
28	0	.06	0	0	.19	.07	.11		0	0		5.3
29	0	0	0	0	.31	.10	0		0	0		6.9
30	.01	0	0	.02	---	.12	0		0	0		.68
31	0	---	0	0	---	.08	---		---	0		---
TOTAL	.44	.08	.10	.16	137.68	44.00	9.90	0	.13	.01	0	30.57
MEAN	.014	.003	.003	.005	4.75	1.42	.33	0	.004	.0003	0	1.02
MAX	.26	.06	.08	.14	78	16	5.1	0	.13	.01	0	9.8
MIN	0	0	0	0	0	.07	0	0	0	0	0	0
AC-FT	.9	.2	.2	.3	273	87	20	0	.3	.02	0	61
CAL YR 1975	TOTAL 721.11	MEAN 1.98	MAX 120	MIN 0	AC-FT 1430							
WTR YR 1976	TOTAL 223.07	MEAN .61	MAX 78	MIN 0	AC-FT 442							

GAVIOTA CREEK BASIN

11120550 GAVIOTA CREEK NEAR GAVIOTA, CA

LOCATION.--Lat 34°29'16", long 120°13'34", in Nuestra Senora Del Refugio Grant, Santa Barbara County, on left bank 1.3 mi (2.1 km) northwest of Gaviota, and 1.6 mi (2.6 km) upstream from mouth.

DRAINAGE AREA.--18.8 mi² (48.7 km²).

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 100 ft (30 m), from topographic map.

REMARKS.--Records fair. No regulation. Small pumping for domestic and resort use.

AVERAGE DISCHARGE.--10 years, 5.06 ft³/s (0.143 m³/s), 3,670 acre-ft/yr (4.53 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,000 ft³/s (113 m³/s) Jan. 24, 1967, gage height, 8.40 ft (2.560 m), from rating curve extended above 1,300 ft³/s (36.8 m³/s) on basis of slope-area measurement of maximum flow; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,730 ft³/s (49.0 m³/s) Feb. 10 (0115 hrs), gage height, 7.07 ft (2.155 m), no other peak above revised base of 200 ft³/s (5.66 m³/s); minimum daily, 0.13 ft³/s (0.004 m³/s) Aug. 30, 31, Sept. 8, 9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.72	.72	.98	.60	.67	13	1.2	.90	.92	.30	.43	.17
2	.71	.75	.98	.62	.67	17	1.5	.90	.88	.30	.36	.21
3	.64	.76	.98	.67	.67	9.9	1.5	1.0	.89	.30	.30	.21
4	.61	.73	.87	.67	.76	4.8	2.2	1.0	.88	.30	.36	.21
5	.61	.74	.95	.67	3.3	3.6	1.8	1.0	.80	.30	.36	.17
6	.69	.74	.95	.67	5.1	3.3	1.8	.98	.78	.30	.36	.21
7	.69	.70	.89	.67	5.2	2.9	1.5	1.0	.75	.25	.36	.17
8	.63	.71	.87	.67	47	2.9	3.9	.96	.77	.25	.36	.13
9	.68	.70	.87	.67	114	2.6	2.0	.98	.85	.25	.30	.13
10	.85	.69	.77	.67	427	2.6	1.7	.98	.95	.25	.30	1.3
11	.95	.67	.86	.67	38	2.2	1.7	.98	.83	.36	.25	8.4
12	.73	.68	.93	.67	8.0	2.2	2.2	.87	.74	.36	.25	.50
13	.70	.67	.87	.67	4.8	2.0	2.4	.87	.70	.50	.21	.25
14	.64	.67	.87	.64	3.9	2.0	1.8	.87	.67	.50	.25	.21
15	.63	.67	.87	.63	2.9	2.0	1.7	.87	.61	.50	.36	.25
16	.62	.85	.76	.65	2.6	1.8	1.7	.87	.55	.58	.36	.25
17	.65	.83	.76	.65	2.0	1.8	1.5	.84	.62	.50	.25	.21
18	.69	.78	.71	.66	1.8	1.8	1.5	.82	.62	.50	.25	.21
19	.71	.81	.71	.67	1.8	1.5	1.5	.88	.56	.50	.58	.36
20	.74	.87	.76	.66	1.5	1.5	1.4	.90	.51	.50	.50	.50
21	.76	.87	.67	.62	1.5	1.5	1.4	.87	.48	.43	.30	.50
22	.73	.87	.67	.63	1.2	1.5	1.4	.87	.46	.43	.30	.50
23	.67	.87	.67	.65	1.2	1.5	1.2	.87	.46	.50	.25	.50
24	.67	.87	.67	.67	2.2	1.5	1.1	.76	.36	.43	.25	.36
25	.67	.87	.67	.67	1.2	1.5	.98	.87	.36	.36	.21	.50
26	.72	.87	.67	.67	1.2	1.2	.87	.91	.30	.30	.21	.50
27	.73	.99	.58	.67	1.2	1.2	.98	.93	.30	.36	.17	.50
28	.70	1.4	.58	.67	.98	1.5	.98	.91	.30	.36	.17	9.9
29	.72	1.0	.59	.67	1.7	1.2	.96	.91	.25	.36	.17	7.6
30	.77	.98	.62	.67	---	1.2	.98	.96	.25	.43	.13	.38
31	.73	---	.60	.67	---	1.2	---	.91	---	.43	.13	---
TOTAL	21.76	24.33	24.20	20.41	684.05	96.4	47.35	28.24	18.40	11.99	9.04	35.29
MEAN	.70	.81	.78	.66	23.6	3.11	1.58	.91	.61	.39	.29	1.18
MAX	.95	1.4	.98	.67	427	17	3.9	1.0	.95	.58	.58	9.9
MIN	.61	.67	.58	.60	.67	1.2	.87	.76	.25	.25	.13	.13
AC-FT	43	48	48	40	1360	191	94	56	36	24	18	70
CAL YR 1975	TOTAL	2620.07	MEAN 7.18	MAX 571	MIN .57	AC-FT 5200						
WTR YR 1976	TOTAL	1021.46	MEAN 2.79	MAX 427	MIN .13	AC-FT 2030						

JALAMA CREEK BASIN

585

11120600 JALAMA CREEK NEAR LOMPOC, CA

LOCATION.--Lat 34°30'50", long 120°29'02", in San Julian Grant, Santa Barbara County, on downstream side of right bridge pier on Jalama Road, 0.6 mi (1.0 km) downstream from Gasper Creek, 1.4 mi (2.3 km) upstream from mouth, and 8.9 mi (14.3 km) southwest of Lompoc.

DRAINAGE AREA.--20.5 mi² (53.1 km²).

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

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

REMARKS.--Records good. No regulation or diversion above station. Some pumping upstream from wells for irrigation of about 400 acres (1.62 km²).

AVERAGE DISCHARGE.--11 years, 2.85 ft³/s (0.081 m³/s), 2,060 acre-ft/yr (2.54 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,530 ft³/s (100 m³/s) Jan. 18, 1973, gage height, 9.97 ft (3.039 m), from rating curve extended above 1,700 ft³/s (48.1 m³/s) on basis of slope-area measurement at gage height 8.05 ft (2.454 m); no flow many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 61 ft³/s (1.73 m³/s) Feb. 10, gage height, 3.70 ft (1.128 m), no peak above base of 150 ft³/s (4.25 m³/s); no flow June 23 to Sept. 27.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.17	.14	.26	.17	.10	2.5	.31	.16	.18			0
2	.17	.11	.25	.17	.10	1.2	.31	.19	.14			0
3	.13	.14	.26	.17	.13	2.2	.35	.23	.10			0
4	.10	.15	.26	.17	.13	.96	.39	.27	.12			0
5	.07	.13	.26	.17	.37	.68	.37	.27	.12			0
6	.07	.13	.26	.17	.71	.57	.35	.31	.11			0
7	.13	.14	.21	.17	.68	.51	.31	.33	.13			0
8	.13	.12	.21	.17	7.9	.51	.53	.29	.11			0
9	.13	.13	.21	.17	14	.45	.48	.25	.14			0
10	.26	.15	.13	.17	24	.44	.38	.24	.20			0
11	.30	.15	.13	.13	1.7	.45	.40	.23	.20			0
12	.16	.15	.17	.13	.86	.44	.37	.20	.18			0
13	.11	.16	.17	.17	.64	.44	.96	.12	.17			0
14	.09	.16	.17	.13	.59	.35	.46	.10	.10			0
15	.06	.13	.17	.13	.53	.37	.37	.09	.10			0
16	.05	.17	.13	.13	.45	.35	.29	.09	.12			0
17	.05	.26	.17	.13	.43	.36	.26	.12	.13			0
18	.08	.22	.17	.10	.38	.31	.26	.10	.05			0
19	.12	.20	.17	.13	.39	.31	.26	.08	.04			0
20	.10	.16	.21	.13	.44	.33	.24	.07	.04			0
21	.12	.22	.21	.09	.44	.37	.22	.09	.03			0
22	.14	.22	.21	.08	.44	.37	.24	.10	.02			0
23	.12	.22	.17	.09	.45	.37	.25	.09	0			0
24	.10	.17	.17	.10	.59	.36	.21	.08	0			0
25	.07	.16	.13	.08	.51	.33	.18	.07	0			0
26	.10	.15	.17	.10	.44	.32	.19	.07	0			0
27	.23	.25	.31	.09	.44	.31	.20	.08	0			0
28	.19	.54	.25	.10	.49	.30	.11	.08	0			2.2
29	.10	.47	.15	.10	.55	.31	.07	.06	0			2.3
30	.21	.30	.13	.13	---	.31	.11	.05	0			.25
31	.26	---	.19	.10	---	.31	---	.13	---			---
TOTAL	4.12	5.80	6.06	4.07	58.88	17.39	9.43	4.64	2.53	0	0	4.75
MEAN	.13	.19	.20	.13	2.03	.56	.31	.15	.084	0	0	.16
MAX	.30	.54	.31	.17	24	2.5	.96	.33	.20	0	0	2.3
MIN	.05	.11	.13	.08	.10	.30	.07	.05	0	0	0	0
AC-FT	8.2	12	12	8.1	117	34	19	9.2	5.0	0	0	9.4
CAL YR 1975 TOTAL	1248.93			3.42	324	.04	2480					
WTR YR 1976 TOTAL	117.67			.32	24	0	233					

SANTA YNEZ RIVER BASIN

11121000 SANTA YNEZ RIVER AT JAMESON LAKE, NEAR MONTECITO, CA

LOCATION.--Lat 34°29'32", long 119°30'25", in SW¼NE¼NW¼ sec.28, T.5 N., R.25 W., Santa Barbara County, on upstream face of Juncal Dam, 6.5 mi (10.5 km) north of Carpinteria, and 8 mi (13 km) northeast of Montecito.

DRAINAGE AREA.--13.9 mi² (36.0 km²), excludes that of Alder Creek.

PERIOD OF RECORD.--December 1930 to current year. Prior to October 1938, published as "at Juncal Reservoir, near Montecito."

GAGE.--Two water-stage recorders. Datum of lake gage is 2,021.6 ft (616.18 m) above mean sea level (Bureau of Reclamation bench mark), or 2,000 ft (609.6 m) above arbitrary datum (called sea level) generally used for works in this vicinity. Supplementary gage and sharp-crested weir on outlet conduit of lake release, at different datum.

REMARKS.--Records of total inflow represent all water reaching Jameson Lake including precipitation on the lake. Total inflow computed on basis of records of storage, diversion (draft) to the city of Montecito, spill and release to river, and evaporation. Records of net inflow exclude precipitation on lake surface. Monthly evaporation from lake surface computed on basis of evaporation from Colorado land pan using coefficient of 0.80. Area table is based on survey made in 1961. Capacity table is based on survey made in 1969. Lake capacity at spillway level, gage height, 223.82 ft (68.220 m), 6,119 acre-ft (7.54 hm³). Dead storage, 18 acre-ft (22,200 m³), below lowest outlet at gage height 139.0 ft (42.37 m) included in these records. There is no regulation or diversion above station. At times flow of Alder Creek, which enters Santa Ynez River 2 mi (3 km) downstream from Juncal Dam, is diverted at elevation, 2,250 ft (686 m) through a tunnel to Jameson Lake and is included in these records.

COOPERATION.--Reservoir-operation records and related data were furnished by Montecito County Water District.

AVERAGE DISCHARGE.--45 years (water years 1932-76), 6.36 ft³/s (0.180 m³/s), 4,610 acre-ft/yr (5.68 hm³/yr).

MONTHLY NET DISCHARGE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Gage height (feet) ^a	Contents (acre-feet)	Change in contents (acre-feet)	Draft (acre-feet)	Spill and release (acre-feet)	Evaporation (acre-feet)	Total inflow (acre-feet)	Rain on reservoir (acre-feet)	Net inflow (acre-feet)
Sept. 30.....	219.59	5550	--	--	--	--	--	--	--
Oct. 31.....	218.43	5410	-140	76	0	19	-45	4	-49
Nov. 30.....	217.57	5300	-110	72	0	13	-25	1	-26
Dec. 31.....	216.82	5200	-100	77	0	10	-13	3	-16
CAL YR 1975.....	--	--	-350	1152	2266	348	3416	250	3166
Jan. 31.....	216.15	5120	-80	80	0	13	13	0	13
Feb. 29.....	223.90	6130	+1010	39	297	13	1359	140	1219
Mar. 31.....	223.92	6130	0	44	340	26	410	30	380
Apr. 30.....	224.14	6160	+30	39	0	24	93	16	77
May 31.....	223.65	6090	-70	62	0	42	34	0	34
June 30.....	222.41	5930	-160	110	0	56	6	2	4
July 31.....	220.85	5720	-210	110	0	57	-43	0	-43
Aug. 31.....	219.65	5560	-160	78	0	45	-37	0	-37
Sept. 30.....	219.20	5500	-60	79	0	22	41	71	-30
WTR YR 1976.....	--	--	-50	866	637	340	1793	267	1526

^a Gage height at 1800.

NOTE.--For months when inflow to the lake was small and other quantities were large, discordant figures of net inflow may appear. This arises primarily from the difficulty of computing net inflow as the residual of several larger quantities, which are not susceptible to measurement with a precision necessary to produce a final answer within desirable limits of accuracy.

11122000 SANTA YNEZ RIVER ABOVE GIBRALTAR DAM, NEAR SANTA BARBARA, CA

LOCATION.--Lat 34°31'34", long 119°41'08", in SW¼NW¼SW¼ sec.11, T.5 N., R.27 W., Santa Barbara County, on upstream face of Gibraltar Dam, 7 mi (11 km) north of Santa Barbara.

DRAINAGE AREA.--216 mi² (559 km²).

PERIOD OF RECORD.--April 1920 to current year. November 1903 to November 1918 (fragmentary) at river station at damsite; records not equivalent because records since April 1920 are based on operation of Gibraltar Reservoir, and since December 1930, Jameson Lake. Prior to October 1945, published as "Santa Ynez River near Santa Barbara."

GAGE.--Two water-stage recorders. Datum of reservoir gage is at mean sea level. Supplementary gage and sharp-crested weir on diversion from reservoir at different datum. See WSP 1735 for history of changes on both gages prior to Oct. 1, 1955. Spill and release measured by river gaging station below dam (station 11123000).

REMARKS.--Records of total inflow represent all water reaching Gibraltar Reservoir, including precipitation on reservoir. Total inflow computed on basis of records of storage diversion (draft) to city of Santa Barbara, spill and release to river, and evaporation. Records of net inflow exclude precipitation on reservoir surface. Monthly evaporation from reservoir surface computed on basis of evaporation from Colorado land pan using coefficient of 0.80. Area and capacity tables are based on survey made in October 1973. Reservoir capacity at spillway level, elevation, 1,399.82 ft (426.665 m), 9,300 acre-ft (11.5 hm³). Silt level of reservoir at elevation 1,344 ft (410 m). Lowest outlet at elevation 1,333.86 ft (406.561 m). Flow regulated by Jameson Lake (station 11121000) since December 1930.

COOPERATION.--Reservoir-operation records and related data were furnished by city of Santa Barbara.

MONTHLY NET INFLOW, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet) ^a	Contents (acre- feet)	Change in contents (acre- feet)	Draft (acre- feet)	Spill and release (acre- feet)	Evapo- ration (acre- feet)	Total inflow (acre- feet)	Rain on reservoir (acre- feet)	Net inflow (acre- feet)
Sept. 30.....	1389.47	6730	--	--	--	--	--	--	--
Oct. 31.....	1388.25	6460	-270	207	0	76	13	7	6
Nov. 30.....	1387.33	6260	-200	196	0	51	47	8	39
Dec. 31.....	1384.83	5730	-530	607	0	34	111	4	107
CAL YR 1975.....	--	--	-140	5573	26253	1028	32714	333	32381
Jan. 31.....	1382.10	5180	-550	608	0	43	101	0	101
Feb. 29.....	1395.91	8270	+3090	329	0	36	3455	193	3262
Mar. 31.....	1397.38	8650	+380	567	0	75	1022	43	979
Apr. 30.....	1396.76	8490	-160	567	0	73	480	24	456
May 31.....	1394.84	8000	-490	590	0	116	216	0	216
June 30.....	1391.85	7270	-730	670	35	156	131	0	131
July 31.....	1387.94	6400	-870	662	180	142	114	0	114
Aug. 31.....	1383.88	5540	-860	676	138	114	68	1	67
Sept. 30.....	1381.38	5040	-500	602	128	66	296	70	226
WTR YR 1976.....	--	--	-1690	6281	481	982	6054	350	5704

^a Elevation at 1800.

NOTE.--For months when inflow to the reservoir was small and other quantities were large, discordant figures of net inflow may appear. This arises primarily from the difficulty of computing net inflow as the residual of several larger quantities, which are not susceptible to measurement with a precision necessary to produce a final answer within desirable limits of accuracy.

SANTA YNEZ RIVER BASIN

11123000 SANTA YNEZ RIVER BELOW GIBRALTAR DAM, NEAR SANTA BARBARA, CA

LOCATION.--Lat 34°31'28", long 119°41'11", in NW¼SW¼SW¼ sec.11, T.5 N., R.27 W., Santa Barbara County, on left bank 700 ft (213 m) downstream from Gibraltar Dam, and 7 mi (11 km) north of Santa Barbara.

DRAINAGE AREA.--216 mi² (559 km²).

PERIOD OF RECORD.--April 1920 to current year (monthly discharge only prior to October 1941).

GAGE.--Two water-stage recorders. Datum of gage on main channel is 1,227 ft (374 m) above mean sea level. Supplementary gage and sharp-crested wier on the release channel from Gibraltar Dam to river at different datum. See WSP 1735 for history of changes on both gages prior to May 20, 1958.

REMARKS.--Records good. Flow regulated by Jameson Lake (see sta 11121000) and Gibraltar Reservoir (see sta 11122000). City of Santa Barbara diverted 6,280 acre-ft (7.74 hm³) during current year from Gibraltar Reservoir; Montecito County Water District diverted 866 acre-ft (1.07 hm³) during current year from Jameson Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,200 ft³/s (1,530 m³/s) Jan. 25, 1969, gage height, 25.8 ft (7.86 m), from rating curve extended above 2,100 ft³/s (59.5 m³/s) on basis of computations of flow from gate openings and flow over dam at gage heights 17.5 ft (5.33 m) and 25.8 ft (7.86 m); no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4.4 ft³/s (0.12 m³/s) June 28 (gage height, unknown); no flow many months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	3.6	2.7	2.8
2									0	3.6	2.7	2.9
3									0	3.6	2.7	2.9
4									0	3.6	2.7	2.9
5									0	3.6	2.7	2.9
6									0	3.1	2.7	2.9
7									0	2.7	2.7	2.9
8									0	2.7	2.7	2.8
9									0	2.7	2.7	2.7
10									0	2.7	2.7	2.7
11									0	2.7	2.1	2.7
12									0	2.7	1.7	2.7
13									0	2.7	1.7	2.7
14									0	3.0	1.7	2.7
15									0	3.2	1.7	2.3
16									0	3.2	1.7	2.1
17									0	3.2	1.7	2.1
18									0	3.2	1.7	2.1
19									0	3.2	1.7	2.1
20									0	3.2	1.7	2.1
21									.80	2.8	1.7	2.1
22									1.3	2.5	1.7	1.5
23									1.3	2.5	1.7	1.1
24									1.1	2.5	1.7	1.1
25									1.1	2.5	2.3	1.1
26									1.1	2.5	2.7	1.1
27									1.1	2.5	2.7	1.1
28									2.8	2.6	2.7	1.1
29									3.6	2.7	2.7	1.1
30									3.6	2.7	2.7	1.1
31		---			---		---		---	2.7	2.7	---
TOTAL	0	0	0	0	0	0	0	0	17.80	90.7	69.7	64.4
MFAN	0	0	0	0	0	0	0	0	.59	2.93	2.25	2.15
MAX	0	0	0	0	0	0	0	0	3.6	3.6	2.7	2.9
MIN	0	0	0	0	0	0	0	0	0	2.5	1.7	1.1
AC-FT	0	0	0	0	0	0	0	0	35	180	138	128
CAL YR 1975	TOTAL	13237.13	MEAN	36.3	MAX	3170	MIN	0	AC-FT	26260		
WTR YR 1976	TOTAL	242.60	MEAN	.66	MAX	3.6	MIN	0	AC-FT	481		

11123500 SANTA YNEZ RIVER BELOW LOS LAURELES CANYON, NEAR SANTA YNEZ, CA

LOCATION.--Lat 34°32'37", long 119°51'50", in San Marcos Grant, Santa Barbara County, on left bank 0.3 mi (0.5 km) downstream from Los Laureles Canyon Creek, and 13.3 mi (21.4 km) east of Santa Ynez.

DRAINAGE AREA.--277 mi² (717 km²).

PERIOD OF RECORD.--April 1947 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 787.8 ft (240.12 m) above mean sea level.

REMARKS.--Records fair. Flow regulated by Jameson Lake and Gibraltar Reservoir (stations 11121000, 11122000). Water diverted out of basin from these reservoirs to cities of Montecito and Santa Barbara for municipal supply. Low flow affected by intermittent pumping for irrigation from infiltration gallery in riverbed at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 67,500 ft³/s (1,910 m³/s) Jan. 25, 1969, gage height, 18.88 ft (5.755 m), from rating curve extended above 11,600 ft³/s (329 m³/s) on basis of maximum flow for station below Gibraltar Dam plus tributary inflow; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 577 ft³/s (16.3 m³/s) Feb. 10, gage height, 6.37 ft (1.942 m); no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	5.6	3.6	1.6				
2					0	14	3.4	.15				
3					0	32	3.3	.94				
4					0	16	3.3	1.1				
5					0	12	3.4	0				
6					0	9.7	3.5	0				
7					0	8.6	3.4	0				
8					2.6	7.9	3.7	0				
9					288	7.6	3.9	0				
10					279	7.3	3.7	.06				
11					46	6.7	3.5	.43				
12					27	6.4	3.6	.61				
13					18	5.8	5.3	.47				
14					14	5.5	5.9	.10				
15					12	5.0	5.3	0				
16					10	4.8	4.9	0				
17					9.2	4.5	4.2	0				
18					8.4	4.3	3.8	0				
19					7.4	4.1	3.5	0				
20					7.0	3.9	3.2	0				
21					6.8	3.9	3.0	0				
22					6.6	3.7	2.0	0				
23					6.0	3.7	1.1	0				
24					5.5	3.7	.91	.04				
25					5.5	3.7	1.4	.05				
26					5.5	3.7	1.2	.05				
27					5.4	3.9	.15	.03				
28					5.2	3.9	.01	0				
29					5.0	3.9	1.4	0				
30					---	3.8	2.0	0				
31		---			---	3.7	---	0	---			---
TOTAL	0	0	0	0	780.1	213.3	91.57	5.63	0	0	0	0
MEAN	0	0	0	0	26.9	6.88	3.05	.18	0	0	0	0
MAX	0	0	0	0	288	32	5.9	1.6	0	0	0	0
MIN	0	0	0	0	0	3.7	.01	0	0	0	0	0
AC-FT	0	0	0	0	1550	423	182	11	0	0	0	0
CAL YR 1975	TOTAL	18514.42	MEAN	50.7	MAX	4370	MIN	0	AC-FT	36720		
WTR YR 1976	TOTAL	1090.60	MEAN	2.98	MAX	288	MIN	0	AC-FT	2160		

SANTA YNEZ RIVER BASIN

11124500 SANTA CRUZ CREEK NEAR SANTA YNEZ, CA

LOCATION.--Lat 34°35'48", long 119°54'28", in San Marcos Grant, Santa Barbara County, on right bank 0.6 mi (1.0 km) downstream from Pine Canyon, and 9.9 mi (15.9 km) east of Santa Ynez.

DRAINAGE AREA.--74.0 mi² (191.7 km²).

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 783.38 ft (238.774 m) above mean sea level. See WSP 1735 for history of changes prior to Sept. 27, 1952. Sept. 27, 1952, to June 24, 1969, at datum 3.25 ft (0.991 m) higher.

REMARKS.--Records fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--35 years, 16.3 ft³/s (0.462 m³/s), 11,810 acre-ft/yr (14.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,050 ft³/s (200 m³/s) Feb. 24, 1969, gage height, 14.45 ft (4.404 m), from floodmark, present datum, from rating curve extended above 2,500 ft³/s (70.8 m³/s) on basis of slope-area measurement at gage height 14.16 ft (4.316 m); no flow at times since 1953.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 234 ft³/s (6.63 m³/s) Feb. 9, (1000 hrs), gage height, 8.59 ft (2.618 m), no other peaks above base of 100 ft³/s (2.83 m³/s); no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	15	3.0	1.3	.14	.01		
2					0	16	3.0	1.3	.12	0		
3					0	14	3.1	1.3	.11	0		
4					0	8.6	4.2	1.3	.08	0		
5					0	5.8	4.5	1.4	.08	0		
6					0	4.9	3.8	1.3	.08	0		
7					.59	4.4	3.3	1.3	.08	0		
8					7.7	4.2	3.7	1.1	.08	0		
9					100	3.8	3.6	.97	.08	0		
10					60	3.6	3.0	.90	.08	0		
11					20	3.5	3.1	.86	.07	0		
12					10	3.4	3.3	.68	.05	0		
13					6.4	3.3	5.1	.56	.05	0		
14					4.5	3.3	4.5	.55	.05	0		
15					4.3	3.2	3.8	.55	.06	0		
16					3.7	3.2	3.4	.42	.06	0		
17					3.0	3.2	3.0	.44	.05	0		
18					2.6	3.2	2.7	.42	.05	0		
19					2.3	3.2	2.5	.42	.07	0		
20					2.3	3.1	2.2	.42	.08	0		
21					2.1	3.1	2.1	.42	.08	0		
22					2.0	3.1	1.6	.42	.08	0		
23					2.2	3.1	1.6	.30	.05	0		
24					2.1	3.1	1.6	.25	.05	0		
25					2.2	3.1	1.4	.24	.05	0		
26					2.2	3.1	1.3	.24	.04	0		
27					2.1	3.1	1.3	.24	.04	0		
28					2.0	3.1	1.5	.24	.03	0		
29					2.1	3.1	1.6	.24	.02	0		
30					---	3.1	1.5	.17	.02	0		
31		---			---	3.0	---	.16	---	0		---
TOTAL	0	0	0	0	246.39	146.9	84.3	20.41	1.98	.01	0	0
MEAN	0	0	0	0	8.50	4.74	2.81	.66	.066	.0003	0	0
MAX	0	0	0	0	100	16	5.1	1.4	.14	.01	0	0
MIN	0	0	0	0	0	3.0	1.3	.16	.02	0	0	0
AC-FT	0	0	0	0	489	291	167	40	3.9	.02	0	0
CAL YR 1975	TOTAL	4247.50	MEAN	11.6	MAX	680	MIN	0	AC-FT	8420		
WTR YR 1976	TOTAL	499.99	MEAN	1.37	MAX	100	MIN	0	AC-FT	992		

SANTA YNEZ RIVER BASIN

591

11125500 LAKE CACHUMA NEAR SANTA YNEZ, CA

LOCATION.--Lat 34°34'57", long 119°58'47", in Lomas de la Purification Grant, Santa Barbara County, at Cachuma Dam on Santa Ynez River, on upstream face near left end of dam, 6.1 mi (9.8 km) east of Santa Ynez.

DRAINAGE AREA.--417 mi² (1,080 km²).

PERIOD OF RECORD.--November 1952 to current year. Prior to October 1960, published as "at Cachuma Reservoir near Santa Ynez."

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (Bureau of Reclamation bench mark). Prior to Oct. 1, 1965, nonrecording gage.

REMARKS.--Reservoir is formed by earthfill dam. Storage began November 1952. Capacity table is based on surveys made in January 1953. Dead storage below outlet gage to river, elevation, 600 ft (182.9 m), 3,114 acre-ft (3.84 hm³), included in contents. Capacity below sill of inlet to Tecolote tunnel, elevation, 660 ft (201.2 m), 32,514 acre-ft (40.1 hm³), below spillway level, elevation, 720 ft (219.5 m), 125,292 acre-ft (154 hm³); below top of 4 radial gates, elevation, 750 ft (228.6 m), 204,874 acre-ft (253 hm³). Water is released from outlet to Santa Ynez River to satisfy downstream water rights. Water diverted to Tecolote tunnel for use by city of Santa Barbara and nearby communities, to Santa Ynez River Water Conservation District, and to Cachuma recreation area.

COOPERATION.--Reservoir elevation, contents, and diversion figures furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 221,100 acre-ft (273 hm³) Feb. 24, 1969, elevation, 755.11 ft (230.158 m); minimum since initial filling in April 1958, 116,900 acre-ft (144 hm³) Jan. 7, 1973, elevation, 716.19 ft (218.295 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 184,300 acre-ft (227 hm³) Oct. 1, elevation, 743.10 ft (226.497 m); minimum, 145,200 acre-ft (179 hm³) Sept. 30, elevation, 728.43 ft (222.025 m).

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Total diversions (acre-feet)
Sept. 30.....	743.15	184500	--	--
Oct. 31.....	741.40	179500	-5000	2950
Nov. 30.....	740.25	176300	-3200	2510
Dec. 31.....	739.47	174100	-2200	1800
CAL YR 1975.....	--	--	-5000	27350
Jan. 31.....	738.32	170900	-3200	2590
Feb. 29.....	739.16	173200	+2300	1370
Mar. 31.....	738.84	172400	-800	1640
Apr. 30.....	738.15	170500	-1900	1920
May 31.....	736.47	165900	-4600	3490
June 30.....	734.54	160800	-5100	3750
July 31.....	732.49	155400	-5400	3680
Aug. 31.....	729.60	148100	-7300	3540
Sept. 30.....	728.43	145200	-2900	1570
WTR YR 1976.....	--	--	-39300	30810

SANTA YNEZ RIVER BASIN

11126000 SANTA YNEZ RIVER NEAR SANTA YNEZ, CA

LOCATION.--Lat 34°35'21", long 119°59'16", in Canada de los Pinos Grant, Santa Barbara County, on right bank 0.7 mi (1.1 km) downstream from Cachuma Dam, and 5.5 mi (8.8 km) southeast of Santa Ynez.

DRAINAGE AREA.--422 mi² (1,093 km²).

PERIOD OF RECORD.--December 1928 to September 1931, October 1932 to September 1976 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 545.66 ft (166.317 m) above mean sea level (Bureau of Reclamation bench mark). Prior to Oct. 1, 1955, at site 2.5 mi (4.0 km) downstream at different datum. Oct. 1, 1955, to Sept. 16, 1969, at site 0.4 mi (0.6 km) downstream at datum 7.2 ft (2.19 m) higher.

REMARKS.--Records poor. Flow regulated by Jameson Lake since December 1930, Gibraltar Reservoir, and Lake Cachuma since November 1952 (stations 11121000, 11122000, 11125500). Water diverted out of basin from Jameson Lake, Gibraltar Reservoir, and Lake Cachuma to cities of Montecito, Santa Barbara, and to the Santa Ynez Valley for municipal supply. Some water pumped from wells along river banks for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 79,000 ft³/s (2,240 m³/s) Jan. 25, 1969, gage height, 22.00 ft (6.706 m), from floodmark, present datum, on basis of computation of maximum flow over dam; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 272 ft³/s (7.70 m³/s) Aug. 16, gage height, 4.98 ft (1.518 m); no flow several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0				0			0	0	2.8	0	0
2	0				0			0	0	0	0	0
3	0				0			0	0	0	0	0
4	0				0			0	0	0	0	0
5	0				0			0	0	0	0	0
6	0				0			0	0	0	0	0
7	74				0			0	0	0	0	0
8	150				0			0	0	0	0	0
9	153				10			0	0	0	0	0
10	66				20			0	0	0	0	0
11	.30				.72			0	0	0	0	0
12	.02				0			0	0	0	0	0
13	0				0			1.1	0	0	0	0
14	0				0			3.2	0	0	0	0
15	0				0			3.3	0	0	0	0
16	0				0			6.5	0	0	65	0
17	0				0			4.3	0	0	268	0
18	0				0			5.3	0	0	254	0
19	0				0			6.2	0	12	258	0
20	0				0			3.4	0	12	260	0
21	0				0			3.8	0	14	97	0
22	0				0			4.5	0	10	.67	0
23	0				0			4.0	0	1.2	.02	0
24	0				0			.17	0	0	0	0
25	0				0			0	0	0	0	0
26	0				0			0	0	0	0	0
27	0				0			0	0	0	0	0
28	0				0			0	0	0	0	118
29	0				0			0	19	0	0	225
30	0				---			0	14	0	0	226
31	0	---			---		---	0	---	0	0	---
TOTAL	443.32	0	0	0	30.72	0	0	45.77	33	52.0	1202.69	569
MEAN	14.3	0	0	0	1.06	0	0	1.48	1.10	1.68	38.8	19.0
MAX	153	0	0	0	20	0	0	6.5	19	14	268	226
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	879	0	0	0	61	0	0	91	65	103	2390	1130
CAL YR 1975	TOTAL	10759.18	MEAN	29.5	MAX	1920	MIN	0	AC-FT	21340		
WTR YR 1976	TOTAL	2376.50	MEAN	6.49	MAX	268	MIN	0	AC-FT	4710		

11128250 ALAMO PINTADO CREEK NEAR SOLVANG, CA

LOCATION.--Lat 34°37'06", long 120°07'11", in SE¼NW¼NW¼ sec.11, T.6 N., R.31 W., Santa Barbara County, on right bank at downstream side of bridge on Alamo Pintado Road, 1.5 mi (2.4 km) northeast of Solvang.

DRAINAGE AREA.--29.4 mi² (76.1 km²).

PERIOD OF RECORD.--October 1970 to current year. Records prior to October 1970 in files of Santa Barbara County Flood Control District.

GAGE.--Water-stage recorder. Datum of gage is 540.49 ft (164.741 m) above mean sea level (Santa Barbara County bench mark).

REMARKS.--Records poor. No regulation above station. Pumping from wells along stream for irrigation.

AVERAGE DISCHARGE.--6 years, 0.081 ft³/s (0.002 m³/s), 59 acre-ft/yr (72,700 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 466 ft³/s (13.2 m³/s) Jan. 18, 1973, gage height, 6.00 ft (1.829 m), from floodmark, from rating curve extended above 3.2 ft³/s (0.091 m³/s) on basis of slope-area measurement of peak flow; no flow most of each year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 25, 1969, reached a stage of 10.32 ft (3.146 m), from information by Santa Barbara County Flood Control District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8.8 ft³/s (0.25 m³/s) Sept. 28, gage height, 3.53 ft (1.076 m), no peak above base of 10 ft³/s (0.28 m³/s); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	.01	0	0				0
2					0	.04	0	0				0
3					0	.02	0	0				0
4					0	0	0	0				0
5					0	0	0	0				0
6					0	0	0	0				0
7					0	0	0	0				0
8					0	0	0	0				0
9					.05	0	0	0				0
10					.12	0	0	0				.14
11					0	0	0	0				.13
12					0	0	.04	0				0
13					0	0	0	0				0
14					0	0	0	0				0
15					0	0	0	0				0
16					0	0	0	0				0
17					0	0	0	0				0
18					0	0	0	0				0
19					0	0	0	0				0
20					0	0	0	0				0
21					0	0	0	0				0
22					0	0	0	0				0
23					0	0	0	0				0
24					0	0	0	.01				0
25					0	0	0	.01				0
26					0	0	0	.03				0
27					0	0	0	.05				0
28					0	0	0	.02				.72
29					0	0	0	.01				.39
30					---	0	0	0				0
31		---			---	0	---	0	---			---
TOTAL	0	0	0	0	.17	.07	.04	.13	0	0	0	1.38
MEAN	0	0	0	0	.006	.002	.001	.004	0	0	0	.046
MAX	0	0	0	0	.12	.04	.04	.05	0	0	0	.72
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	.3	.1	.08	.3	0	0	0	2.7
CAL YR 1975	TOTAL	53.94	MEAN	.15	MAX	15	MIN	0	AC-FT	107		
WTR YR 1976	TOTAL	1.79	MEAN	.005	MAX	.72	MIN	0	AC-FT	3		

SANTA YNEZ RIVER BASIN

11128300 ALISAL RESERVOIR NEAR SOLVANG, CA

LOCATION.--Lat 34°32'56", long 120°07'45", in SE¼NE¼NW¼ sec.4, T.5 N., R.31 W., Santa Barbara County, in cove, on right bank 0.4 mi (0.6 km) upstream from reservoir spillway, and 3 mi (5 km) south of Solvang.

DRAINAGE AREA.--7.83 mi² (20.28 km²).

PERIOD OF RECORD.--December 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

REMARKS.--Lake is formed by earthfill dam. Storage began Dec. 19, 1970. Usable capacity, 2,260 acre-ft (2.79 hm³) between bottom of outlet gate at elevation 555.70 ft (169.377 m) and crest of spillway at elevation 599.88 ft (182.843 m). Dead storage, 110 acre-ft (136,000 m³). Inflow must total 150 acre-ft (185,000 m³) during any one month between November and June to store flow for year.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 2,650 acre-ft (3.27 hm³) Feb. 27, 1973, elevation, 602.95 ft (183.779 m); minimum, 748 acre-ft (922,000 m³) Nov. 8-10, 1972, elevation, 577.15 ft (175.915 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,520 acre-ft (3.11 hm³) Feb. 10, elevation, 601.55 ft (183.352 m); minimum, 2,190 acre-ft (2.70 hm³) Sept. 10, elevation, 597.93 ft (182.249 m).

MONTHEND ELEVATION AND CONTENTS, AT 1800, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	599.11	2300	--
Oct. 31.....	598.80	2270	-30
Nov. 30.....	598.63	2260	-10
Dec. 31.....	598.53	2250	-10
CAL YR 1975.....	--	--	-170
Jan. 31.....	598.46	2240	-10
Feb. 29.....	600.23	2400	+160
Mar. 31.....	600.16	2390	-10
Apr. 30.....	600.05	2380	-10
May 31.....	599.70	2350	-30
June 30.....	599.27	2310	-40
July 31.....	598.61	2250	-60
Aug. 31.....	598.07	2210	-40
Sept. 30.....	598.42	2240	+30
WTR YR 1976.....	--	--	-60

11128500 SANTA YNEZ RIVER AT SOLVANG, CA

LOCATION.--Lat 34°35'06", long 120°08'37", in San Carlos de Jonata Grant, Santa Barbara County, on downstream side of right abutment of Mission bridge, 25 ft (8 m) downstream from Alisal Creek, 0.8 mi (1.3 km) southwest of Solvang, and 10 mi (16 km) downstream from Lake Cachuma.

DRAINAGE AREA.--579 mi² (1,500 km²).

PERIOD OF RECORD.--October 1928 to November 1936, June 1937 to November 1940 (irrigation seasons only), October 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 362.43 ft (110.469 m) above mean sea level. Various datums used during period of record. July 29 to Sept. 30, 1953, auxiliary water-stage recorder 750 ft (229 m) upstream at different datum. Oct. 1, 1953, to Sept. 30, 1968, water-stage recorder at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records fair. Flow regulated by Jameson Lake, Gibraltar Reservoir, and since November 1952 by Lake Cachuma (stations 11121000, 11122000, 11125500). Water diverted out of basin from Jameson Lake, Gibraltar Reservoir, and Lake Cachuma to cities of Montecito, Santa Barbara, and Goleta for municipal supply. Water for irrigation pumped from wells along banks of river in valley upstream.

EXTREMES FOR PERIOD OF RECORD (1928-36 AND SINCE 1946).--Maximum discharge, 82,000 ft³/s (2,320 m³/s), estimated, Jan. 25, 1969, gage height, 17.1 ft (5.21 m), from floodmark; no flow for several months in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 644 ft³/s (18.2 m³/s) Feb. 10, gage height, 5.39 ft (1.643 m); no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	3.6	1.4	.95			0	0
2					0	23	.95	.95			0	0
3					0	15	.75	.95			0	0
4					0	7.5	1.2	1.1			0	0
5					0	5.4	1.2	.84			0	0
6					0	4.3	1.7	.75			0	0
7					0	4.5	2.3	.66			0	0
8					1.5	4.5	1.2	.51			0	0
9					28	4.2	.95	.23			0	0
10					243	4.3	.84	.27			0	0
11					25	3.9	.84	.24			0	0
12					11	3.5	1.4	0			0	0
13					8.2	2.7	2.3	0			0	0
14					7.4	2.5	2.1	0			0	0
15					7.0	2.9	1.9	0			0	0
16					7.0	2.6	1.7	0			0	0
17					6.0	3.0	1.7	0			0	0
18					4.3	2.9	2.3	0			0	0
19					8.2	2.8	1.9	0			42	0
20					11	2.5	1.9	0			129	0
21					5.5	2.7	1.7	0			122	0
22					4.0	2.4	1.6	0			12	0
23					3.6	2.7	1.3	0			3.2	0
24					2.7	2.2	1.2	0			1.4	0
25					2.2	2.1	1.1	0			1.3	0
26					2.0	1.9	.95	0			.22	0
27					1.9	1.6	.95	0			.09	0
28					1.6	1.6	.95	0			1.6	2.3
29					1.5	1.4	.95	0			1.9	94
30					---	2.0	1.1	0			.17	184
31		---			---	1.7	---	0	---		0	---
TOTAL	0	0	0	0	392.6	127.9	42.33	7.45	0	0	314.88	280.3
MEAN	0	0	0	0	13.5	4.13	1.41	.24	0	0	10.2	9.34
MAX	0	0	0	0	243	23	2.3	1.1	0	0	129	184
MIN	0	0	0	0	0	1.4	.75	0	0	0	0	0
AC-FT	0	0	0	0	779	254	84	15	0	0	625	556
CAL YR 1975	TOTAL	16561.22	MEAN	45.4	MAX	1190	MIN	0	AC-FT	32850		
WTR YR 1976	TOTAL	1165.46	MEAN	3.18	MAX	243	MIN	0	AC-FT	2310		

SANTA YNEZ RIVER BASIN

11129800 ZACA CREEK NEAR BUELLTON, CA

LOCATION.--Lat 34°38'55", long 120°11'00", in San Carlos de Jonata Grant, Santa Barbara County, on upstream end of left pier of bridge on frontage road, 0.9 mi (1.4 km) upstream from Dry Creek, 2.4 mi (3.9 km) north of Buellton, and 4.0 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--32.8 mi² (85.0 km²).

PERIOD OF RECORD.--September 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 471.54 ft (143.725 m) above mean sea level.

REMARKS.--Records poor. Some pumping from wells along stream for irrigation above station.

AVERAGE DISCHARGE.--13 years, 0.88 ft³/s (0.025 m³/s), 638 acre-ft/yr (787,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,390 ft³/s (39.4 m³/s) Feb. 24, 1969, gage height, 9.20 ft (2.804 m); no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 10 ft³/s (0.28 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Feb. 9	2345	33	0.93	2.83	0.862
Sept. 29	0045	*45	1.27	3.01	0.917

Minimum daily discharge, no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	.08						0
2					0	.65						0
3					0	.15						0
4					0	0						0
5					0	0						0
6					0	0						0
7					0	0						0
8					.08	0						0
9					1.9	0						0
10					7.2	0						.01
11					0	0						.01
12					0	0						0
13					0	0						0
14					0	0						0
15					0	0						0
16					0	0						0
17					0	0						0
18					0	0						0
19					0	0						0
20					0	0						0
21					0	0						0
22					0	0						0
23					0	0						0
24					0	0						0
25					0	0						0
26					0	0						0
27					0	0						0
28					0	0						.14
29					0	0						1.6
30					---	0						0
31		---			---	0	---		---			---
TOTAL	0	0	0	0	9.18	.88	0	0	0	0	0	1.76
MEAN	0	0	0	0	.32	.028	0	0	0	0	0	.059
MAX	0	0	0	0	7.2	.65	0	0	0	0	0	1.6
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	18	1.7	0	0	0	0	0	3.5
CAL YR 1975	TOTAL	59.04	MEAN	.16	MAX	8.0	MIN	0	AC-FT	117		
WTR YR 1976	TOTAL	11.82	MEAN	.032	MAX	7.2	MIN	0	AC-FT	23		

11131500 SANTA YNEZ RIVER AT COOPER'S REEF, NEAR LOMPOC, CA

LOCATION.--Lat 34°36'48", long 120°21'23", near boundary of Canada de Salsipuedes Grant, Santa Barbara County, on right bank 0.6 mi (1.0 km) upstream from Canada de la Vina, 6 mi (10 km) east of Lompoc, and 24 mi (39 km) downstream from Lake Cachuma.

DRAINAGE AREA.--708 mi² (1,830 km²).

PERIOD OF RECORD.--October 1954 to September 1976 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 160 ft (49 m), from topographic map. Prior to Sept. 18, 1969, at site 100 ft (30 m) downstream at datum about 0.6 ft (0.18 m) higher (reference marks destroyed by floods of 1969).

REMARKS.--Records fair. Flow regulated by Jameson Lake, Gibraltar Reservoir, and Lake Cachuma (stations 11121000, 11122000, 11125500). Water diverted out of basin from Jameson Lake, Gibraltar Reservoir, and Lake Cachuma to cities of Montecito, Santa Barbara, and Goleta for municipal supply. Water pumped from wells along banks of river for irrigation in valley upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81,000 ft³/s (2,290 m³/s), estimated, Jan. 25, 1969, gage height, 22.5 ft (6.86 m) site and datum then in use, from floodmark; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 661 ft³/s (18.7 m³/s) Feb. 10, gage height, 8.24 ft (2.512 m), from rating curve extended above 130 ft³/s (3.68 m³/s); no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.07	.35	.66	2.8	17	4.1	2.7	.02			
2	.04	.08	.35	.66	2.9	18	3.9	2.7	.02			
3	.04	.08	.35	.68	3.0	25	3.7	2.7	.01			
4	.03	.08	.38	.70	3.3	25	3.9	2.7	0			
5	.03	.10	.39	.71	3.9	21	4.6	2.6	0			
6	.03	.09	.40	.73	4.6	19	4.3	2.6	0			
7	.04	.09	.41	.76	6.2	16	4.6	2.6	0			
8	.03	.10	.41	.77	20	16	5.1	2.4	0			
9	.03	.11	.43	.79	44	16	5.6	2.4	0			
10	.04	.11	.44	.80	361	14	5.1	2.4	0			
11	.05	.10	.47	.82	149	14	4.8	2.4	0			
12	.04	.10	.54	.83	36	13	5.9	2.0	0			
13	.04	.10	.55	.83	25	12	7.3	1.6	0			
14	.04	.11	.54	.86	23	12	7.3	1.4	0			
15	.04	.12	.54	.90	20	12	7.3	1.2	0			
16	.03	.14	.54	.98	17	11	7.7	1.1	0			
17	.04	.14	.54	1.1	17	11	6.6	1.1	0			
18	.04	.14	.54	1.2	15	11	6.2	1.1	0			
19	.05	.15	.54	1.5	13	11	6.6	.95	0			
20	.05	.17	.54	1.6	15	9.0	6.6	.86	0			
21	.06	.20	.56	1.7	16	9.0	6.2	.77	0			
22	.06	.20	.58	1.8	14	9.0	5.9	.69	0			
23	.05	.21	.58	2.0	15	8.5	5.6	.58	0			
24	.05	.22	.58	2.2	17	8.5	5.1	.39	0			
25	.05	.23	.58	2.4	17	8.1	4.1	.27	0			
26	.06	.24	.61	2.8	16	6.9	4.3	.14	0			
27	.07	.35	.62	3.8	16	5.9	4.1	.08	0			
28	.06	.42	.62	3.6	16	5.3	3.5	.06	0			
29	.06	.37	.62	3.3	16	5.3	2.9	.05	0			
30	.08	.32	.64	3.3	---	4.3	2.6	.04	0			
31	.07	---	.66	3.0	---	4.1	---	.03	---			---
TOTAL	1.44	4.94	15.90	47.78	924.7	377.9	155.5	42.61	.05	0	0	0
MEAN	.047	.16	.51	1.54	31.9	12.2	5.18	1.37	.002	0	0	0
MAX	.08	.42	.66	3.8	361	25	7.7	2.7	.02	0	0	0
MIN	.03	.07	.35	.66	2.8	4.1	2.6	.03	0	0	0	0
AC-FT	2.9	9.8	32	95	1830	750	308	85	.10	0	0	0
CAL YR 1975	TOTAL	22229.84	MEAN	60.9	MAX	2560	MIN	0	AC-FT	44090		
WTR YR 1976	TOTAL	1570.82	MEAN	4.29	MAX	361	MIN	0	AC-FT	3120		

SANTA YNEZ RIVER BASIN

11132500 SALSIPUEDES CREEK NEAR LOMPOC, CA

LOCATION.--Lat 34°35'19", long 120°24'27", in W½ sec.24, T.6 N., R.34 W., Santa Barbara County, on right bank at bridge on Jalama Road, 0.4 mi (0.6 km) downstream from El Jaro Creek, and 4.4 mi (7.1 km) southeast of Lompoc.

DRAINAGE AREA.--47.1 mi² (122.0 km²).

PERIOD OF RECORD.--January 1941 to current year.

GAGE.--Water-stage recorder and concrete low-water control. Altitude of gage is 220 ft (67 m), from topographic map.

REMARKS.--Records good. No regulation above station. Small diversions for irrigation above station.

AVERAGE DISCHARGE.--35 years, 8.58 ft³/s (0.243 m³/s), 6,220 acre-ft/yr (7.67 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,400 ft³/s (323 m³/s) Mar. 15, 1952, gage height, 20.8 ft (6.34 m); no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 435 ft³/s (12.3 m³/s) Feb. 10 (0600 hrs), gage height, 3.23 ft (0.985 m), no peak above base of 700 ft³/s (19.8 m³/s) revised; minimum daily, 0.05 ft³/s (0.001 m³/s) July 5-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	1.6	1.3	2.2	1.9	8.8	2.2	1.7	.72	.10	.34	.19
2	2.2	1.6	1.3	1.9	1.9	11	2.4	1.6	.61	.08	.28	.19
3	2.2	1.6	1.3	1.9	1.9	15	2.3	1.6	.59	.07	.26	.19
4	1.9	1.3	1.3	2.2	2.2	6.0	2.4	1.6	.60	.08	.26	.26
5	1.6	1.6	1.6	2.2	2.6	4.4	2.9	1.6	.60	.05	.26	.26
6	1.9	1.6	1.6	2.2	2.6	3.8	2.5	1.7	.60	.05	.26	.19
7	2.6	1.6	1.6	1.9	3.8	3.4	2.2	1.9	.61	.05	.19	.19
8	2.6	1.3	1.1	1.6	27	3.4	3.4	1.8	.63	.05	.19	.19
9	2.6	1.6	1.1	2.2	46	3.4	3.1	1.6	.69	.05	.19	.14
10	3.0	1.6	1.1	2.6	124	3.2	2.5	1.6	.68	.07	.19	.34
11	3.4	1.3	1.3	3.0	8.6	2.7	2.8	1.6	.75	.07	.19	2.6
12	1.6	1.3	1.6	2.2	5.2	2.6	3.5	1.5	.64	.08	.19	1.1
13	1.3	1.3	1.6	2.2	4.1	2.5	3.7	1.2	.51	.10	.19	.34
14	1.3	1.6	1.6	2.2	4.2	2.5	2.6	1.1	.48	.16	.19	.34
15	1.1	1.6	1.6	1.9	3.6	2.6	2.4	1.1	.39	.20	.19	.26
16	1.1	1.9	1.6	1.9	3.1	2.4	2.3	1.2	.36	.31	.17	.26
17	1.1	1.6	1.9	1.6	3.0	2.4	2.2	1.4	.36	.36	.14	.26
18	1.3	1.6	1.6	1.6	2.8	2.4	1.9	1.3	.36	.38	.14	.26
19	1.3	1.6	1.9	1.6	2.9	2.3	2.0	1.2	.35	.38	.20	.26
20	1.3	1.6	1.9	1.6	2.8	2.2	2.0	1.2	.32	.36	.18	.26
21	1.3	1.6	1.9	1.6	3.0	2.2	2.0	1.3	.28	.30	.29	.26
22	1.6	1.6	1.9	1.6	2.8	2.2	2.1	1.2	.27	.26	.21	.26
23	1.6	1.3	1.9	1.8	2.8	2.2	2.2	1.2	.25	.32	.18	.34
24	1.3	1.3	1.9	2.0	3.1	2.2	1.9	1.0	.25	.30	.19	.33
25	1.3	1.3	2.1	2.2	3.0	2.1	1.8	1.0	.26	.20	.19	.43
26	1.6	1.3	2.2	2.2	2.6	2.1	1.5	1.0	.17	.10	.19	.69
27	1.9	1.7	2.2	2.2	2.6	2.2	1.5	.96	.14	.12	.19	1.1
28	1.5	2.2	2.2	2.2	2.4	2.1	1.6	.98	.13	.19	.19	2.6
29	1.6	1.9	2.2	2.2	2.6	2.1	1.7	.94	.08	.19	.19	6.7
30	1.9	1.3	2.6	2.2	---	2.1	1.7	.90	.09	.22	.19	1.6
31	2.0	---	2.2	2.2	---	2.2	---	.81	---	.30	.19	---
TOTAL	55.6	46.3	53.2	63.1	279.1	110.7	69.3	40.79	12.77	5.55	6.40	22.39
MEAN	1.79	1.54	1.72	2.04	9.62	3.57	2.31	1.32	.43	.18	.21	.75
MAX	3.4	2.2	2.6	3.0	124	15	3.7	1.9	.75	.38	.34	6.7
MIN	1.1	1.3	1.1	1.6	1.9	2.1	1.5	.81	.08	.05	.14	.14
AC-FT	110	92	106	125	554	220	137	81	25	11	13	44
CAL YR 1975 TOTAL	6228.30		MEAN 17.1	MAX 1540	MIN 1.1	AC-FT 12350						
WTR YR 1976 TOTAL	765.20		MEAN 2.09	MAX 124	MIN .05	AC-FT 1520						

SANTA YNEZ RIVER BASIN

599

11133000 SANTA YNEZ RIVER AT NARROWS, NEAR LOMPOC, CA

LOCATION.--Lat 34°38'16", long 120°25'32", in Canada de Salsipuedes Grant, Santa Barbara County, on left bank 0.5 mi (0.8 km) upstream from State Highway 246, 1.9 mi (3.1 km) east of Lompoc, 1.9 mi (3.1 km) downstream from Salsipuedes Creek, and 12.5 mi (20.1 km) downstream from Lake Cachuma.

DRAINAGE AREA.--789 mi² (2,040 km²).

PERIOD OF RECORD.--May 1947 to November 1951 (irrigation seasons only). May 1952 to September 1963, October 1964 to current year. Records equivalent, excepting low-flow periods, to those published as "near Lompoc" (station 11133500), November to December 1906, October 1907 to September 1918, May 1925 to September 1960.

GAGE.--Two water-stage recorders. Altitude of main gage is 90 ft (27 m), from topographic map. See WSP 1715 for history of changes prior to Oct. 1, 1961. Since Oct. 1, 1961, at various sites and datums within 0.1 mi (0.2 km) of present site. Supplementary gage, used for high-water periods, at site 0.5 mi (0.8 km) downstream at datum 79.25 ft (24.155 m) above mean sea level.

REMARKS.--Records good. Flow regulated by Jameson Lake, Gibraltar Reservoir, and since November 1952 by Lake Cachuma (stations 11121000, 11122000, 11125500). Water diverted out of Jameson Lake, Gibraltar Reservoir, and Lake Cachuma to cities of Montecito, Santa Barbara, and Goleta for municipal supply. Water pumped from wells along banks of river for irrigation in valley upstream.

EXTREMES FOR PERIOD OF RECORD,(1952-63 AND SINCE 1964).--Maximum discharge, 80,000 ft³/s (2,270 m³/s) Jan. 25, 1969, gage height, 24.20 ft (7.376 m), from supplementary gage; no flow at times in each year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 9, 1907, 120,000 ft³/s (3,400 m³/s), gage height, 22.0 ft (6.71 m) site and datum then in use, from mean-depth study.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 630 ft³/s (17.8 m³/s) Feb. 10, gage height, 8.10 ft (2.469 m); no flow June 8 to September 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.60	.95	1.5	1.8	2.2	21	4.2	.92	.31			
2	.67	1.2	1.5	1.8	2.3	22	3.4	.81	.29			
3	.65	1.1	1.5	1.7	2.3	42	2.7	.73	.26			
4	.57	1.0	1.5	1.8	2.3	32	2.8	.73	.20			
5	.61	1.1	1.5	1.8	2.3	27	3.0	.77	.08			
6	.64	1.0	1.5	1.8	2.5	23	2.6	.90	.14			
7	.67	.90	1.5	1.8	3.7	21	2.1	.88	.11			
8	.61	.97	1.5	1.9	20	20	2.8	1.1	0			
9	.59	.97	1.5	2.4	53	19	3.7	1.2	0			
10	.69	.98	1.6	1.9	390	18	4.1	.93	0			
11	.85	.95	1.7	2.0	231	17	4.5	.88	0			
12	.85	.85	1.7	2.0	94	16	4.6	.70	0			
13	.85	.76	1.8	2.0	61	15	7.3	.59	0			
14	.79	.85	1.8	2.0	48	14	7.3	.51	0			
15	.71	.95	1.7	2.0	40	14	7.0	.48	0			
16	.70	1.0	1.8	2.0	33	13	6.6	.47	0			
17	.71	1.1	1.8	1.9	29	12	5.0	.45	0			
18	.88	.95	1.8	2.0	26	11	4.2	.46	0			
19	.85	.95	1.8	2.0	24	10	3.9	.49	0			
20	.95	.95	1.8	2.0	21	9.9	3.7	.52	0			
21	.95	1.2	1.8	2.1	21	9.4	3.4	.50	0			
22	.95	1.1	2.0	2.1	19	9.4	3.4	.44	0			
23	.91	1.2	2.0	2.1	18	9.4	3.4	.46	0			
24	.85	1.2	1.8	2.1	18	9.0	3.4	.44	0			
25	.76	1.3	1.8	2.2	17	8.3	3.1	.39	0			
26	.84	1.3	1.8	2.2	14	8.1	2.5	.36	0			
27	.95	1.4	1.9	2.2	14	8.1	1.8	.37	0			
28	.83	1.5	2.1	2.2	14	8.1	1.4	.35	0			
29	.85	1.5	2.0	2.2	14	7.3	1.1	.33	0			
30	.96	1.5	2.0	2.2	---	5.9	.96	.31	0			
31	.94	---	2.0	2.2	---	5.0	---	.32	---			---
TOTAL	24.23	32.68	54.0	62.4	1236.6	464.9	109.96	18.79	1.39	0	0	0
MEAN	.78	1.09	1.74	2.01	42.6	15.0	3.67	.61	.046	0	0	0
MAX	.96	1.5	2.1	2.4	390	42	7.3	1.2	.31	0	0	0
MIN	.57	.76	1.5	1.7	2.2	5.0	.96	.31	0	0	0	0
AC-FT	48	65	107	124	2450	922	218	37	2.8	0	0	0
CAL YR 1975 TOTAL	30012.41		MEAN 82.2	MAX 3440	MIN 0	AC-FT 59530						
WTR YR 1976 TOTAL	2004.95		MEAN 5.48	MAX 390	MIN 0	AC-FT 3980						

11134800 MIGUELITO CREEK AT LOMPOC, CA

LOCATION.--Lat 34°37'57", long 120°27'51", in Lompoc Grant, Santa Barbara County, on right bank at upstream end of debris dam, and 1,500 ft (457 m) south of Lompoc Union High School.

DRAINAGE AREA.--11.6 mi² (30.0 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 97.94 ft (29.852 m) above mean sea level (Santa Barbara County bench mark).

REMARKS.--Records fair. No regulation or diversion above station; some pumping from wells along stream for irrigation.

AVERAGE DISCHARGE.--6 years, 1.12 ft³/s (0.032 m³/s), 811 acre-ft/yr (1.00 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 501 ft³/s (14.2 m³/s) Feb. 2, 1975, gage height, 5.34 ft (1.628 m), from rating curve extended above 144 ft³/s (4.08 m³/s) on basis of slope-area measurement at gage height 5.02 ft (1.530 m); no flow many days in some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 25, 1969, reached a stage of 5.83 ft (1.777 m), from floodmark, discharge, 680 ft³/s (19.3 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 144 ft³/s (4.08 m³/s) Feb. 9 (2130 hrs), gage height, 2.92 ft (0.890 m), no other peak above base of 100 ft³/s (2.82 m³/s); minimum daily, 0.05 ft³/s (0.001 m³/s) several days from July to September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.56	.17	.41	.32	.26	2.8	.16	.26	.16	.09	.07	.05
2	.46	.18	.41	.33	.26	4.1	.19	.26	.16	.08	.08	.05
3	.35	.26	.26	.46	.26	2.0	.16	.26	.16	.08	.08	.08
4	.26	.16	.26	.44	.26	.83	.16	.26	.16	.08	.08	.08
5	.41	.16	.26	.39	1.1	.60	.17	.20	.26	.08	.08	.08
6	.41	.16	.26	.26	4.2	.60	.15	.26	.26	.08	.08	.05
7	.41	.16	.26	.26	1.1	.41	.15	.25	.26	.08	.08	.05
8	.26	.16	.26	.26	22	.41	.95	.22	.26	.08	.08	.05
9	.26	.26	.26	.26	23	.41	.24	.26	.26	.08	.07	.05
10	.41	.26	.26	.41	14	.41	.25	.26	.16	.08	.08	1.3
11	.83	.26	.26	.41	.83	.41	.15	.26	.08	.08	.08	4.3
12	.41	.26	.44	.41	.60	.41	.59	.16	.08	.84	.08	.08
13	.41	.26	.26	.41	.26	.26	.22	.16	.08	1.3	.08	.08
14	.41	.16	.26	.26	.60	.41	.14	.16	.08	.08	.08	.08
15	.41	.26	.26	.26	.26	.41	.22	.16	.08	.05	.08	.08
16	.41	.26	.41	.26	.26	.26	.16	.16	.08	.05	.08	.08
17	.41	.41	.26	.16	.26	.26	.16	.26	.08	.05	.08	.08
18	.41	.26	.26	.26	.26	.26	.26	.26	.08	.05	.08	.08
19	.41	.26	.26	.26	.26	.26	.26	.26	.08	.05	.83	.08
20	.41	.26	.26	.26	.26	.26	.26	.26	.09	.05	.05	.08
21	.41	.26	.26	.28	.26	.26	.16	.26	.09	.05	.05	.08
22	.41	.32	.26	.39	.26	.26	.16	.26	.09	.05	.08	.08
23	.26	.35	.26	.33	.22	.26	.15	.26	.11	.05	.08	.08
24	.26	.37	.26	.26	.26	.26	.12	.26	.09	.05	.08	.05
25	.41	.34	.26	.26	.26	.26	.11	.20	.10	.06	.08	.08
26	.64	.33	.26	.26	.26	.21	.14	.25	.13	.08	.05	.08
27	.22	.41	.26	.28	.25	.20	.13	.23	.14	.08	.05	.08
28	.18	1.1	.27	.26	.40	.28	.16	.12	.10	.07	.05	12
29	.19	.41	.25	.24	.41	.29	.30	.13	.09	.10	.05	7.9
30	.40	.41	.23	.25	---	.24	.31	.19	.09	.08	.08	.05
31	.17	---	.26	.25	---	.17	---	.16	---	.07	.05	---
TOTAL	11.86	8.88	8.66	9.40	72.87	18.46	6.74	6.91	3.94	4.15	3.00	27.34
MEAN	.38	.30	.28	.30	2.51	.60	.22	.22	.13	.13	.097	.91
MAX	.83	1.1	.44	.46	.23	4.1	.95	.26	.26	1.3	.83	12
MIN	.17	.16	.23	.16	.22	.17	.11	.12	.08	.05	.05	.05
AC-FT	24	18	17	19	145	37	13	14	7.8	8.2	6.0	54
CAL YR 1975	TOTAL	744.43	MEAN	2.04	MAX	95	MIN	.15	AC-FT	1480		
WTR YR 1976	TOTAL	182.21	MEAN	.50	MAX	23	MIN	.05	AC-FT	361		

11135000 SANTA YNEZ RIVER AT PINE CANYON, NEAR LOMPOC, CA

LOCATION.--Lat 34°40'20", long 120°29'30", in Lompoc Grant, Santa Barbara County, on right bank at Floradale Avenue bridge, 2.1 mi (3.4 km) upstream from Santa Lucia Creek, 3 mi (5 km) northwest of Lompoc, and 7 mi (11 km) upstream from mouth at Pacific Ocean.

DRAINAGE AREA.--844 mi² (2,186 km²).

PERIOD OF RECORD.--May 1941 to October 1946, August 1964 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 40.78 ft (12.430 m) above mean sea level. Prior to Aug. 24, 1964, at different datum. Aug. 24, 1964, to Aug. 20, 1970, at datum 0.91 ft (0.277 m) lower.

REMARKS.--Records fair. Flow regulated by Jameson Lake, Gibraltar Reservoir, and Lake Cachuma (stations 11121000, 11122000, 11125500). Water diverted out of basin from Jameson Lake, Gibraltar Reservoir, and Lake Cachuma to cities of Montecito, Santa Barbara, and Goleta for municipal supply. Water pumped from wells along bank for irrigation in valley upstream. Effluent from city of Lompoc contributes to low flow most months.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 78,000 ft³/s (2,210 m³/s), estimated, Jan. 25, 1969, gage height, 24.91 ft (7.593 m), present datum, from floodmark; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 670 ft³/s (19.0 m³/s) Feb. 10, gage height, 7.87 ft (2.399 m), from rating curve extended above 220 ft³/s (6.23 m³/s); minimum daily, 1.1 ft³/s (0.031 m³/s) Aug. 2-17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.4	1.5	1.6	1.7	7.0	2.0	1.6	1.6	1.5	1.2	1.4
2	1.7	1.4	1.6	1.6	1.7	12	2.0	1.6	1.6	1.5	1.1	1.4
3	1.7	1.4	1.4	1.6	1.8	8.7	2.0	1.6	1.6	1.5	1.1	1.4
4	1.6	1.4	1.4	1.6	1.7	8.3	2.0	1.6	1.6	1.4	1.1	1.5
5	1.6	1.4	1.5	1.6	1.9	5.2	1.8	1.6	1.6	1.2	1.1	1.5
6	1.7	1.5	1.6	1.6	2.0	3.0	1.9	1.6	1.6	1.2	1.1	1.4
7	1.7	1.5	1.6	1.6	2.0	2.3	1.8	1.6	1.6	1.2	1.1	1.4
8	1.7	1.4	1.6	1.6	4.8	2.2	4.9	1.6	1.6	1.2	1.1	1.4
9	1.6	1.4	1.6	1.6	5.9	2.3	2.1	1.6	1.6	1.2	1.1	1.4
10	1.7	1.4	1.6	1.6	22.9	2.2	1.9	1.6	1.6	1.2	1.1	9.0
11	1.7	1.4	1.6	1.6	21.9	2.1	2.3	1.6	1.6	1.2	1.1	4.5
12	1.6	1.4	1.6	1.6	3.7	2.1	5.5	1.6	1.6	1.2	1.1	1.4
13	1.7	1.4	1.7	1.6	1.5	2.0	6.0	1.6	1.6	1.2	1.1	1.4
14	1.7	1.4	1.6	1.6	1.0	1.9	2.2	1.6	1.6	1.2	1.1	1.4
15	1.7	1.4	1.7	1.6	4.4	1.9	1.9	1.6	1.6	1.2	1.1	1.4
16	1.6	1.3	1.7	1.6	1.7	1.9	1.8	1.6	1.6	1.2	1.1	1.4
17	1.6	1.4	1.4	1.5	2.1	1.6	1.7	1.6	1.6	1.2	1.1	1.4
18	1.6	1.4	1.4	1.6	1.7	1.9	1.7	1.6	1.6	1.2	1.3	1.4
19	1.6	1.5	1.4	1.6	1.7	2.0	1.6	1.6	1.6	1.2	1.4	1.4
20	1.7	1.5	1.4	1.6	1.5	1.9	1.6	1.6	1.6	1.3	1.4	1.4
21	1.6	1.5	1.4	1.6	1.5	1.8	1.7	1.6	1.6	1.2	1.4	1.4
22	1.7	1.5	1.4	1.6	1.5	1.9	1.7	1.6	1.6	1.2	1.4	1.4
23	1.6	1.5	1.5	1.6	3.4	2.1	1.7	1.6	1.6	1.2	1.4	1.4
24	1.7	1.6	1.5	1.6	1.7	2.0	1.6	1.6	1.6	1.2	1.5	1.4
25	1.6	1.6	1.5	1.6	1.6	2.0	1.6	1.6	1.6	1.2	1.4	1.4
26	1.6	1.6	1.4	1.7	1.5	1.9	1.8	1.6	1.6	1.2	1.4	1.4
27	1.6	1.5	1.6	1.6	1.5	1.8	1.8	1.6	1.6	1.2	1.4	1.4
28	1.5	1.5	1.6	1.7	1.4	2.4	1.7	1.7	1.5	1.2	1.4	1.4
29	1.4	1.5	1.6	1.6	1.4	3.6	1.6	1.6	1.5	1.2	1.4	8.1
30	1.4	1.5	1.7	1.7	---	2.0	1.6	1.6	1.4	1.2	1.4	1.9
31	1.4	---	1.7	1.7	---	2.0	---	1.6	---	1.2	1.4	---
TOTAL	50.2	43.6	47.8	49.9	65.4	96.0	65.5	49.7	47.6	38.4	38.4	60.1
MEAN	1.62	1.45	1.54	1.61	22.7	3.10	2.18	1.60	1.59	1.24	1.24	2.00
MAX	1.7	1.6	1.7	1.7	22.9	12	6.0	1.7	1.6	1.5	1.5	9.0
MIN	1.4	1.3	1.4	1.5	1.4	1.6	1.6	1.6	1.4	1.2	1.1	1.4
AC-FT	100	86	95	99	1310	190	130	99	94	76	76	119

CAL YR 1975 TOTAL 28817.75 MEAN 79.0 MAX 3500 MIN .07 AC-FT 57160
WTR YR 1976 TOTAL 1245.60 MEAN 3.40 MAX 229 MIN 1.1 AC-FT 2470

SAN ANTONIO CREEK BASIN

11135800 SAN ANTONIO CREEK AT LOS ALAMOS, CA

LOCATION.--Lat 34°44'36", long 120°16'12", in Los Alamos Grant, Santa Barbara County, on left bank 100 ft (30 m) upstream from bridge on northbound lane of Highway 101 at Los Alamos.

DRAINAGE AREA.--34.9 mi² (90.4 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 580 ft (177 m), from topographic map.

REMARKS.--Records fair. No regulation above station. Pumping for irrigation of about 1,000 acres (4.05 km²) above station.

AVERAGE DISCHARGE.--6 years, 0.28 ft³/s (0.008 m³/s), 203 acre-ft/yr (250,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 233 ft³/s (6.60 m³/s) Jan. 18, 1973, gage height, 3.60 ft (1.097 m), from rating curve extended above 3.0 ft³/s (0.085 m³/s) on basis of slope-area measurements at gage heights, 2.16 ft (0.658 m) and 3.60 ft (1.097 m); no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21 ft³/s (0.59 m³/s) Feb. 10, gage height, 1.87 ft (0.570 m), no peak above base of 30 ft³/s (0.85 m³/s); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	.37	0					0
2					0	.49	0					0
3					0	.82	0					0
4					0	.78	0					0
5					0	.37	0					0
6					.37	.37	0					0
7					.94	.28	0					0
8					3.2	.37	.08					0
9					3.8	.28	.06					0
10					6.8	.28	0					0
11					.37	.15	0					0
12					.14	.10	.01					0
13					.14	.06	.19					0
14					.14	.02	.03					0
15					.14	.02	0					0
16					.10	.15	0					0
17					.06	.02	0					0
18					.14	.06	0					0
19					.14	.02	0					0
20					.04	.02	0					0
21					.03	0	0					0
22					.02	0	0					0
23					.03	0	0					0
24					.02	0	0					0
25					.08	0	0					0
26					.06	0	0					0
27					.06	0	0					0
28					.09	0	0					.02
29					.04	0	0					.02
30					---	0	---					0
31		---			---	0	---		---			---
TOTAL	0	0	0	0	16.95	5.03	.37	0	0	0	0	.04
MEAN	0	0	0	0	.58	.16	.012	0	0	0	0	.001
MAX	0	0	0	0	6.8	.82	.19	0	0	0	0	.02
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	34	10.0	.7	0	0	0	0	.08
CAL YR 1975	TOTAL	120.19	MEAN	.33	MAX	15	MIN	0	AC-FT	238		
WTR YR 1976	TOTAL	22.39	MEAN	.061	MAX	6.8	MIN	0	AC-FT	44		

SAN ANTONIO CREEK BASIN

603

11136100 SAN ANTONIO CREEK NEAR CASMALIA, CA

LOCATION.--Lat 34°46'56", long 120°31'47", in Jesus Maria Grant, Santa Barbara County, on Vandenberg Military Reservation on downstream side of center pile bent of San Antonio Road bridge, 0.7 mi (1.1 km) east of junction of San Antonio Road and Lompoc-Casmalia Road, and 3.8 mi (6.1 km) south of Casmalia.

DRAINAGE AREA.--135 mi² (350 km²).

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Concrete control since August 1970. Altitude of gage is 160 ft (49 m), from topographic map. Prior to June 27, 1958, at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records good. No regulation above station. Flow affected by pumping from wells along stream for irrigation above station.

AVERAGE DISCHARGE.--21 years, 5.11 ft³/s (0.145 m³/s), 3,700 acre-ft/yr (4.56 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,300 ft³/s (65.1 m³/s) Feb. 25, 1969, gage height, 11.79 ft (3.594 m); minimum daily, 0.10 ft³/s (0.003 m³/s) June 19, 20, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 187 ft³/s (5.30 m³/s) Feb. 10 (0945 hrs), gage height, 6.34 ft (1.932 m), no other peak above base of 100 ft³/s (2.83 m³/s); minimum daily, 0.23 ft³/s (0.007 m³/s) July 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.58	.52	.71	.94	1.2	11	1.1	.96	.54	.28	.33	.31
2	.55	.52	.70	.87	1.2	12	1.1	.96	.51	.27	.32	.31
3	.52	.52	.71	.90	1.2	21	1.1	.87	.50	.29	.32	.33
4	.49	.52	.76	.96	1.2	6.1	1.2	.96	.52	.31	.31	.94
5	.47	.54	.77	.97	1.8	3.7	1.3	.87	.51	.31	.34	.74
6	.51	.58	.77	.97	2.4	2.7	1.3	.96	.49	.30	.34	.52
7	.55	.51	.76	1.0	2.7	2.4	1.2	1.0	.49	.40	.30	.51
8	.51	.47	.74	1.1	13	2.2	1.9	1.0	.50	.34	.31	.47
9	.50	.46	.73	1.1	14	2.1	2.3	1.0	.49	.35	.32	.47
10	.52	.46	.75	1.1	77	2.0	1.8	.96	.52	.33	.33	.67
11	.92	.44	.80	1.1	11	2.0	1.6	.87	.50	.33	.35	1.1
12	.59	.44	.88	1.1	4.1	1.9	2.8	.79	.49	.33	.34	.55
13	.55	.46	1.0	1.1	2.9	1.8	12	.82	.49	.34	.36	.50
14	.52	.46	.99	1.1	2.5	1.8	4.8	.75	.47	.36	.36	.43
15	.50	.46	.89	1.1	2.3	1.9	3.1	.77	.42	.35	.39	.39
16	.51	.49	.87	1.1	2.1	1.8	2.5	.75	.40	.36	.41	.37
17	.51	.52	.87	1.1	2.0	1.8	2.0	.80	.43	.35	.38	.36
18	.52	.47	.87	1.1	1.8	1.8	1.8	.75	.42	.33	.38	.36
19	.53	.49	.87	1.2	1.8	1.7	1.7	.73	.41	.32	.63	.38
20	.51	.51	.87	1.1	1.8	1.6	1.5	.73	.40	.33	.62	.40
21	.53	.53	.87	1.2	1.7	1.5	1.5	.72	.42	.31	.48	.41
22	.54	.53	.88	1.2	1.7	1.5	1.4	.71	.38	.31	.40	.40
23	.47	.55	.86	1.2	1.7	1.5	1.4	.69	.38	.31	.35	.40
24	.46	.53	.84	1.2	1.7	1.5	1.3	.67	.36	.31	.36	.40
25	.46	.53	.88	1.2	1.8	1.4	1.2	.66	.32	.30	.37	.40
26	.47	.50	.88	1.2	1.8	1.3	1.1	.67	.29	.32	.34	.40
27	.52	.61	.90	1.2	1.8	1.3	1.0	.61	.26	.30	.30	.41
28	.46	.84	.88	1.2	1.7	1.2	1.0	.63	.25	.43	.30	.52
29	.46	.94	.88	1.2	1.7	1.2	.96	.61	.26	.23	.31	2.5
30	.57	.77	.88	1.2	---	1.2	.96	.58	.27	.32	.31	1.6
31	.55	---	.95	1.1	---	1.1	---	.57	---	.33	.31	---
TOTAL	16.35	16.17	26.01	34.11	163.6	98.0	59.92	24.42	12.69	10.05	11.27	17.55
MEAN	.53	.54	.84	1.10	5.64	3.16	2.00	.79	.42	.32	.36	.59
MAX	.92	.94	1.0	1.2	77	21	12	1.0	.54	.43	.63	2.5
MIN	.46	.44	.70	.87	1.2	1.1	.96	.57	.25	.23	.30	.31
AC-FT	32	32	52	68	325	194	119	48	25	20	22	35

CAL YR 1975 TOTAL 1072.81 MEAN 2.94 MAX 125 MIN .32 AC-FT 2130
WTR YR 1976 TOTAL 490.14 MEAN 1.34 MAX 77 MIN .23 AC-FT 972

SANTA MARIA RIVER BASIN

11136400 WAGON ROAD CREEK NEAR STAUFFER, CA

LOCATION.--Lat 34°42'32", long 119°12'25", in SE¼SE¼SE¼ sec.9, T.7 N., R.22 W., Ventura County, on left bank 50 ft (15 m) downstream from Park Canyon Creek, 9.3 mi (15.0 km) southwest of Stauffer, and 10 mi (16 km) east of Ozena Guard Station.

DRAINAGE AREA.--17.9 mi² (46.4 km²).

PERIOD OF RECORD.--July 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,500 ft (1,372 m), from topographic map.

REMARKS.--Records poor. No diversion or regulation above station.

COOPERATION.--Seventeen discharge measurements were furnished by Ventura County Flood Control District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 860 ft³/s (24.4 m³/s) Dec. 4, 1974, from rating curve extended above 80 ft³/s (2.27 m³/s) on basis of slope-area measurement at gage height 4.76 ft (1.451 m), and Sept. 10, 1976, on basis of slope-area measurement of peak flow; maximum gage height, 5.88 ft (1.792 m) Sept. 10, 1976, from floodmarks; no flow many days in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 50 ft³/s (1.42 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)	
Feb. 8	0030	374	10.6	4.02	1.225	Sept. 29	0745	270	7.65	4.37	1.332
Sept. 10	Unknown	*860	24.4	5.88	1.792						

Minimum daily discharge, no flow many days during October, July through September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.01	.01	.04	.01	1.2	.08	.13	.04	.01	0	0
2	0	.01	.01	.02	.01	.68	.07	.12	.04	.01	0	4.0
3	0	.01	.01	.03	.01	1.0	.15	.12	.04	.01	0	0
4	0	.01	.01	.02	.02	1.5	.20	.11	.04	.01	0	0
5	0	.01	.01	.03	.02	1.0	.94	.09	.04	.01	0	0
6	0	.02	.01	.01	.06	.83	.20	.07	.04	.01	0	.27
7	0	.02	.01	.01	.28	.68	.10	.15	.05	0	.01	0
8	0	.02	.01	.01	153	.43	1.1	.11	.04	0	.01	0
9	0	.02	.01	.01	142	.34	.55	.15	.05	0	.01	0
10	0	.02	.01	.01	39	.55	.11	.15	.07	.01	0	36
11	.01	.02	.01	.01	14	.68	.06	.15	.05	.01	0	1.0
12	.01	.02	.02	.01	5.2	.43	.05	.15	.06	0	0	.01
13	0	.02	.01	.01	1.9	.43	1.0	.15	.05	0	0	.01
14	.01	.03	.01	.02	3.2	.11	3.0	.15	.05	0	0	.01
15	.01	.03	.02	.02	2.8	.15	1.6	.15	.04	0	0	0
16	.01	.03	.01	.02	.83	.20	3.6	.15	.04	0	0	0
17	.01	.03	.01	.02	1.2	.15	.68	.11	.04	0	0	0
18	.01	.01	.01	.02	1.7	.16	.20	.08	.04	0	0	0
19	.01	.01	.01	.02	1.5	.15	.15	.08	.03	0	0	0
20	.01	.01	.01	.02	1.3	.08	.11	.08	.03	0	0	0
21	.01	.01	.01	.02	1.2	.11	.09	.08	.02	0	0	0
22	.01	.01	.01	.02	1.1	.11	.09	.10	.02	0	0	0
23	.01	.01	.01	.01	.95	.11	.08	.09	.02	0	0	0
24	0	.01	.01	.01	.86	.15	.07	.09	.03	0	0	0
25	0	.01	.01	.02	.80	.20	.09	.09	.03	0	0	0
26	0	.01	.01	.02	.73	.16	.09	.07	.03	0	0	0
27	.01	.01	.01	.01	.55	.20	.07	.07	.02	0	0	0
28	0	.01	.01	.01	.34	.13	.10	.07	.01	0	0	.01
29	0	.01	.01	.01	.34	.11	.12	.06	.02	0	0	21
30	.01	.02	.01	.01	---	.11	.27	.06	.02	0	0	.03
31	.01	---	.01	.01	---	.11	---	.04	---	0	0	---
TOTAL	.15	.47	.33	.51	402.63	12.25	15.02	3.27	1.10	.08	.03	62.34
MEAN	.005	.016	.011	.017	13.9	.40	.50	.11	.037	.003	.001	2.08
MAX	.01	.03	.02	.04	153	1.5	3.6	.15	.07	.01	.01	36
MIN	0	.01	.01	.01	.01	.08	.05	.04	.01	0	0	0
AC-FT	.3	.9	.7	1.0	799	24	30	6.5	2.2	.2	.06	124

CAL YR 1975 TOTAL 409.70 MEAN 1.12 MAX 87 MIN 0 AC-FT 813
WTR YR 1976 TOTAL 498.18 MEAN 1.36 MAX 153 MIN 0 AC-FT 988

SANTA MARIA RIVER BASIN

605

11136480 REYES CREEK NEAR VENTUCOPA, CA

LOCATION.--Lat 34°41'39", long 119°19'02", in SW¼NE¼SE¼ sec.21, T.7 N., R.23 W., Ventura County, on left bank 800 ft (244 m) from Lockwood Ozena Road, 1,900 ft (579 m) upstream from mouth, 3 mi (5 km) east of Ozena Guard Station, and 13 mi (21 km) southeast of Ventucopa.

DRAINAGE AREA.--4.62 mi² (11.97 km²).

PERIOD OF RECORD.--July 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,690 ft (1,120 m), from topographic map.

REMARKS.--Records fair. Small diversion upstream for domestic use.

COOPERATION.--Twelve discharge measurements were furnished by Ventura County Flood Control District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 138 ft³/s (3.91 m³/s) Feb. 11, 1973, gage height, 3.20 ft (0.975 m); no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 42 ft³/s (1.19 m³/s) Feb. 9 (0430 hrs), gage height, 2.42 ft (0.738 m), no other peaks above base of 20 ft³/s (0.57 m³/s); no flow Aug. 28 to Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.14	.71	.76	.87	.81	3.8	1.7	2.0	.98	.31	.02	0
2	.16	.66	.76	.92	.81	3.7	1.7	2.0	.92	.31	.02	0
3	.16	.66	.76	1.0	.81	2.9	1.9	2.0	.92	.28	.03	0
4	.14	.61	.76	1.0	.81	2.5	1.9	2.0	.92	.25	.05	0
5	.16	.56	.76	.92	.92	2.3	1.8	1.9	.92	.23	.05	0
6	.18	.52	.71	.92	1.0	2.1	1.8	1.9	.92	.16	.05	.06
7	.28	.56	.71	.92	2.3	2.1	1.8	1.8	.92	.16	.05	.48
8	.41	.52	.71	.87	16	2.1	1.8	1.8	.92	.16	.04	.20
9	.41	.56	.71	.87	26	2.0	1.7	1.8	.92	.15	.04	.16
10	.37	.56	.71	.87	11	2.0	1.6	1.8	.92	.14	.03	2.4
11	.56	.56	.71	.87	6.0	2.1	1.7	1.7	.92	.12	.02	4.2
12	.71	.56	.71	.87	4.4	2.0	1.7	1.7	.87	.14	.02	.92
13	.66	.61	.81	.87	3.5	2.0	1.8	1.7	.87	.12	.01	.56
14	.66	.61	.76	.87	3.4	2.0	1.8	1.8	.81	.12	.01	.41
15	.52	.61	.76	.87	3.4	2.0	1.8	1.9	.81	.14	.03	.37
16	.44	.61	.76	.87	3.1	2.2	1.7	1.8	.81	.12	.04	.37
17	.44	.66	.76	.87	3.0	2.7	1.8	1.6	.76	.12	.05	.37
18	.48	.71	.76	.87	2.9	2.8	1.8	1.5	.76	.10	.06	.34
19	.52	.71	.76	.92	2.8	2.8	1.8	1.3	.66	.10	.08	.31
20	.48	.76	.76	.87	2.8	2.7	1.9	1.2	.66	.09	.06	.31
21	.44	.76	.76	.87	2.7	2.3	1.9	1.2	.56	.08	.04	.34
22	.48	.76	.76	.87	2.5	2.2	1.9	1.2	.56	.08	.03	.34
23	.56	.76	.76	.87	2.4	2.1	1.9	1.2	.56	.10	.03	.28
24	.61	.76	.76	.87	2.3	1.9	1.9	1.2	.52	.06	.02	.31
25	.66	.76	.76	.87	2.3	2.0	1.9	1.2	.41	.04	.02	.34
26	.61	.76	.81	.87	2.3	2.0	2.0	1.1	.37	.04	.01	.34
27	.61	.71	.81	.87	2.2	1.9	2.0	1.1	.32	.04	.01	.34
28	.66	.71	.81	.87	2.2	1.9	2.0	1.1	.29	.02	0	.41
29	.61	.71	.81	.87	2.3	1.8	2.0	1.1	.25	.02	0	5.6
30	.66	.71	.81	.87	---	1.8	2.0	1.1	.28	.02	0	1.8
31	.71	---	.81	.81	---	1.7	---	1.0	---	.01	0	---
TOTAL	14.49	19.72	23.56	27.42	116.96	70.4	55.0	47.7	21.31	3.83	.92	21.56
MEAN	.47	.66	.76	.88	4.03	2.27	1.83	1.54	.71	.12	.030	.72
MAX	.71	.76	.81	1.0	.26	3.8	2.0	2.0	.98	.31	.08	5.6
MIN	.14	.52	.71	.81	.81	1.7	1.6	1.0	.25	.01	0	0
AC-FT	29	39	47	54	232	140	109	95	42	7.6	1.8	43

CAL YR 1975 TOTAL 745.99 MEAN 2.04 MAX 52 MIN .08 AC-FT 1480
WTR YR 1976 TOTAL 422.87 MEAN 1.16 MAX 26 MIN 0 AC-FT 839

SANTA MARIA RIVER BASIN

11136800 CUYAMA RIVER BELOW BUCKHORN CANYON, NEAR SANTA MARIA, CA

LOCATION.--Lat 35°01'19", long 120°13'39", in SW¼ sec.14, T.11 N., R.32 W., San Luis Obispo-Santa Barbara County line, near right bank on downstream side of bridge on State Highway 166, 0.7 mi (1.1 km) downstream from Buckhorn Canyon, and 13 mi (21 km) northeast of Santa Maria.

DRAINAGE AREA.--886 mi² (2,295 km²).

PERIOD OF RECORD.--October 1903 to December 1905 (published as Santa Maria River near Santa Maria), October 1959 to current year. Monthly discharge only for October 1903 and July 1904 and yearly estimate for water year 1941 (incomplete), published in WSP 1315-B.

GAGE.--Water-stage recorder. Altitude of gage is 760 ft (232 m), from topographic map. Prior to October 1959, nonrecording gage at different site and datum.

REMARKS.--Records good. No regulation above station. Pumping from wells along stream for irrigation of several thousand acres in Upper Cuyama Valley.

AVERAGE DISCHARGE.--19 years (water years 1904, 1905, 1960-76) 20.2 ft³/s (0.572 m³/s), 14,630 acre-ft/yr (18.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,800 ft³/s (504 m³/s) Feb. 25, 1969, gage height, 13.70 ft (4.176 m), from rating curve extended above 4,900 ft³/s (139 m³/s) on basis of slope-area measurement at gage height 10.85 ft (3.307 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)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Feb. 10	0330	904	25.6	7.63	2.326
Sept. 30	Unknown	*984	27.9	7.68	2.341

Minimum daily discharge, no flow for several months during year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.29	.31	.29	.19	.07	1.4	.27	.19	.01			0
2	.28	.30	.26	.19	.07	5.5	.24	.20	.01			0
3	.27	.28	.24	.19	.08	8.5	.32	.18	.02			0
4	.27	.24	.24	.19	.12	1.2	.29	.19	.02			0
5	.27	.24	.23	.19	.38	.51	.28	.21	.02			0
6	.29	.24	.24	.18	.25	.33	.26	.22	.02			0
7	.31	.26	.22	.18	.22	.27	.24	.22	.01			0
8	.30	.26	.20	.17	.34	.24	.32	.19	.02			0
9	.30	.26	.20	.19	.41	.28	.26	.19	.03			0
10	.37	.26	.20	.18	250	.28	.23	.16	.02			0
11	.40	.26	.19	.19	12	.27	.24	.16	.01			0
12	.32	.25	.20	.17	2.7	.23	.29	.12	0			42
13	.31	.25	.19	.17	1.1	.22	.26	.11	0			2.8
14	.30	.25	.19	.17	.71	.23	.25	.09	0			.50
15	.29	.25	.19	.15	.54	.21	.27	.08	0			.20
16	.29	.25	.19	.14	.48	.21	.24	.09	0			.10
17	.29	.25	.19	.14	.43	.22	.23	.09	0			.05
18	.29	.29	.19	.14	.44	.23	.22	.08	0			.02
19	.29	.29	.19	.15	.44	.24	.19	.09	0			.02
20	.29	.25	.19	.13	.38	.24	.19	.10	0			.01
21	.29	.27	.20	.13	.38	.24	.17	.11	0			.01
22	.29	.25	.18	.13	.37	.22	.18	.08	0			.01
23	.29	.25	.18	.12	.38	.24	.19	.07	0			.01
24	.29	.26	.19	.12	.34	.25	.17	.07	0			.01
25	.29	.25	.18	.12	.34	.26	.16	.07	0			.01
26	.29	.24	.18	.12	.34	.28	.15	.06	0			0
27	.31	.28	.17	.12	.34	.25	.16	.04	0			0
28	.30	.32	.16	.10	.34	.27	.17	.04	0			.33
29	.27	.28	.15	.10	.43	.29	.18	.04	0			.07
30	.31	.28	.16	.08	---	.25	.18	.04	0			338
31	.28	---	.17	.08	---	.27	---	.03	---			---
TOTAL	9.23	7.92	6.15	4.62	315.01	23.63	6.80	3.61	.19	0	0	384.15
MEAN	.30	.26	.20	.15	10.9	.76	.23	.12	.006	0	0	12.8
MAX	.40	.32	.29	.19	250	8.5	.32	.22	.03	0	0	338
MIN	.27	.24	.15	.08	.07	.21	.15	.03	0	0	0	0
AC-FT	18	16	12	9.2	625	47	13	7.2	.4	0	0	762
CAL YR 1975	TOTAL	819.01	MEAN	2.24	MAX	267	MIN	.15	AC-FT	1620		
WTR YR 1976	TOTAL	761.31	MEAN	2.08	MAX	338	MIN	0	AC-FT	1510		

11137400 ALAMO CREEK NEAR NIPOMO, CA

LOCATION.--Lat 35°02'55", long 120°18'05", in Huasna Grant, San Luis Obispo County, on right bank 3.2 mi (5.1 km) upstream from mouth, and 10 mi (16 km) east of Nipomo.

DRAINAGE AREA.--83.3 mi² (215.7 km²).

PERIOD OF RECORD.--March 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 650 ft (198 m), from topographic map. Prior to Oct. 1, 1966, at datum 2.00 ft (0.610 m) higher.

REMARKS.--No flow since Mar. 22, 1975. No regulation or diversion above station.

AVERAGE DISCHARGE.--17 years, 7.56 ft³/s (0.214 m³/s), 5,480 acre-ft/yr (6.76 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,020 ft³/s (255 m³/s) Jan. 25, 1969, gage height, 10.51 ft (3.203 m), from rating curve extended above 3,100 ft³/s (87.8 m³/s) on basis of slope-area measurement at gage height 10.30 ft (3.139 m); no flow for all or part of each year.

EXTREMES FOR CURRENT YEAR.--No flow during year.

SANTA MARIA RIVER BASIN

11137900 HUASNA RIVER NEAR ARROYO GRANDE, CA

LOCATION.--Lat 35°04'40", long 120°22'15", in Huasna Grant, San Luis Obispo County, on right bank 300 ft (91 m) downstream from Huasna Creek, and 12 mi (19 km) southeast of Arroyo Grande.

DRAINAGE AREA.--103 mi² (267 km²).

PERIOD OF RECORD.--June 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 640 ft (195 m), from topographic map.

REMARKS.--Records fair except for period of no gage height record, Feb. 1-9, which is poor. No regulation above station. Some diversion above station into cattle ponds by two ranches upstream and one ranch at station. Extensive diversions by pumping for irrigation above station.

AVERAGE DISCHARGE.--17 years, 17.1 ft³/s (0.484 m³/s), 12,390 acre-ft/yr (15.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,000 ft³/s (595 m³/s) Jan. 25, 1969, gage height, 15.90 ft (4.846 m), from rating curve extended above 1,300 ft³/s (36.8 m³/s) on basis of slope-area measurement of maximum flow; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9.9 ft³/s (0.28 m³/s) Feb. 9, gage height, 2.62 ft (0.799 m), no peak above base of 40 ft³/s (1.13 m³/s); no flow Sept. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.27	.55	.13	.47	.13	1.1	.27	.08	.28	.33	.27	.13
2	.47	.55	.17	.47	.13	1.3	.17	.07	.06	.33	.95	.10
3	.74	.55	.17	.55	.13	.85	.17	.05	.04	.13	.27	.05
4	.73	.55	.17	.47	.13	.73	.13	.21	.05	.07	1.1	.04
5	.72	.55	.22	.39	.15	.73	.10	.06	.05	.07	.22	.03
6	.72	.51	.22	.39	.15	.73	.10	.05	.09	.05	.17	.03
7	.72	.53	.22	.33	.20	.74	.07	.05	.16	.27	.10	.01
8	.72	.38	.22	.33	.30	.73	.13	.05	.35	.10	.07	0
9	.72	.32	.22	.33	2.3	.64	.13	.03	1.2	.04	.07	.02
10	.72	.23	.27	.33	.58	.72	.17	.03	.19	.03	.05	.10
11	.80	.17	.33	.39	.41	.73	.41	.04	.88	.04	.05	.23
12	1.0	.17	.27	.39	.46	.73	.42	.04	.44	.04	.07	.26
13	.72	.17	.39	.39	.47	.73	.47	.05	.28	.05	.07	.25
14	.70	.22	.33	.39	.42	.70	.47	.08	.18	.17	.10	.20
15	.70	.24	.39	.39	.43	.73	.48	.09	.17	.27	.17	.25
16	.70	.26	.39	.33	.47	.73	.52	.17	.12	.17	.13	.22
17	.69	.28	.39	.27	.47	.73	.55	.16	.13	.33	.22	.22
18	.69	.30	.39	.27	.47	.75	.55	.12	.13	.64	.54	.22
19	.69	.32	.46	.17	.55	.73	.56	.09	.12	.05	.33	.16
20	.68	.34	.39	.17	.47	.68	.61	.07	.10	.04	.17	.20
21	.68	.18	.27	.13	.47	.63	.63	.07	.12	.03	.13	.22
22	.68	.16	.27	.13	.39	.63	.67	.09	.16	.02	.13	.21
23	.67	.13	.27	.13	.42	.64	.34	.10	.15	.03	.17	.10
24	.67	.13	.33	.10	.47	.64	.19	.10	.14	.03	.20	.10
25	.67	.13	.33	.10	.47	.60	.17	.13	.14	.04	.15	.10
26	.66	.13	.39	.13	.47	.63	.15	.12	.12	.04	.28	.04
27	.66	.13	.39	.16	.54	.62	.19	.10	.10	.05	.71	.03
28	.66	.13	.46	.12	.55	.61	.16	.10	.11	.13	.58	.68
29	.66	.13	.46	.13	.73	.51	.11	.10	.76	.17	2.4	1.0
30	.66	.13	.47	.13	---	.47	.10	.07	.99	.39	3.0	.14
31	.58	---	.48	.13	---	.55	---	.06	---	1.7	.47	---
TOTAL	21.15	8.57	9.86	8.61	13.33	22.04	9.19	2.63	7.81	5.85	13.34	5.34
MEAN	.68	.29	.32	.28	.46	.71	.31	.085	.26	.19	.43	.18
MAX	1.0	.55	.48	.55	2.3	1.3	.67	.21	1.2	1.7	3.0	1.0
MIN	.27	.13	.13	.10	.13	.47	.07	.03	.04	.02	.05	0
AC-FT	42	17	20	17	26	44	18	5.2	15	12	26	11
CAL YR 1975	TOTAL	965.41	MEAN	2.65	MAX	36	MIN	.13	AC-FT	1910		
WTR YR 1976	TOTAL	127.72	MEAN	.35	MAX	3.0	MIN	0	AC-FT	253		

SANTA MARIA RIVER BASIN

609

11138100 CUYAMA RIVER BELOW TWITCHELL DAM, CA

LOCATION.--Lat 34°56'40", long 120°17'30", in Suey Grant, Santa Barbara County, on left bank 3.5 mi (5.6 km) upstream from mouth, 4 mi (6 km) northeast of Garey, and 4.4 mi (7.1 km) downstream from Twitchell Dam.

DRAINAGE AREA.--1,132 mi² (2,932 km²).

PERIOD OF RECORD.--October 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 401.94 ft (122.511 m) above mean sea level (Bureau of Reclamation bench mark).

REMARKS.--No flow since July 8, 1975. Flow regulated since February 1959 by Twitchell Reservoir, capacity 240,000 acre-ft (296 hm³). Controlled releases are for ground-water recharge in Santa Maria Valley. Some pumping from wells along stream for irrigation above station. Discharge figures for calendar year 1975 are as follows: Total, 2,880.99 ft³/s (81.6 m³/s), 5,720 acre-ft/yr (6.49 hm³/yr); mean, 7.87 ft³/s (0.22 m³/s); maximum daily, 161 ft³/s (4.56 m³/s); minimum daily, no flow.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,100 ft³/s (258 m³/s) June 13, 1973, gage height, 8.22 ft (2.505 m), result of sluicing at dam; no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--No flow during year.

SANTA MARIA RIVER BASIN

11138500 SISQUOC RIVER NEAR SISQUOC, CA

LOCATION.--Lat 34°50'23", long 120°10'02", in Siquoc Grant, Santa Barbara County, on left bank 2.6 mi (4.2 km) upstream from La Brea Creek, and 7 mi (11 km) east of Siquoc.

DRAINAGE AREA.--281 mi² (728 km²).

PERIOD OF RECORD.--October 1943 to current year. October 1929 to September 1933, at site 0.2 mi (0.3 km) downstream; low-flow records not equivalent owing to diversion immediately upstream. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 624.30 ft (190.287 m) above mean sea level (Corps of Engineers bench mark). See WSP 1735 for history of changes prior to Aug. 24, 1951.

REMARKS.--Records poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--33 years, 40.0 ft³/s (1.133 m³/s), 28,980 acre-ft/yr (35.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,200 ft³/s (657 m³/s) Dec. 6, 1966, gage height, 15.75 ft (4.801 m), from rating curve extended above 1,700 ft³/s (48.1 m³/s) on basis of slope-area measurements at gage heights 10.08 ft (3.072 m) and 15.75 ft (4.801 m); no flow Nov. 11-18, 1967.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 2, 1938, 11,000 ft³/s (312 m³/s), gage height, 8.1 ft (2.47 m), from high-water mark in gage well, at site in use 1929-33, from rating curve extended above 2,800 ft³/s (79.3 m³/s).

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)
Feb. 9	Unknown	*360 10.2	Unknown
Sept. 30	0145	Unknown	Unknown

Minimum daily discharge, 0.86 ft³/s (0.024 m³/s) June 24-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.6	1.8	1.4	1.7	11	11	3.2	1.6	1.1	1.5	1.1
2	1.5	1.6	1.8	1.4	1.7	42	11	3.0	1.6	1.1	1.5	1.1
3	1.5	1.6	1.7	1.4	1.7	53	12	2.8	1.6	1.1	1.5	1.1
4	1.5	1.7	1.7	1.4	1.9	34	12	2.7	1.6	1.1	1.5	1.1
5	1.5	1.7	1.7	1.4	2.5	26	12	2.6	1.5	1.1	1.4	1.1
6	1.5	1.7	1.7	1.4	4.0	22	11	2.5	1.5	1.2	1.4	1.0
7	1.5	1.7	1.7	1.4	6.0	19	12	2.4	1.5	1.2	1.4	1.0
8	1.5	1.7	1.7	1.4	20	18	14	2.3	1.4	1.2	1.4	1.0
9	1.5	1.7	1.7	1.4	250	17	16	2.3	1.4	1.2	1.4	1.3
10	3.0	1.7	1.7	1.4	165	16	16	2.3	1.3	1.3	1.4	3.0
11	10	1.7	1.6	1.5	55	15	15	2.2	1.3	1.3	1.4	40
12	5.0	1.7	1.6	1.5	24	14	22	2.2	1.3	1.3	1.4	27
13	4.0	1.7	1.6	1.5	13	13	23	2.2	1.2	1.3	1.4	7.3
14	3.5	1.7	1.6	1.5	8.0	13	17	2.1	1.2	1.3	1.4	3.1
15	2.8	1.7	1.6	1.5	6.0	12	14	2.1	1.2	1.4	1.4	2.4
16	2.5	1.7	1.6	1.5	5.0	12	12	2.1	1.1	1.4	1.3	1.9
17	2.3	1.7	1.6	1.5	4.5	12	10	2.0	1.1	1.4	1.3	1.4
18	2.2	1.7	1.6	1.6	4.3	11	8.0	2.0	1.1	1.5	1.3	1.3
19	2.1	1.7	1.5	1.6	4.2	11	7.0	2.0	1.0	1.5	1.3	1.2
20	2.0	1.7	1.5	1.6	4.0	11	6.5	1.9	1.0	1.5	1.3	1.2
21	1.9	1.7	1.5	1.6	3.9	11	6.0	1.9	.95	1.5	1.3	1.2
22	1.8	1.7	1.5	1.6	3.9	11	5.5	1.9	.92	1.6	1.3	1.1
23	1.8	1.7	1.5	1.7	3.8	11	5.0	1.9	.88	1.6	1.3	1.1
24	1.7	1.7	1.5	1.7	3.7	11	4.7	1.9	.86	1.6	1.3	1.1
25	1.7	1.7	1.5	1.7	3.7	11	4.5	1.9	.86	1.6	1.3	1.0
26	2.0	1.7	1.4	1.7	3.7	11	4.3	1.8	.86	1.6	1.2	1.0
27	3.0	2.0	1.4	1.7	3.7	11	4.0	1.8	1.0	1.6	1.2	1.0
28	2.0	3.0	1.4	1.7	3.7	11	3.7	1.7	1.0	1.6	1.2	2.0
29	1.7	2.0	1.4	1.7	4.1	11	3.5	1.7	1.0	1.6	1.2	6.0
30	1.6	1.9	1.4	1.7	---	11	3.3	1.7	1.0	1.6	1.2	200
31	1.6	---	1.4	1.7	---	11	---	1.6	---	1.6	1.2	---
TOTAL	73.7	52.8	48.9	47.8	616.7	503	306.0	66.7	35.83	43.0	41.6	315.1
MEAN	2.38	1.76	1.58	1.54	21.3	16.2	10.2	2.15	1.19	1.39	1.34	10.5
MAX	10	3.0	1.8	1.7	250	53	23	3.2	1.6	1.6	1.5	200
MIN	1.5	1.6	1.4	1.4	1.7	11	3.3	1.6	.86	1.1	1.2	1.0
AC-FT	146	105	97	95	1220	998	607	132	71	85	83	625

CAL YR 1975	TOTAL	8848.80	MEAN	24.2	MAX	1120	MIN	.90	AC-FT	17550
WTR YR 1976	TOTAL	2151.13	MEAN	5.88	MAX	250	MIN	.86	AC-FT	4270

11139500 TEPUSQUET CREEK NEAR SISQUOC, CA

LOCATION.--Lat 34°52'21", long 120°14'37", in NE¼ sec.9, T.9 N., R.32 W., Santa Barbara County, on downstream wingwall of right bridge abutment on Tepusquet Road (revised), 1.1 mi (1.8 km) upstream from mouth, and 3 mi (5 km) east of Sisquoc.

DRAINAGE AREA.--28.7 mi² (74.3 km²).

PERIOD OF RECORD.--October 1943 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 500 ft (152 m), from topographic map. Prior to Dec. 9, 1948, at datum 0.9 ft (0.27 m) higher.

REMARKS.--Records fair except those above 1.0 ft³/s (0.028 m³/s), which are poor. No regulation above station. Some diversion by pumping from wells along stream to irrigate about 100 acres (405,000 m²) above gage.

AVERAGE DISCHARGE.--33 years, 1.51 ft³/s (0.043 m³/s), 1,090 acre-ft/yr (1.34 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 788 ft³/s (22.3 m³/s) Dec. 6, 1966, gage height, 5.48 ft (1.670 m), from rating curve extended above 220 ft³/s (6.23 m³/s) on basis of computation of maximum flow at contracted opening; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20 ft³/s (0.57 m³/s) Sept. 29, gage height, 3.58 ft (1.091 m), from rating curve extended above 1.0 ft³/s (0.028 m³/s), no peak above base of 50 ft³/s (1.42 m³/s); minimum daily, 0.06 ft³/s (0.002 m³/s) July 27, 28, Aug. 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	.14	.15	.16	.16	.52	.32	.34	.26	.18	.10	.08
2	.19	.12	.14	.16	.16	.68	.32	.34	.26	.18	.10	.09
3	.26	.12	.14	.16	.19	.48	.40	.28	.26	.18	.09	.10
4	.14	.12	.19	.16	.22	.39	.35	.34	.35	.18	.09	.10
5	.07	.14	.17	.16	.28	.39	.35	.34	.26	.18	.09	.12
6	.14	.14	.19	.14	.35	.32	.35	.37	.26	.16	.09	.13
7	.26	.14	.14	.14	.35	.32	.35	.34	.26	.14	.10	.13
8	.35	.14	.14	.16	.60	.32	.57	.34	.35	.16	.09	.12
9	.45	.12	.19	.16	1.5	.32	.45	.34	.35	.16	.08	.08
10	.71	.12	.22	.16	1.1	.32	.45	.34	.26	.16	.06	1.1
11	1.3	.09	.18	.16	.34	.32	.45	.28	.26	.16	.06	1.5
12	1.4	.09	.25	.16	.34	.32	.60	.28	.26	.14	.08	.20
13	.26	.12	.17	.18	.29	.28	.50	.24	.26	.14	.09	.20
14	.19	.12	.15	.18	.29	.28	.45	.28	.26	.09	.09	.17
15	.14	.09	.19	.18	.29	.28	.50	.28	.26	.10	.15	.20
16	.14	.12	.14	.18	.25	.28	.37	.34	.26	.10	.12	.20
17	.14	.09	.14	.16	.29	.28	.34	.28	.35	.10	.10	.24
18	.19	.12	.19	.16	.25	.28	.34	.28	.35	.12	.12	.24
19	.14	.12	.19	.18	.25	.28	.37	.28	.26	.12	.17	.24
20	.14	.12	.26	.18	.21	.24	.34	.28	.35	.12	.15	.28
21	.19	.16	.16	.18	.25	.24	.34	.34	.35	.12	.13	.24
22	.19	.23	.12	.21	.21	.24	.34	.34	.34	.14	.13	.24
23	.09	.16	.15	.21	.25	.28	.37	.13	.27	.14	.12	.24
24	.09	.12	.15	.23	.25	.28	.34	.34	.20	.10	.13	.24
25	.09	.13	.15	.23	.25	.24	.28	.20	.18	.12	.10	.24
26	.14	.14	.14	.23	.25	.24	.28	.21	.18	.09	.09	.24
27	.14	.19	.14	.23	.25	.24	.34	.57	.16	.06	.09	.28
28	.09	.30	.11	.19	.25	.24	.34	.32	.16	.06	.09	.83
29	.11	.22	.16	.19	.34	.28	.34	.32	.16	.09	.09	3.7
30	.26	.21	.14	.19	---	.24	.28	.38	.18	.09	.09	.40
31	.16	---	.14	.19	---	.32	---	.26	---	.09	.08	---
TOTAL	8.27	4.24	5.09	5.56	10.01	9.74	11.42	9.60	7.92	3.97	3.16	12.17
MEAN	.27	.14	.16	.18	.35	.31	.38	.31	.26	.13	.10	.41
MAX	1.4	.30	.26	.23	1.5	.68	.60	.57	.35	.18	.17	3.7
MIN	.07	.09	.11	.14	.16	.24	.28	.13	.16	.06	.06	.08
AC-FT	16	8.4	10	11	20	19	23	19	16	7.9	6.3	24
CAL YR 1975	TOTAL 220.53	MEAN .60	MAX 5.7	MIN .07	AC-FT 437							
WTR YR 1976	TOTAL 91.15	MEAN .25	MAX 3.7	MIN .06	AC-FT 181							

SANTA MARIA RIVER BASIN

11140000 SISQUOC RIVER NEAR GAREY, CA

LOCATION.--Lat 34°53'38", long 120°18'20", in SW¼ sec.36, T.10 N., R.33 W., Santa Barbara County, on downstream side of Santa Maria Mesa Road bridge (revised) near right bank, 0.6 mi (1.0 km) northeast of Garey, and 3.7 mi (6.0 km) downstream from Tepusquet Creek.

DRAINAGE AREA.--471 mi² (1,220 km²).

PERIOD OF RECORD.--October 1940 to current year. Records for water year 1941 incomplete, yearly estimate and monthly discharge only for October 1940 and January 1941, published in WSP 1315-B.

GAGE.--Two water-stage recorders. Datum of main gage is 354.8 ft (108.14 m) above mean sea level (Santa Barbara County bench mark). See WSP 1735 for history of changes prior to Oct. 1, 1959. Oct. 1, 1959, to Dec. 30, 1965, at datum 6.00 ft (1.829 m) higher. Since Oct. 1, 1959, supplementary gage on downstream side of bridge near left bank at same datum.

REMARKS.--Records fair. No regulation above station. Pumping from wells along stream for irrigation of about 7,000 acres (28.3 km²) above station.

AVERAGE DISCHARGE.--36 years, 38.5 ft³/s (1.090 m³/s), 27,890 acre-ft/yr (34.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,500 ft³/s (694 m³/s) Jan. 25, 1969, gage height, 13.00 ft (3.962 m); maximum gage height, 13.50 ft (4.115 m) Dec. 6, 1966; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft³/s (2.83 m³/s) and maximum(*):

Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)
Feb. 10	0100	*389	11.0	4.73	1.442
Sept. 29	0245	176	4.98	4.23	1.289

Minimum daily discharge, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	0			0	0		0
2					0	5.2			0	0		0
3					0	8.3			0	0		0
4					0	4.1			.01	0		0
5					0	.22			.01	0		0
6					0	0			0	0		0
7					0	0			0	0		0
8					2.9	0			0	0		0
9					4.1	0			0	0		0
10				126	0				0	0		0
11					20	0			0	0		0
12					.58	0			0	.04		0
13					0	0			0	0		0
14					0	0			0	0		0
15					0	0			0	0		0
16					0	0			0	0		0
17					0	0			0	0		0
18					0	0			0	0		0
19					0	0			0	0		0
20					0	0			0	0		0
21					0	0			.01	.03		0
22					0	0			0	0		0
23					0	0			0	0		0
24					0	0			0	0		0
25					0	0			0	0		0
26					0	0			0	0		0
27					0	0			0	0		0
28					0	0			0	0		0
29					0	.01			.03	0		23
30					---	0			.01	0		2.7
31		---			---	0	---		---	0		---
TOTAL	0	0	0	0	153.58	17.83	0	0	.07	.07	0	25.7
MEAN	0	0	0	0	5.30	.58	0	0	.002	.002	0	.86
MAX	0	0	0	0	126	8.3	0	0	.03	.04	0	23
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	305	35	0	0	.1	.1	0	51
CAL YR 1975	TOTAL	3958.99	MEAN	10.8	MAX	1160	MIN	0	AC-FT	7850		
WTR YR 1976	TOTAL	197.25	MEAN	.54	MAX	126	MIN	0	AC-FT	391		

11140600 BRADLEY DITCH NEAR DONOVAN ROAD, AT SANTA MARIA, CA

LOCATION.--Lat 34°58'00", long 120°25'00", in NE¼NE¼NE¼ sec.11, T.10 N., R.34 W., Santa Barbara County, on left bank 250 ft (76 m) south of Donovan Road, and 0.2 mi (0.3 km) east of U.S. Highway 101 in Santa Maria.

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder on concrete-lined channel. Altitude of gage is 225 ft (69 m), from topographic map.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--6 years, 0.91 ft³/s (0.026 m³/s), 659 acre-ft/yr (813,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 295 ft³/s (8.35 m³/s) Dec. 4, 1974, gage height, 5.08 ft (1.548 m), from rating curve based on computation of flow in concrete-lined channel; no flow for several days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 230 ft³/s (6.51 m³/s) Sept. 29 (0015 hrs), gage height, 4.51 ft (1.375 m), from rating curve based on computation of flow in concrete-lined channel; no other peaks above base of 100 ft³/s (2.83 m³/s); no flow Feb. 13, 15, Sept. 14-16, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.42	.30	.18	.46	.03	2.0	.30	.42	.06	1.3	.79	.30
2	.73	.07	.27	.14	.08	3.7	.30	.21	.15	1.0	.61	.18
3	.42	.21	.24	.04	.04	1.4	.21	.21	.42	1.1	.93	.10
4	.16	.51	.08	.04	.07	.03	.02	.21	.36	.68	1.0	.30
5	.02	.08	.27	.42	.93	.01	.18	.10	.18	.34	1.0	.08
6	.08	.38	.27	.61	1.3	.01	.30	.08	.69	1.1	1.1	.06
7	.42	.08	.21	.27	.21	.01	.46	.10	.28	1.4	1.7	.21
8	.61	.07	.21	.27	9.9	.01	1.2	.08	.94	1.5	.86	.05
9	.30	.42	.24	.30	12	.01	.02	.02	.43	1.2	1.5	.04
10	.34	.42	.24	.42	14	.02	.01	.02	1.1	1.1	1.7	6.3
11	1.3	.14	.34	.42	.03	.07	.06	.16	1.2	.60	2.4	17
12	.03	.30	.73	1.0	.01	.10	1.6	.34	1.2	.30	2.0	.14
13	.01	.16	.14	.56	0	.14	.46	.18	.41	.78	1.9	.02
14	.01	.30	.08	.21	.02	.02	.04	.30	.35	.69	1.4	0
15	.04	.27	.03	.27	0	.18	.10	.02	.27	.69	.86	0
16	.27	.30	.24	.61	.08	.24	.03	.08	.33	.84	.51	0
17	.86	.30	.06	.51	.46	.02	.01	.02	.86	.72	1.7	.01
18	.56	.24	.42	.04	.32	.24	.18	.03	.55	.59	1.4	.04
19	.08	.21	.61	.27	.31	.24	.03	.06	.33	.92	1.6	.02
20	.04	.61	.42	.38	.01	.17	.03	.08	.28	1.3	.51	0
21	.03	.18	.24	.42	.11	.38	.03	.06	.46	.84	.06	.01
22	.21	.24	.08	.27	.07	.18	.08	.10	.55	.73	.02	.34
23	.27	.27	.10	.24	.08	.06	.14	.73	.95	.52	.01	.03
24	.21	.51	.34	.42	.24	.16	.14	.42	.51	.59	.02	.51
25	.51	.27	.07	.07	.46	.38	.18	.38	.66	.36	.02	.42
26	.46	.38	.34	.21	.21	.51	.04	.03	.85	.29	.13	.38
27	.18	.08	.24	.14	.18	.21	.06	.03	.67	.52	.07	.16
28	.42	.12	.18	.21	.30	.08	.02	.29	1.1	1.0	.21	9.9
29	.07	.03	.18	.27	1.6	.02	.02	.33	.49	1.0	.34	40
30	.79	.02	.46	.38	---	.38	.10	.26	.51	.73	.34	2.5
31	.04	---	.42	.27	---	.30	---	.03	---	.73	.38	---
TOTAL	9.89	7.47	7.93	10.14	43.05	11.28	6.35	5.38	17.14	25.46	41.47	79.10
MEAN	.32	.25	.26	.33	1.48	.36	.21	.17	.57	.82	1.34	2.64
MAX	1.3	.61	.73	1.0	14	3.7	1.6	.73	1.2	1.5	1.6	40
MIN	.01	.02	.03	.04	0	.01	.01	.02	.06	.29	.01	0
AC-FT	20	15	16	20	85	22	13	11	34	50	82	157

CAL YR 1975 TOTAL 210.33 MEAN .58 MAX 26 MIN 0 AC-FT 417
WTR YR 1976 TOTAL 264.66 MEAN .72 MAX 40 MIN 0 AC-FT 525

SANTA MARIA RIVER BASIN

11140800 BLOSSER DITCH NEAR DONOVAN ROAD, AT SANTA MARIA, CA

LOCATION.--Lat 34°58'44", long 120°27'06", in SW¼NW¼NW¼ sec.3, T.10 N., R.34 W., Santa Barbara County, on right bank 0.8 mi (1.3 km) north of Donovan Road, and 1.0 mi (1.6 km) west of Broadway Boulevard in Santa Maria.

PERIOD OF RECORD.--October 1972 to September 1976 (discontinued). November 1962 to September 1972 in files of Santa Barbara County Flood Control and Water Conservation District.

GAGE.--Water-stage recorder and culvert control. Altitude of gage is 190 ft (58 m), from topographic map.

REMARKS.--Records good. Runoff affected by urbanization.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 230 ft³/s (6.51 m³/s) Jan. 18, 1973, gage height, 6.88 ft (2.097 m); no flow many days in each year.

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)	
Feb. 8	0200	109	3.09	4.69	1.430	Sept. 29	0015	*210	5.95	6.85	2.088
Aug. 19	1030	114	3.23	4.80	1.463						

Minimum daily discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.22	0	.26	0	.85	2.4	.58	.34	.11	1.1	.06	.34
2	.25	0	.12	.20	.26	7.8	.27	.03	0	1.4	0	.52
3	.02	0	.22	.42	.76	3.5	.64	.53	0	1.6	.47	1.2
4	0	0	.01	.07	.45	0	.02	.61	0	.02	.66	.41
5	0	.20	0	.30	7.4	0	0	.43	0	.53	.05	.71
6	0	1.3	0	.24	5.9	0	.31	.67	.11	1.6	1.3	.02
7	.23	.41	0	.53	.50	0	.52	.25	.19	1.5	1.2	.29
8	.59	.33	.14	.65	25	0	3.7	.24	.24	.11	.89	.76
9	1.4	.01	.02	.52	27	.02	.25	.01	.01	.57	.12	1.1
10	2.9	.03	.31	.61	23	.08	.85	.05	.02	.98	.98	11
11	4.1	.14	.74	.01	.15	0	.64	.57	0	.71	.98	8.1
12	.01	.20	.81	.27	.47	0	9.2	.44	0	.76	.47	0
13	.60	1.2	.02	.49	1.4	0	.85	.12	0	.82	1.8	0
14	1.0	.71	0	.41	1.0	0	0	.14	.08	1.3	2.2	0
15	.43	.03	0	.24	0	.17	.34	.11	.09	2.1	1.1	0
16	1.3	0	0	.20	0	.50	.01	0	.31	1.4	1.0	0
17	1.3	0	0	.20	0	.94	0	0	.12	.88	1.3	0
18	.60	.46	.71	.20	0	1.3	0	.19	.33	.60	2.4	0
19	.20	.50	.74	.20	.01	1.5	.04	.07	.42	.90	19	0
20	.13	.49	.91	.20	0	.59	.07	.82	.22	1.2	.32	.21
21	.03	.29	.01	.15	0	.66	.58	.73	.75	1.2	.04	.87
22	.42	.11	0	.15	0	0	.55	.56	1.1	.65	.22	.53
23	1.5	0	0	.15	.43	0	.41	1.2	.93	.41	.23	.73
24	.35	.02	0	.10	1.1	.33	.60	.01	.73	.93	.20	1.6
25	.27	.28	0	.10	.92	.81	0	0	.61	1.2	.54	1.1
26	.81	1.1	0	.08	1.4	.13	.11	0	.87	.02	.21	.74
27	.20	.03	.28	.05	.58	.62	.64	.19	.86	.85	.03	0
28	.19	.74	.01	0	.35	1.0	.81	.25	1.5	.85	1.1	15
29	.21	.22	.25	.41	6.2	.31	.66	.15	1.6	1.6	.92	39
30	2.3	.01	.03	.61	---	.31	.41	0	1.1	1.0	.03	2.8
31	.03	---	.26	1.6	---	.86	---	0	---	.55	.25	---
TOTAL	21.59	8.81	5.85	9.36	105.13	23.83	23.06	8.71	12.30	29.34	40.07	87.03
MEAN	.70	.29	.19	.30	3.63	.77	.77	.28	.41	.95	1.29	2.90
MAX	4.1	1.3	.91	1.6	27	7.8	9.2	1.2	1.6	2.1	19	39
MIN	0	0	0	0	0	0	0	0	0	.02	0	0
AC-FT	43	17	12	19	209	47	46	17	24	58	79	173

CAL YR 1975 TOTAL 221.22 MEAN .61 MAX 40 MIN 0 AC-FT 439
WTR YR 1976 TOTAL 375.08 MEAN 1.02 MAX 39 MIN 0 AC-FT 744

11141000 SANTA MARIA RIVER AT GUADALUPE, CA

LOCATION.--Lat 34°58'35", long 120°34'15", in Guadalupe Grant, Santa Barbara County, on downstream side of bridge on State Highway 1, 0.5 mi (0.8 km) north of Guadalupe, and 4.5 mi (7.2 km) upstream from mouth.

DRAINAGE AREA.--1,741 mi² (4,509 km²).

PERIOD OF RECORD.--October 1940 to current year. Monthly discharge only October 1940 to January 1941, published in WSP 1315-B.

GAGE.--Three water-stage recorders. Datum of main gage (left channel) is 64.92 ft (19.788 m) above mean sea level. Two supplementary gages; one on center channel at datum 0.47 ft (0.143 m) higher than main gage, and one on right channel at datum 2.22 ft (0.677 m) higher than main gage. Prior to Aug. 11, 1955, main gage at site 100 ft (30 m) upstream at same datum. Supplementary gages started in 1956.

REMARKS.--No flow since Mar. 9, 1975. Cuyama River regulated since February 1959 by Twitchell Reservoir, capacity, 240,000 acre-ft (296 hm³). Several small surface diversions and extensive pumping from wells for irrigation along stream above station. AVERAGE DISCHARGE represents flow to ocean, regardless of upstream development. Discharge figures for the calendar year 1975 are as follows: Total, 155 ft³/s (4.39 m³/s), 307 acre-ft/yr (379,000 m³/yr); mean, 0.42 ft³/s (0.012 m³/s); maximum daily, 119 ft³/s (3.37 m³/s); minimum daily, no flow.

AVERAGE DISCHARGE.--36 years, 30.1 ft³/s (0.852 m³/s), 21,810 acre-ft/yr (26.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,800 ft³/s (929 m³/s) Jan. 16, 1952, gage height, 8.18 ft (2.493 m); maximum gage height, 10.00 ft (3.048 m) Feb. 26, 1969; no flow for all or parts of each year.

EXTREMES FOR CURRENT YEAR.--No flow during year.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain, but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for the current water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been obtained.

Annual maximum discharge at crest-stage partial-record stations during water year 1976

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft ³ /s)
Dale Lake basin							
10253320	Quail Wash near Joshua Tree, CA	Lat 34°07'04", long 116°18'27", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.1, T.1 S., R.6 E., San Bernardino County, on right bank 0.2 mi downstream from Coyote Hole Spring and 1.1 mi south of Joshua Tree.	100	1964-71† 1972-76	9-10-76	2.76	212
10253350	Fortynine Palms Creek near Twentynine Palms, CA	Lat 34°07'12", long 116°05'43" (unsurveyed), San Bernardino County, in Joshua Tree National Monument, on left bank 50 ft upstream from North Monument boundary, 1.1 mi downstream from Fortynine Palms Oasis, and 2.6 mi southwest of Twentynine Palms.	8.55	1962-71† 1972-76	9-10-76	1.15	8.8
Salton Sea basin							
10257800	Long Creek near Desert Hot Springs, CA	Lat 33°57'53", long 116°26'35", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.27, T.2 S., R.4 E., Riverside County, on left bank 0.4 mi downstream from Metropolitan Water District aqueduct, and 3.3 mi east of Desert Hot Springs.	19.4	1963-71† 1972-76	9-10-76	3.90	957
Emerson Lake basin							
10260200	Pipes Creek near Yucca Valley, CA	Lat 34°10'19", long 116°32'45", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.15, T.1 N., R.4 E., San Bernardino County, on left bank 2.8 mi upstream from Antelope Wash and 6.8 mi northwest of Yucca Valley.	15.1	1958-71† 1972-76	--	--	
Lucerne Dry Lake basin							
10260400	Cushenbury Creek near Lucerne Valley, CA	Lat 34°21'52", long 116°50'42", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.14, T.3 N., R.1 E., San Bernardino County, in San Bernardino National Forest, on right bank 0.3 mi upstream from forest boundary, and 9 mi southeast of Lucerne Valley.	6.36	1957-71† 1972-76	--	--	0
Indian Wells Valley basin							
10264780	El Paso Wash near Inyokern, CA	NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.11, T.27S., R.39 E., Kern County, at culvert on U.S. Highway 395, 4.5 mi southeast of Inyokern.	34.6	1976	9-29-76	9.06	136
10264785	El Paso Wash tributary No. 5 near Inyokern, CA	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.11, T.27 S., R. 39 E., Kern County, at culvert on U.S. Highway 395, 4.8 mi southeast of Inyokern.	.25	1976	9-29-76	4.05	16
10264790	El Paso Wash tributary No. 3 near Inyokern, CA	NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.3, T.27S., R.29E., Kern County, at culvert on U.S. Highway 395, 3.6 mi southeast of Inyokern.	1.67	1976	9-29-76	7.79	43
10264795	El Paso Wash tributary No. 4 near Inyokern, CA	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.10, T.27 S., R.39 E., Kern County, at culvert on U.S. Highway 395, 4.0 mi southeast of Inyokern.	.37	1976	9-29-76	4.30	1.4

† Operated as a continuous-record gaging station.

Annual maximum discharge at crest-stage partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum	
						Gage height (feet)	Discharge (ft ³ /s)
Indian Wells Valley basin--Continued							
10264800	El Paso Wash tributary No. 2 near Inyokern, CA	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.3, T.27S., R.39E., Kern County, at culvert on U.S. Highway 395, 3.0 mi southeast of Inyokern.	.42	1976	9-29-76	9.00	31
10264810	El Paso Wash tributary No. 1 near Inyokern, CA	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.3, T.27S., R.39 E., Kern County, at culvert on U.S. Highway 395, 2.7 mi southeast of Inyokern.	.48	1976	9-29-76	3.93	8.6
10264820	Little Dixie Wash near Inyokern, CA	Lat 34°38'04", long 117°47'06", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.33, T.26 S., R.39E., Kern County at culverts on U.S. Highway 395, 1.7 mi southeast of Inyokern.	213	1975-76	9-29-76	7.24	59
10264878	Ninemile Creek near Brown, CA	Lat 35°50'35", long 117°55'35" (unsurveyed), Inyo County, on left bank 600 ft upstream from Los Angeles aqueduct and 6.4 mi northwest of Brown.	10.4	1961-71† 1972-76	Unknown	4.11	1.12
Santa Monica Creek basin							
11119540	Santa Monica Creek at Carpinteria, CA	Lat 34°24'51", long 119°31'32", in Pueblo Lands of Santa Barbara, Santa Barbara County, on right bank of Foothill Road (Hwy 192), 1.0 mi northwest of Carpinteria.	3.64	1969 1972-76	2-9-76	1.44	58
San Ysidro Creek basin							
11119660	San Ysidro Creek at Montecito, CA	Lat 34°26'46", long 119°37'17", in Pueblo Lands of Santa Barbara, Santa Barbara County, on right bank 0.5 mi north of intersection of San Ysidro and East Valley Roads, Montecito.	3.07	1969 1972-76	2-9-76	20.65	52
Sycamore Creek basin							
11197000	Sycamore Creek at Santa Barbara, CA	Lat 34°25'45", long 119°40'35", in Pueblo Lands of Santa Barbara, Santa Barbara County, on left bank at intersection of Sycamore Canyon Road and Alameda Padre Serra in Santa Barbara.	3.41	1971-72† 1973-76	2-9-76	2.72	265
Mission Creek basin							
11119740	Mission Creek at Santa Barbara, CA	Lat 34°27'09", long 119°42'30", in Pueblo Lands of Santa Barbara, Santa Barbara County, on left bank 0.4 mi north of intersection of Foothill Road (Hwy 192) and Mission Canyon Road, 0.8 mi north of Santa Barbara.	2.78	1972-76	2-9-76	16.82	150
Atascadero Creek basin							
11119900	Atascadero Creek at Puente Road, near Goleta, CA	Lat 34°25'56", long 119°47'00", in Pueblo Lands of Santa Barbara, Santa Barbara County, on right bank of Puente Drive, 0.4 mi south of Hollister Avenue, and 2.4 mi east of Goleta.	3.86	1971-72† 1973-76	2-9-76	1.81	146
Santa Ynez River basin							
11128700	Thumbelina Creek at Buellton, CA	Lat 34°36'37", long 120°11'01", in San Carlos De Jonata Grant, Santa Barbara County, on right side of channel on north side of State Highway 246, 0.6 mi east of Buellton.	3.07	1972-76	9-28-76	6.12	52

† Operated as continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drain- age area (mi ²)	Period of record	Date	Annual maximum	
						Gage height (feet)	Discharge (ft ³ /s)
Santa Ynez River basin--continued							
11131700	Santa Rita Creek nr Lompoc, CA	Lat 34°38'41", long 120°22'09", in Santa Rita Grant, Santa Barbara County, on left bank 2.4 mi from mouth and 6.5 mi east of Lompoc.	14.1	1976	2-10-76	6.22	70
11133700	Purisima Creek near Lompoc, CA	Lat 34°41'34", long 120°25'51", in Purisima Grant, Santa Barbara County, on right bank, 1.1 mi northeast of junction of Buener Road and Lompoc-Casmalia Road, 4.0 mi northeast of Lompoc.	4.75	1972-75‡ 1976	2-10-76	1.64	21
11135200	Rodeo-San Pasqual Creek nr Lompoc, CA	Lat 34°38'42", long 120°30'57", in Lompoc Grant, Santa Barbara County, on left bank 0.1 mi east of Dewolf Avenue and at Highway 246, 3.3 mi west of Lompoc.	7.80	1971-72‡ 1973-76	2-10-76	1.49	28

‡ Operated as a continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES
DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1976

619

Stream	Tributary to	Location	Drain- age area (mi ²)	Measured pre- viously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Salton Sea Basin						
Barton Creek	Salton Sea	Lat 33°26'48", long 116°09'59", Riverside County, 1.3 mi north of the Riverside-San Diego County line and 4.7 mi southwest of Oasis.	5.29		9-10-76	2,280
Carrizo Creek	Dead Indian Creek	Lat 33°39'41", long 116°24'10", Riverside County, 0.9 mi up- stream from junction with Dead Indian Creek and 4 mi southwest of Palm Desert.	5.00		9-10-76	2,820
Dead Indian Creek	Deep Creek	Lat 33°40'07", long 116°25'09", Riverside County, 0.9 mi up- stream from the crossing with State Highway 74 and 4 mi south- east of Palm Desert.	9.02		9-10-76	8,900
Edwards Creek	Salton Sea	Lat 33°24'24", long 116°09'38", San Diego County, 1.4 mi south of the Riverside-San Diego County line and 6.9 mi south- west of Oasis.	7.11		9-10-76	4,490
Martinez Creek	Salton Sea	Lat 33°30'50", long 116°12'46", Riverside County, just below confluence with Agua Alta Canyon, 6 mi north of River- side-San Diego County line, and 4.2 mi southwest of Valerie.	48.8		9-10-76	21,400
Myer Creek	Coyote Wash	Lat 32°42'20", long 116°03'08", in SW ¹ / ₄ NE ¹ / ₄ sec.10, T.17 S., R.9 E., Imperial County, 900 ft upstream from the bridge over the eastbound lane of Fwy I-8 and 4 mi southwest of Ocotillo.	17.3		9-10-76	17,500
Sheep Creek	Salton Sea	Lat 33°27'33", long 116°10'12", Riverside County, 2.2 mi north of the Riverside-San Diego County line and 4.3 mi south- west of Oasis.	6.5		9-10-76	1,700

GROUND WATER
LOS ANGELES COUNTY

344421118282201. Local number, 8N/15W-33G1 S.

LOCATION.--Lat 34°44'21", long 118°28'22", west of Fairmont.

Owner: Fairmont Farms.

AQUIFER.--Alluvium.

WELL CHARACTERISTICS.--Drilled domestic water-table well, diameter 12 in (30 cm), depth 400 ft (122 m), previously reported 282 ft (86 m), cased with steel.

DATUM.--Altitude of land-surface datum is 2,930 ft (893 m) above mean sea level.

REMARKS.--Records prior to 1968 furnished by California State Department of Water Resources.

PERIOD OF RECORD.--January 1946 to April 1950, June 1953 to April 1963, April 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 194.00 ft (59.13 m) below land-surface datum, Jan. 23, 1946; lowest measured, 284.00 ft (86.56 m) below land-surface datum, Nov. 12, 1959.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 11	227.57										

340535117573501. Local number, 1S/10W-7R2 S (Key Well U.S. 75).

LOCATION.--Lat 34°05'35", long 117°57'35", Baldwin Park.

Owner: Los Angeles County Flood Control District.

AQUIFER.--Fine sand to coarse gravel in alluvial deposits.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 16 in (41 cm), depth 200 ft (61 m), perforated 74 to 174 ft (23 to 53 m), 181 to 196 ft (55 to 60 m).

DATUM.--Altitude of land-surface datum is 387 ft (118 m) above mean sea level.

PERIOD OF RECORD.--1903 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 56.0 ft (17.1 m) below land-surface datum, May 19, 1916; lowest measured, 177.93 ft (54.23 m) below land-surface datum, Oct. 5, 1965.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL										
OCT 28	162.46	DEC 23	162.85	FEB 23	164.23	APR 23	160.90	JUN 22	165.46	AUG 24	171.53
NOV 17	162.84	JAN 26	163.38	MAR 25	162.32	MAY 25	160.93	JUL 21	169.82	SEP 20	171.90

335506118083201. Local number, 3S/12W-8L3 S.

LOCATION.--Lat 33°55'06", long 118°08'32", near Downey.

Owner: Los Angeles County Farm.

AQUIFER.--Gaspur water-bearing zone of Holocene age and underlying deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in (20 cm), depth 248 ft (76 m), cased with steel.

DATUM.--Altitude of land-surface datum is 92 ft (28 m) above mean sea level.

PERIOD OF RECORD.--January 1930 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.45 ft (4.40 m) below land-surface datum, Mar. 20, 1930; lowest measured, 83.69 ft (25.51 m) below land-surface datum, Aug. 27, 1962.

COOPERATION.--Records were furnished by San Gabriel Valley Protective Association.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL										
OCT 6	66.0	DEC 1	65.1	FEB 2	65.0	APR 5	65.0	JUN 7	66.1	AUG 2	67.5
NOV 3	65.5	JAN 5	64.9	MAR 1	64.0	MAY 3	64.6	JUL 5	66.9	SEP 6	67.3

GROUND WATER

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LOS ANGELES COUNTY--CONTINUED

344929118124401. Local number, 4S/13W-14L1 S.

LOCATION.--Lat 34°49'29", long 118°12'44", Long Beach.

Owner: Southern California Edison Co., Ltd.

AQUIFER.--Gasper water-bearing zone of Holocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in (25 cm), depth 116 ft (35 m), previously reported 114 ft (35 m), perforated 90 to 116 ft (27 to 35 m).

DATUM.--Land-surface datum is 28.55 ft (8.70 m) above mean sea level.

PERIOD OF RECORD.--February 1930 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.62 ft (6.28 m) below land-surface datum, Apr. 5, 1941; lowest measured, 73.86 ft (22.51 m) below land-surface datum, Sept. 22, 1971.

COOPERATION.--Records were furnished by city of Long Beach.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL										
OCT 22	56.82	DEC 17	56.87	FEB 18	56.62	APR 21	58.42	JUN 16	56.32	AUG 25	56.32
NOV 5	57.02	JAN 7	56.77	MAR 17	57.52	MAY 19	61.62	JUL 21	56.22	SEP 22	56.12

334905118124601. Local number, 4S/13W-23G2 S.

LOCATION.--Lat 33°49'05", long 118°12'46", near Long Beach.

Owner: City of Long Beach.

AQUIFER.--Gravel in uppermost part of Silverado water-bearing zone of Pleistocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 26 to 16 in (66 to 41 cm), depth 1,074 ft (327 m), perforated 650 to 900 ft (198 to 274 m).

DATUM.--Land-surface datum is 23.23 ft (7.08 m) above mean sea level.

PERIOD OF RECORD.--October 1932 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 52.93 ft (16.13 m) below land-surface datum, Feb. 6, 1939; lowest measured, 131.75 ft (40.15 m) below land-surface datum, Jan. 20, 1953.

COOPERATION.--Records were furnished by city of Long Beach.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL										
OCT 22	124.08	DEC 17	119.18	FEB 18	121.28	APR 21	123.48	JUN 23	122.58	AUG 25	122.18
NOV 19	121.68	JAN 21	120.78	MAR 17	122.58	MAY 19	123.68	JUL 21	122.68	SEP 22	121.58

ORANGE COUNTY

334837118040001. Local number, 4S/11W-19K1 S.

LOCATION.--Lat 33°48'37", long 118°04'00", near Los Alamitos.

Owner: Los Alamitos Sugar Co.

AQUIFER.--Deposits of Pleistocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in (30 cm), depth 460 ft (140 m), previously reported 448 ft (137 m), perforated 440 to 460 ft (134 to 140 m).

DATUM.--Land-surface datum is 28.50 ft (8.69 m) above mean sea level.

PERIOD OF RECORD.--1901, August 1903, September 1929 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level flowing, 1901; lowest measured, 73.53 ft (22.41 m) below land-surface datum, July 22, 1957.

COOPERATION.--Records were furnished by city of Long Beach.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL										
OCT 28	48.08	DEC 18	44.58	FEB 18	40.98	APR 26	46.38	JUN 15	55.98	AUG 25	58.98
NOV 19	44.38	JAN 20	45.08	MAR 16	41.18	MAY 18	47.18	JUL 20	58.88	SEP 21	52.08

GROUND WATER
RIVERSIDE COUNTY

340039116105701. Local number, 2S/8E-7K1 S (Stokes No. 2).
LOCATION.--Lat 34°00'39", long 116°10'57", in narrow valley east of Hidden Valley at west side of Lost Horse Valley.
Owner: National Park Service.
AQUIFER.--Residuum.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in (20 cm), depth 290 ft (88 m).
DATUM.--Altitude of land-surface datum is 4,100 ft (1,250 m) above mean sea level.
PERIOD OF RECORD.--November 1961 to current year.
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 202.52 ft (61.73 m) below land-surface datum, Sept. 10, 1962; lowest measured, 226.86 ft (69.14 m) below land-surface datum, Nov. 4, 1976.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 13	225.56	MAR 25	226.00								

335612115243301. Local number, 3S/15E-4J1 S (Kaiser No. 2).
LOCATION.--Lat 33°56'12", long 115°24'33", east end of Pinto basin near Kaiser Steel Co.'s Eagle Mountain wells.
Owner: National Park Service.
AQUIFER.--Alluvium.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 16 in (41 cm), depth 575 ft (175 m), perforated 250 to 520 ft (76 to 158 m).
DATUM.--Land-surface datum is 1,080.6 (329.4 m) above mean sea level.
PERIOD OF RECORD.--December 1954 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 150.00 ft (45.72 m) below land-surface datum, Dec. 4, 1954; lowest measured, 168.91 ft (51.48 m) below land-surface datum, Nov. 4, 1976.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 12	160.00C	MAR 25	168.25C								

334712115485601. Local number 4S/11E-27Q1 S (Cottonwood Well).
LOCATION.--Lat 33°47'12", long 115°48'56", in Smoketree Wash 3.5 mi (5.6 km) north of Cottonwood Spring.
Owner: National Park Service.
AQUIFER.--Alluvium.
WELL CHARACTERISTICS.--Drilled public-supply water-table well, diameter 12 in (30 cm) 0 to 232 ft (71 m), perforated 212 to 228 ft (65 to 69 m), diameter 10 in (25 m), preperforated 208.75 to 402.75 ft (63.63 to 122.76 m), depth 403 ft (123 m).
DATUM.--Altitude of land-surface datum is 2,975 ft (907 m) above mean sea level.
PERIOD OF RECORD.--November 1958 to October 1961, March 1963 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 170.29 ft (51.90 m) below land-surface datum, Mar. 12, 1959; lowest measured, 191.89 ft (58.49 m) below land-surface datum, June 15, 1972.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 12	186.26	MAR 25	185.90								

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

LOCAL IDENTIFIER	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORPTION RATIO	
004S011E27Q01S	75-11-12	400	21.0	110	0	33	7.0	38	42	1.6	
DATE OF SAMPLE	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SI02) (MG/L)	DIS-SOLVED SOLIDS (SUM OF TUENTS) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED PLUS BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
75-11-12	1.5	139	114	24	39	2.3	21	235	.14	120	50

C Nearby well being pumped.

GROUND WATER

623

SAN BERNARDINO COUNTY

340717117194601. Local number, 1N/4W-32N1 S (Baseline Well).

LOCATION.--Lat 34°07'17", long 117°19'46", northwest of San Bernardino.

Owner: City of San Bernardino.

AQUIFER.--Alluvium of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 20 in (51 cm), depth 581 ft (177 m), perforated 126 to 184 ft (38 to 56 m), 224 to 232 ft (68 to 71 m), 262 to 304 ft (80 to 93 m), 312 to 372 ft (95 to 113 m), 468 to 476 ft (143 to 145 m), 540 to 560 ft (165 to 171 m), cased with steel.

DATUM.--Land-surface datum is 1,184.8 ft (361.1 m) above mean sea level.

PERIOD OF RECORD.--July 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 49.10 ft (14.96 m) below land-surface datum, Mar. 6, 1947; lowest measured, 247.1 ft (75.3 m) below land-surface datum, Aug. 27, 1968.

COOPERATION.--Records were furnished by San Bernardino Municipal Water Department.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL										
NOV 17	N	JAN 23	175.81	MAR 11	170.21	MAY 20	217.51A	JUL 21	221.61A	SEP 13	220.31A
DEC 24	169.51	FEB 11	171.11	APR 23	216.81A	JUN 26	221.91A	AUG 27	224.81A		

340328117185001. Local number, 1S/4W-29H2 S (Flume 1).

LOCATION.--Lat 34°03'28", long 117°18'50", south of Colton.

Owner: Riverside Water Co.

AQUIFER.--Alluvium of Pleistocene and Holocene age.

WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 20 in (51 cm), depth 189 ft (58 m), perforated 43 to 70 ft (13 to 21 m), 83 to 97 ft (25 to 30 m), 131 to 169 ft (40 to 52 m), cased with steel.

DATUM.--Land-surface datum is 934.4 ft (284.8 m) above mean sea level.

PERIOD OF RECORD.--June 1928 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.90 ft (0.88 m) below land-surface datum, Apr. 8, 1938; lowest measured, 127.40 ft (38.83 m) below land-surface datum, Oct. 30, 1964.

COOPERATION.--Records were furnished by owner.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1	65.59	DEC 2	64.19	FEB 4	56.09	APR 1	59.09	JUN 1	67.89	AUG 1	71.49
NOV 4	65.19	JAN 7	65.19	MAR 1	49.49	MAY 11	64.19	JUL 27	71.49	SEP 1	76.39

A Well being pumped.
 N No measurement.

GROUND WATER
SAN DIEGO COUNTY

332018117080701. Local number, 10S/2W-6F2 S.

LOCATION.--Lat 33°20'18", long 117°08'07", Monserate Narrows, near gaging station.

Owner: San Luis Rey Ranch.

AQUIFER.--Alluvium of Holocene age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 12 in (30 cm), depth 109 ft (33 m), cased with steel.

DATUM.--Land-surface datum is 282.76 ft (86.18 m) above mean sea level.

REMARKS.--Published measurements prior to 1951 are for well 10S/2W-6F6.

PERIOD OF RECORD.--January 1951 to March 1973, January 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.92 ft (2.11 m) below land-surface datum, Mar. 11, 1969; lowest, dry, Aug. 13, 1962, Aug. 17, 1964.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL						
NOV 6	11.64	JAN 21	9.05	MAR 30	7.60	JUL 29	14.72A				
DEC 10	9.58	MAR 4	7.36	JUN 16	12.36A	SEP 3	15.80A				

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

LOCAL IDENTIFIER	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	HARDNESS (CA, MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO
0105002W06F02S	76-07-09	1450	20.5	540	310	140	47	99	28	1.8

DATE OF SAMPLE	DIS-SOLVED PHOSPHATE (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CALCO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
76-07-09	11	279	229	270	180	.2	28	915	.46	110	20

A Pumping.

SANTA BARBARA COUNTY--Continued

345616120231001. Local number, 10N/33W-19B1 S.

LOCATION.--Lat 34°56'16", long 120°23'10", Battles and East Stowell Roads, near Santa Maria.

Owner: Owen T. Rice.

AQUIFER.--Alluvium and Paso Robles Formation of Pliocene and Pleistocene age.

WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 16 in (41 cm), depth 307 ft (94 m), perforated 92 to 97 ft (28 to 30 m), 116 to 125 ft (35 to 38 m), 190 to 215 ft (58 to 66 m), 238 to 248 ft (73 to 76 m).

DATUM.--Altitude of land-surface datum is 275 ft (84 m) above mean sea level.

PERIOD OF RECORD.--December 1927, August 1929 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 72.70 ft (22.16 m) below land-surface datum, Apr. 1, 1970; lowest measured, 191.3 ft (58.3 m) below land-surface datum, Aug. 30, 1965.

COOPERATION.--Reported measurements were furnished by Santa Maria Valley Water Conservation District.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL								
OCT 28	140.5G	JAN 13	142.5G	MAR 26	120.70	MAR 29	143.0G	JUL 22	167.5G		

345742120362501. Local number, 10N/35W-7F1 S.

LOCATION.--Lat 34°57'42", long 120°36'25", near Guadalupe.

Owner: M. J. Ellis.

AQUIFER.--Alluvium and Paso Robles Formation of Pliocene and Pleistocene(?) age.

WELL CHARACTERISTICS.--Drilled domestic and irrigation artesian well, diameter 12 in (30 cm), depth 249 ft (76 m), perforated 140 to 145 ft (43 to 44 m), 200 to 225 ft (61 to 69 m).

DATUM.--Altitude of land-surface datum is 48 ft (15 m) above mean sea level.

PERIOD OF RECORD.--August 1929 to August 1936, April 1938 to current year.

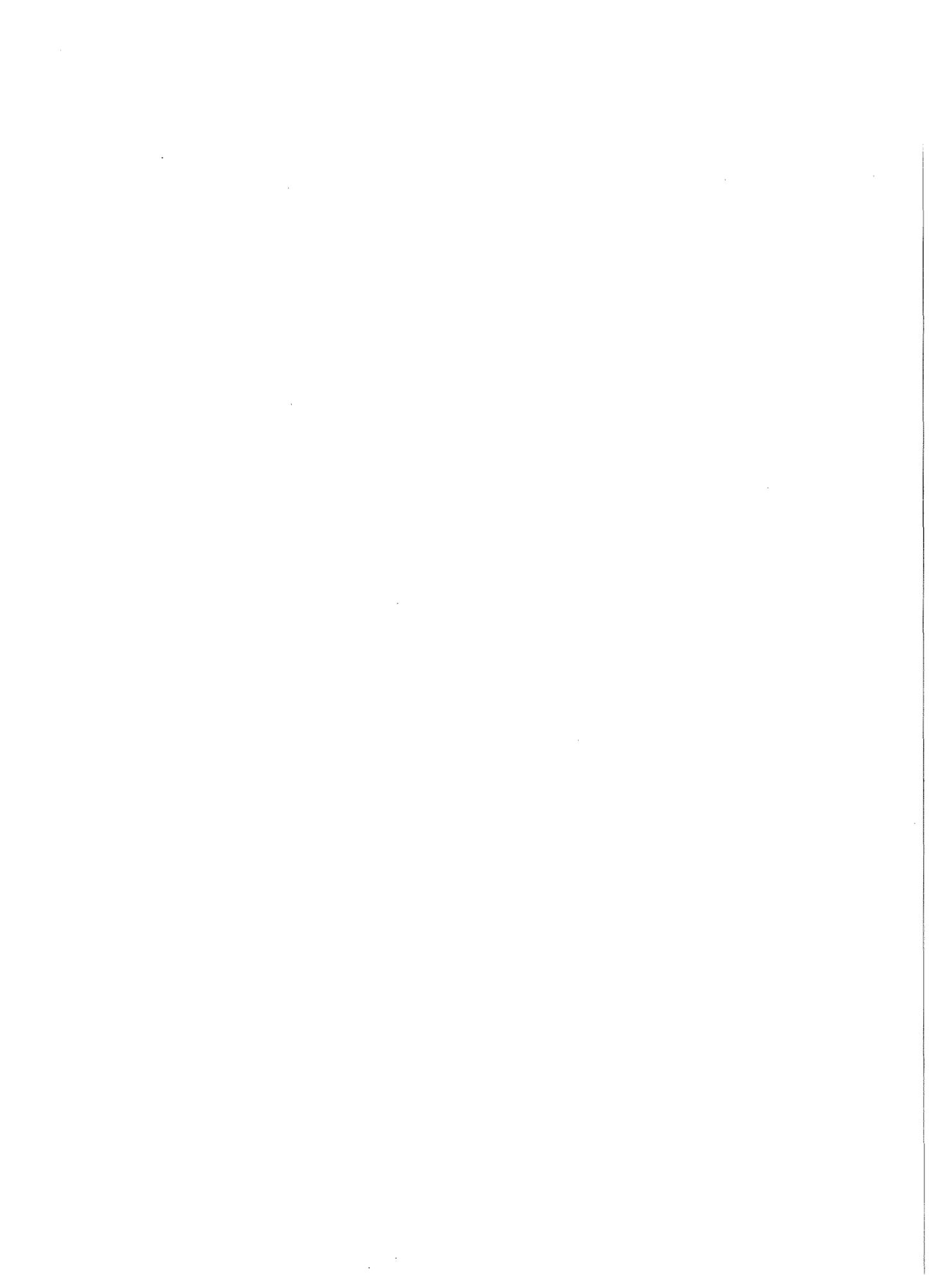
EXTREMES FOR PERIOD OF RECORD.--Highest water level flowing, Jan. 1, 1942, Jan. 1, Feb. 29, Nov. 29, Dec. 28, 1944, Jan. 1, Apr. 1, Dec. 28, 1945, Jan. 1, Dec. 28, 1946, Jan. 7, 1947; lowest measured, 37.40 ft (11.40 m) below land-surface datum, July 1, 1961.

COOPERATION.--Reported measurements were furnished by Santa Maria Valley Water Conservation District.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL								
OCT 29	7.8G	JAN 14	9.2G	MAR 23	8.40	MAR 29	8.2G	JUL 22	10.0G		

G Measurement by another agency.



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FACTORS FOR CONVERTING ENGLISH UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
<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}	*hectares (ha)
	4.047×10^{-1}	square hectometers (hm ²)
	4.047×10^{-3}	square kilometers (km ²)
square miles (mi ²)	2.590×10^0	square kilometers (km ²)
<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 (10 ⁶ gal)	3.785×10^3	cubic meters (m ³)
	3.785×10^{-3}	cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1	cubic decimeters (dm ³)
	2.832×10^{-2}	cubic meters (m ³)
cfs-days [(ft ³ /s) · d]	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3	cubic meters (m ³)
	1.233×10^{-3}	cubic hectometers (hm ³)
	1.233×10^{-6}	cubic kilometers (km ³)
<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 (mgal/d)	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}	tonnes (t)

*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p.15, 1972 edition.

**The unit liter is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.

U.S. DEPARTMENT OF THE INTERIOR
Geological Survey
855 Oak Grove Avenue
Menlo Park CA 94025

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF THE INTERIOR
INT 413



OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE \$300