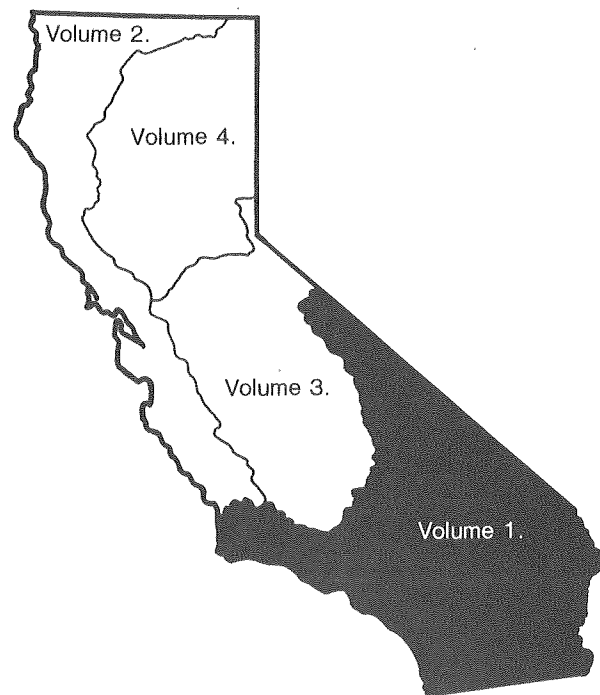


Water Resources Data California Water Year 1984

Volume 1. 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-84-1
Prepared in cooperation with the California Department of
Water Resources and with other agencies

CALENDAR FOR WATER YEAR 1984

1983

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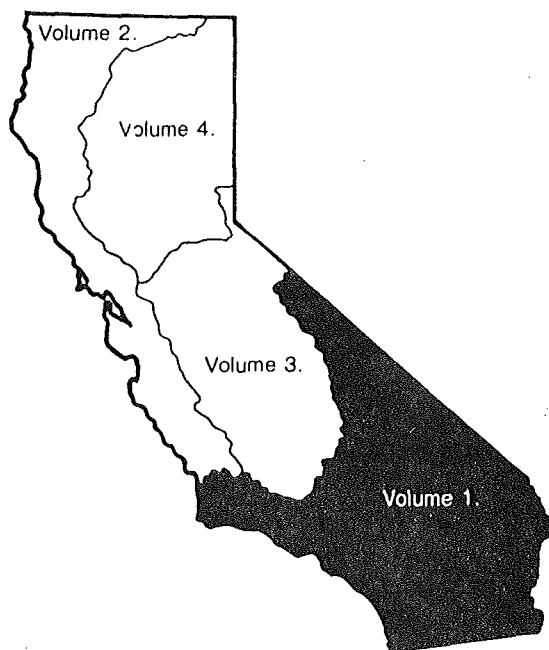
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Water Resources Data California Water Year 1984

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

by J.C. Bowers, M.T. Butcher, C.E. Lamb, K.G. Polinoski, and G.B. Smith



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CA-84-1
Prepared in cooperation with the California Department of
Water Resources and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

DONALD PAUL HODEL, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For information on the water program in California write to
District Chief, Water Resources Division
U.S. Geological Survey
Room W-2234, Federal Building
2800 Cottage Way
Sacramento, California 95825

PREFACE

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

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

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

This report was prepared in cooperation with the California Department of Water Resources and with other agencies under the general supervision of Gilbert L. Bertoldi, District Chief, California.

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16. Abstract (Limit: 200 words) Water resources data for the 1984 water year for California consists of records of stage, discharge, and water quality of streams; stage and contents in lakes and reservoirs; and water levels and water quality in wells. Volume 4 contains discharge records for 152 gaging stations; stage and contents for 25 lakes and reservoirs; water precipitation data for 2 stations; water quality for 9 stations; water levels for 12 and water quality for 46 observation wells. Also included is one low-flow partial-record station and 19 water-quality partial-record stations. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and federal agencies in California.			
17. Document Analysis a. Descriptors *California, *Hydrologic data, *Surface water, *Water quality, *Ground water, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical Analyses, Sediment, Water temperatures, Sampling sites, Water levels, Water analyses. b. Identifiers/Open-Ended Terms c. COSATI Field/Group			
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WATER RESOURCES DIVISION

California District

E. Jerre McClelland, Assistant District Chief for Hydrologic Data

Robert J. Longfield, Operations Chief, Southern Area

Jeffrey Agajanian, Hydrologic Technician
Louis A. Caldwell, Hydrologic Technician
Frank A. Carson, Hydrologic Technician
Daniel J. Downing, Hydrologic Technician
Karen T. Downing, Data Management Assistant
Ronald G. Fay, Hydrologic Technician
Allan D. Flowers, Hydrologic Technician
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SURFACE-WATER AND WATER-QUALITY STATIONS
IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

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

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WATER RESOURCES DATA FOR CALIFORNIA, 1984

Volume 1

INTRODUCTION

Water-resources data for the 1984 water year for California consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and records of water levels in selected observation wells. Records for a few pertinent streamflow and water-quality stations in bordering States are also included. 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, 604 South Pickett Street, Alexandria, Virginia 22304.

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 together 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-84-1." For archiving and general distribution, the reports for water years 1971-74 are also identified as water-data reports. Water-data reports are for sale, in paper copy or in microfiche, by the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the District Chief at the address given on the back of the title page or by telephone (916) 978-4668.

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 Boating and Waterways, William H. Ivers, Director.
 California Department of Water Resources, David N. Kennedy, Director.
 California Regional Water Resources Control Board-Lahontan Region,
 Robert S. Dodd, Senior Civil Engineer.
 Carpinteria County Water District, Robert R. Lieberknecht, General Manager/
 Secretary.
 Casitas Municipal Water District, Robert N. McKinney, General Manager-Chief
 Engineer.
 Coachella Valley Water District, Lowell O. Weeks, General Manager-
 Chief Engineer.
 Crestline-Lake Arrowhead Water Agency, William Huckell, General Manager.
 Desert Water Agency, Paul G. Payne, General Manager.
 East Valley Water District, Larry W. Rowe, General Manager-District Engineer.
 Goleta Water District, Lloyd C. Fowler, General Manager-Chief Engineer.
 Imperial County Department of Public Works, S. Harry Orfanos, Director of
 Public Works.
 Imperial Irrigation District, Charles L. Shreves, General Manager.
 Indian Wells Valley Water District, James H. Stramler, General Manager.
 Inyo County Department of Water, Gregory L. James, Director.
 Los Angeles Department of Water and Power, Duane L. Georgeson, Chief Engineer.
 Mojave Water Agency, Jon D. Edson, General Manager.
 Montecito Water District, Charles C. Evans, General Manager-Chief Engineer.
 Newport Beach, City of, John Walter, Senior Civil Engineer.
 Orange County Environmental Management Agency, Murray I. Storm, Director.
 Orange County Water District, Neil M. Cline, Secretary Manager.
 Rainbow Municipal Water District, Peter Nieblas, General Manager-Chief Engineer.
 Rancho California Water District, Stan Mills, General Manager.
 Riverside County Flood Control and Water Conservation District, Kenneth L.
 Edwards, Chief Engineer.
 San Bernardino Valley Municipal Water District, G. Louis Fletcher,
 General Manager.
 San Diego, City of, R. W. King, Water Utilities Director.
 San Diego County Department of Planning and Land Use, Walter C. Ladwig,
 Director.
 San Diego County Department of Public Works, R. J. Massman, Director.
 Santa Barbara, City of, Department of Public Works, David H. Johnson,
 Director.
 Santa Barbara County Flood Control and Water Conservation District, James M.
 Stubchaer, Flood Control Engineer.
 Santa Barbara County Water Agency, James M. Stubchaer, Engineer-Manager.
 Santa Maria Valley Water Conservation District, Maurice F. Twitchell, Secretary.
 United Water Conservation District, G. I. Wilde, General Manager and
 Chief Engineer.
 Ventura County Public Works Agency, Arthur Goulet, Director.
 Western Municipal Water District, Howard A. Hicks, General Manager.

Assistance in the form of funds or services was given by the Vandenberg Air Force Base, U.S. Air Force; Corps of Engineers, U.S. Army; Bureau of Indian Affairs, Bureau of Land Management, Bureau of Reclamation, and National Park Service, U.S. Department of the Interior; U.S. Penitentiary, Lompoc, U.S. Department of Justice; Marine Corps and Naval Weapons Center, U.S. Navy.

The following organizations aided in collecting records: California Department of Water Resources; Southern California Edison Company; United Water Conservation District.

SUMMARY OF HYDROLOGIC CONDITIONS

Surface Water

Runoff during the 1984 water year in the area covered by this volume was generally near normal for the entire year and averaged 131 percent of the 1951-80 median. Total runoff, in percent of median, at selected sites in California is shown in figure 1. Runoff at City Creek near Highland (representative of the Santa Ana River basin) was 140 percent of median; at Arroyo Seco near Pasadena (representative of the Los Angeles River basin) 121 percent of median; and at Sespe Creek near Fillmore (representative of the Santa Clara River basin) 126 percent of median. Figure 2 shows the variation in runoff during the 1984 water year and compares the 1984 monthly and annual flow with the median flow for representative streams in southern California.

Precipitation was erratic this year, ranging in the desert area from 54 percent of the 1951-80 normal at Palm Springs to 184 percent at Dagget, but was below normal in much of the coastal area, ranging from 58 percent at San Diego to 64 percent at Los Angeles to 69 percent at Santa Barbara.

The storm of October 1 brought the first significant precipitation to most coastal areas of southern California and produced moderate runoff in most basins. During the entire water year there was no local flooding, no known major mudslides, and no discharges exceeding existing peaks of record on southern California streams.

Ground Water

The geography and geology of southern California are sufficiently complex that a summary of ground-water conditions in the area is difficult. Descriptions of conditions in specific basins and valleys apply only to those areas and cannot be transferred to other areas.

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

In the San Gabriel Valley of Los Angeles County, the net decline of water level in the index well was more than 24 ft in 1984. In the observation well in the Coastal Plain of Los Angeles, a net increase of 1.8 ft was observed. Water levels in three observation wells in the Coastal Plain of Orange County had net changes ranging from -0.52 to 1.11 ft in 1984.

WATER RESOURCES DATA FOR CALIFORNIA, 1984

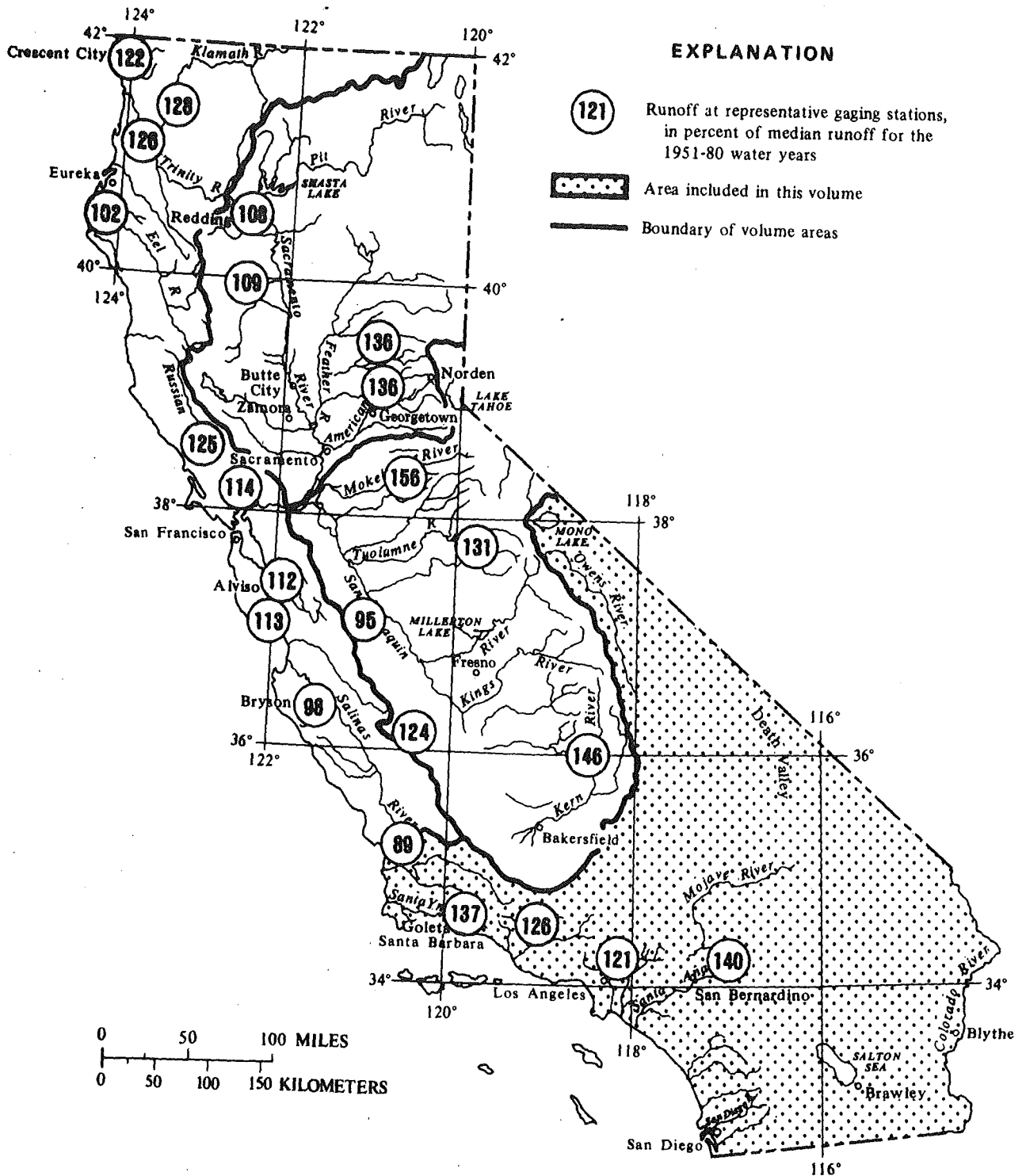


FIGURE 1. — Runoff for the 1984 water year.

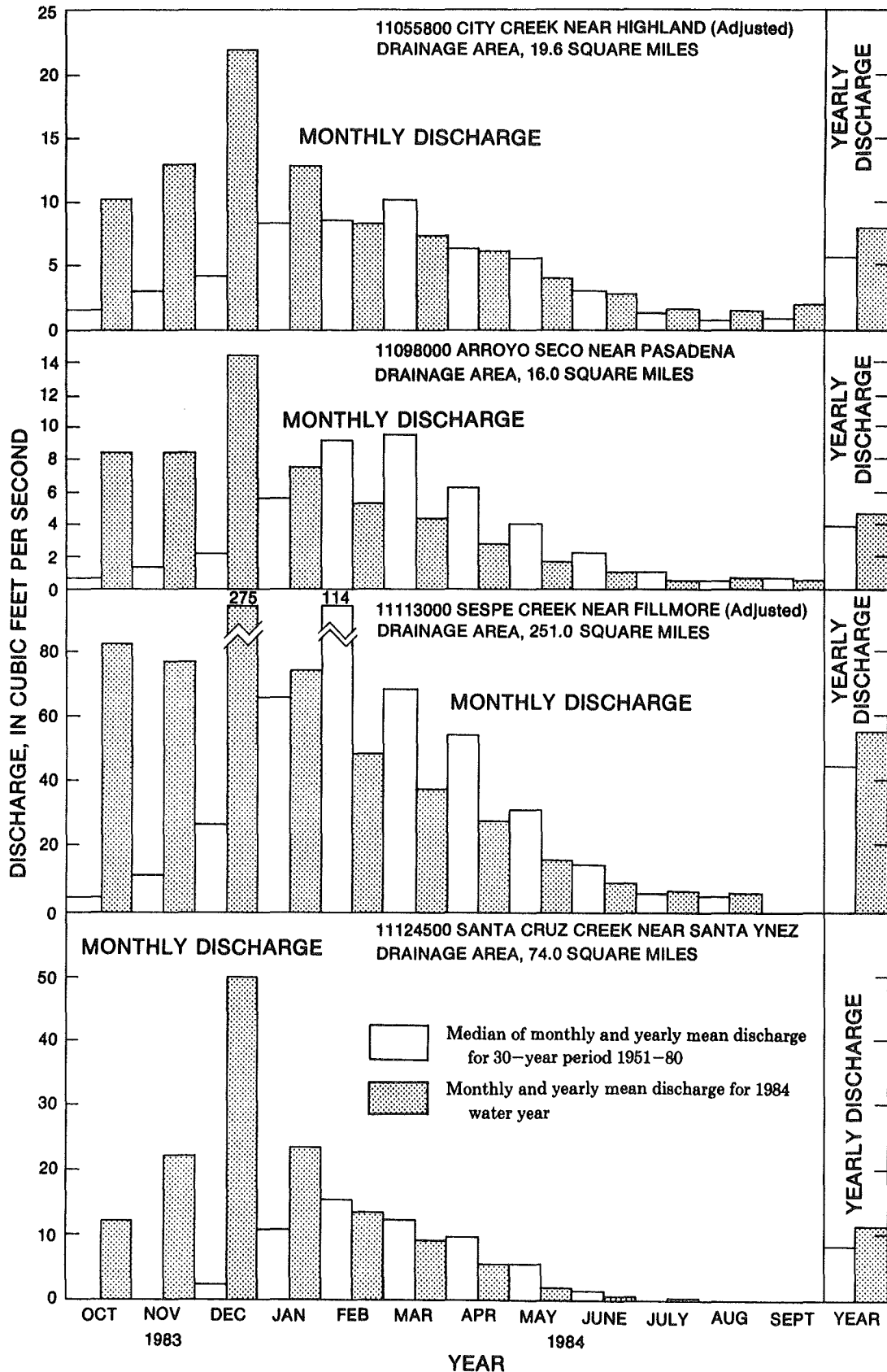


FIGURE 2. — Comparison of 1984 water year discharge with 30-year median discharge at four representative gaging stations.

Water Quality

For the surface-water sites reported in this publication, the chemical quality shows little overall change from previous years. Water quality conditions vary greatly in this part of the State, but the waters are generally of poor quality, and some do not meet public health standards.

Water samples taken at the seven NASQAN stations reported in this volume were analyzed for water-quality constituents during the 1984 water year. Specific conductance (micromhos) varied in range from 244 to 295 in the Owens River below Tinemaha Reservoir, near Big Pine to 4,350 to 7,360 in the New River at International Boundary, at Calexico. Most other sites had a minimum specific conductance value in excess of 560. Median dissolved-solids concentrations of samples collected from these stations indicated an increase from the 1983 water year.

The largest density of fecal-coliform and fecal-streptococci bacteria was found in water sampled from New River at International Boundary, at Calexico and ranged from 61,000 to 2,200,000 col/100 mL and 25,000 to 510,000 col/100 mL. Dissolved-oxygen concentrations at New River were small (0.5 to 7.9 mg/L) and on several occasions concentrations were less than the U.S. Environmental Protection Agency (EPA) minimum concentration to maintain good fish populations (5.0 mg/L). Sulfate concentrations in excess of EPA domestic water supply criterion (250 mg/L) were detected at five of the seven NASQAN stations, with the Alamo River at Drop 3, near Calipatria having the highest range of values from 830 to 1,100 mg/L.

Manganese concentrations in excess of EPA domestic water supply criterion (50 µg/L) also were detected at two of the seven NASQAN stations. New River had the largest median concentration of 73 µg/L.

Sediment

Suspended-sediment discharge and concentration were monitored daily at 14 stations and periodically at 9 stations in the area covered by this volume. The variation in storm patterns and basin characteristics in southern California resulted in significant differences in sediment discharge rates and concentrations at the sampled streams.

During the 1984 water year, sediment discharge was below normal, as indicated by comparison with the 1973-83 mean sediment discharge at three of the daily stations. Annual sediment discharge ranged from 1.2 percent of the mean for San Juan Capistrano to 21 percent for Santa Ana River at Santa Ana.

Annual sediment discharge at the 14 stations monitored daily ranged from 446 ton/yr for Mission Creek at Santa Barbara to 219,000 ton/yr for Santa Clara River at Montalvo. Annual sediment discharge per square mile of drainage area ranged from a minimum of 1.5 tons for San Diego River at Fashion Valley to a maximum of 1,830 tons for San Jose Creek at Goleta.

Maximum rates of sediment discharge at individual stations ranged from 105 ton/d for Mission Creek at Santa Barbara to 105,000 ton/d for Santa Clara River at Montalvo. The volumes of sediment discharged during the highest day was 24 percent of the annual total at Mission Creek and 48 percent of the annual total at Santa Clara River. Maximum daily concentrations ranged from 759 mg/L for San Juan Creek at San Juan Capistrano to 11,200 mg/L for Arroyo Trabuco at San Juan Capistrano.

Monthly and annual bedload discharge were published for 13 of the daily stations. The percentage of annual bedload discharge to total sediment discharge (suspended plus bedload) ranged from 4.3 percent for Mission Creek at Santa Barbara to 52 percent for San Mateo Creek at San Onofre.

DEFINITION OF TERMS

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

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

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

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

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

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

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. For the membrane filter method these bacteria are defined as the organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C \pm 0.5°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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

Fecal-streptococcal bacteria are bacteria found in intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. For the membrane filter method they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C \pm 0.5°C on KF Streptococcus agar (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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

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

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

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

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

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

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

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

Bottom material: See Bed material.

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

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

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

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

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

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

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

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

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

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

Cubic foot per second (ft^3/s), 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 fluid plus suspended sediment), that passes a given point within a given period of time.

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

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

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

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

$$\bar{d} = \frac{s}{\sum_{i=1}^s} \frac{n_i}{n} \log^2 \frac{n_i}{n},$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Micrograms per gram (UG/G, $\mu\text{g/g}$) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by 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.

Plankton (continued)

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 into 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 or 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 chemicals and biochemical precipitates and decomposed organic material such as humas. The quantity, characteristics, and cause of occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

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

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

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

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

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

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

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

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

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

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

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

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

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

Substrate is the physical surface upon which an organism lives.

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

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

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

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

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

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

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

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

Suspended, total (continued)

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

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

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

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

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

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

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

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

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

Turbidity of a sample is the reduction of transparency due to the presence of particulate matter. In this report it is expressed in Nephelometric turbidity units (NTU), obtained from the Nephelometric method for turbidity determination which measures the intensity of light scattered by suspended particles at 90 degrees from the path of incident light source (see also p. 27).

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

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

DOWNSTREAM ORDER AND STATION NUMBER

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

As an added means of identification, each surface-water station, water-quality station, and partial-record station has been assigned a station number. These are in the same downstream order as used in this report. In assigning station numbers, no distinction is made between partial-record and continuous-record stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging 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 11105850, which appears just to the left of the station name, includes the 2-digit number "11" plus the 6-digit downstream order number "105850". In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records for California are in Part 10 (The Great Basin), and Part 11 (Pacific slope basins in California). All records for a drainage basin encompassing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

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

The well- and miscellaneous-site number system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells or other sites within a 1-second grid. See figure 3.

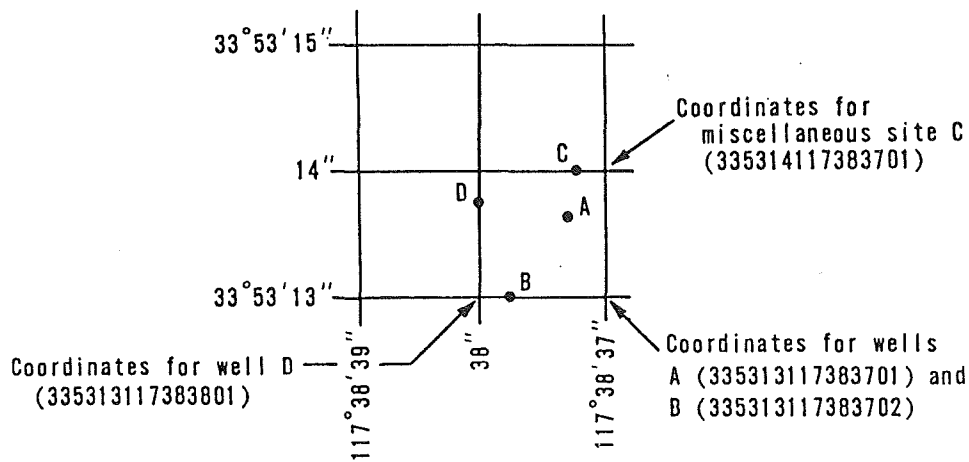


FIGURE 3.--System for numbering wells and miscellaneous sites (latitude and longitude)

Local well numbers

Wells and springs in California are assigned numbers according to their location on the rectangular system for the subdivision of public land. For example, in the number 005S/010E-22G01 M, the part of the number preceding the slash indicates the township (T.5 S.) and the number between the slash and hyphen indicates the range (R.10 E.); the digits following the hyphen indicate the section (sec.22); the letter following the section number indicates the 40-acre subdivision of the section. Within each 40-acre tract, the wells are numbered serially, as indicated by the final digit. The final letter, separated from the rest of the number by a space, indicates the base line and meridian. Base-line and meridian designations are as follows: H, Humboldt, M, Mount Diablo; S, San Bernardino. See figure 4.

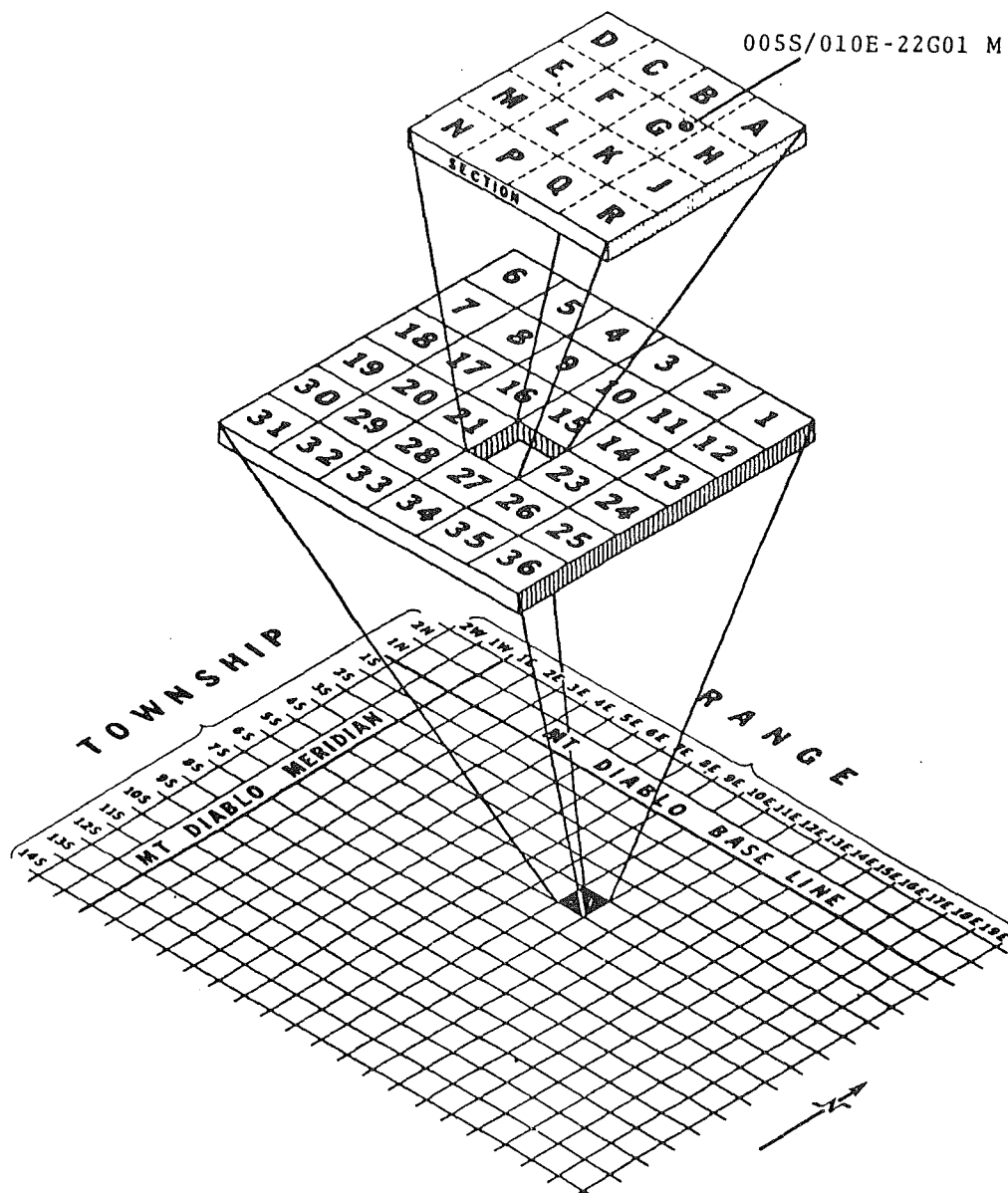


FIGURE 4.--California well-numbering system.

SPECIAL NETWORKS AND PROGRAMS

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

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

Volume 2:

11475560 Elder Creek near Branscomb, CA

Volume 3:

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

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

Volume 1:

10254670 Alamo River at Drop No. 3, near Calipatria, CA
10254970 New River at International Boundary, at Calexico, CA
10277400 Owens River below Tinemaha Reservoir, near Big Pine, CA
11042000 San Luis Rey River at Oceanside, CA
11074000 Santa Ana River below Prado Dam, CA
11103010 Los Angeles River at Willow Street Bridge, at Long Beach, CA
11108500 Santa Clara River at Los Angeles-Ventura County Line, CA

Volume 2:

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

Volume 3:

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

Volume 4:

10356500 Susan River at Susanville, CA
11370500 Sacramento River at Keswick, CA
11447650 Sacramento River at Freeport, CA

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams whose waters are used for irrigation or in 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.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams and canals, and stage and contents of lakes and reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily 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 2175, 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 weirs), velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

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

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

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

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

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise, daily contents may be estimated on the basis of operator's log, prior to 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 discharges 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 "LOCATION" 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 referred to National Geodetic Vertical Datum of 1929, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum is explained in "DEFINITION OF TERMS" on page 11.

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 in the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is also given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance.

Under "EXTREMES" are given": First, the extremes for the period of record; second, information available outside the period of record; and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest-stage gage, 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 CURRENT YEAR; if they are, all independent peaks (including the maximum for the year) above the selected base, with the time of occurrence and corresponding gage heights, are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

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

Footnotes to the table of daily discharges are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days in 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; "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 other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the District Office.

Records of discharge collected by agencies other than
the Geological Survey

Records of discharge not published by the Geological Survey have been collected at numerous sites by many other Federal, State, County, City, and local agencies and by private organizations. A listing of stream-gaging stations and the agencies operating them is published in California Department of Water Resources Bulletin 230-81, "Index to Sources of Hydrologic Data." The National Water Data Exchange, Water Resources Division, U.S. Geological Survey, National Center, Reston, VA 22092, maintains an index of such sites. Information on records at specific sites can be obtained upon request.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

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

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

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

Water analysis

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

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

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

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

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

pH

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

Water temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small daily 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 concentration and particle-size distribution data are determined from samples collected with depth-integrating samplers at one or more verticals across a measuring cross-section. The concentration data are then combined with water discharge data to compute suspended-sediment discharge. Samples of surface bed material are also collected and the particle-size distribution of these samples are published along with the suspended-sediment data. The sampling and computational methods used are in accordance with those described in the U.S. Geological Survey Techniques of Water-Resources Investigations, Book 3, Chapters C1 and C3.

Sediment samples are generally taken on a daily or every other day basis at stations where a daily sediment record is published. 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 sediment and streamflow and 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. 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 for the sediment moving within 0.25 ft (0.076 m) of the stream-bed. Sediment moving in this portion of the flow cannot be sampled with standard suspended-sediment samplers. Calibration of the Helley-Smith sampler has not been completed, and a trap efficiency of 1.0 has been assumed applicable to this device. Error sources in the theoretical methods, based on analysis of bed-material characteristics, channel geometry, and associated hydraulic factors, are also undefined. In consequence, figures of bedload discharge must be used with caution. They are estimates, at best, and are subject to revision.

Turbidity

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

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

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

Each well is identified by means of (1) a 15-digit number that is based on the grid system of latitude and longitude as shown in figure 3, and (2) a local number that is provided for continuity with older reports and for other use as dictated by local needs (fig. 4).

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

Water-level measurements in this report are given in feet with reference to either National Geodetic Vertical Datum of 1929 (NGVD) or land-surface datum (lsd). National Geodetic Vertical Datum is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum referred to National Geodetic Vertical Datum is given in the well description. The height of the measuring point (MP above or below land-surface datum), if known, is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (EOM).

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

In this report basin names and numbers, for example West Salton Sea basin (7-22), are from "California's Ground Water," California Department of Water Resources Bulletin No. 118, 1975, 135 p.

Thirty-seven manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 604 South Pickett St., Alexandria, VA 22304 (authorized agent of the Superintendent of Documents, Government Printing Office).

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

- 1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
- 2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
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- 3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A9. *Measurement of time of travel and dispersion in streams by dye tracing*, by E. F. Hubbard, F. A. Kilpatrick, L. A. Martens, and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1982. 44 pages.
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- 3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
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- 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.
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- 4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
- 4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
- 4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
- 5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.
- 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.
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- 5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
- 7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
- 7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
- 7-C3. *A model for simulation of flow in singular and interconnected channels*, by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.
- 8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.
- 8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

10250800 DARWIN CREEK NEAR DARWIN, CA

LOCATION.--Lat 36°19'14", long 117°31'23", in NW 1/4 SE 1/4 SW 1/4 sec.34, T.18 S., R.41 E., Inyo County, Hydrologic Unit 18090204, on left bank 510 ft downstream from Darwin Falls, 1.6 mi upstream from unnamed tributary, and 5.2 mi northeast of Darwin.

DRAINAGE AREA.--173 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 2,640 ft, from topographic map. Prior to Aug. 6, 1970, at site 190 ft downstream at same datum.

REMARKS.--Records poor. No regulation above station. Town of Darwin pumps water above station for municipal supply.

AVERAGE DISCHARGE.--22 years, 0.41 ft³/s, 297 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,400 ft³/s Jan. 25, 1969, gage height, 8.40 ft, at site then in use, from floodmarks, on basis of slope-conveyance study of peak flow; minimum daily, 0.05 ft³/s Aug. 30 to Sept. 4, 1969, Sept. 10-12, 15, 17, 1980.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, 20.42 ft, present site, from floodmarks, date and discharge unknown.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 10 ft³/s, from rating curve extended above 0.40 ft³/s on basis of slope-area measurement at gage height 6.45 ft, and maximum (*), on basis of slope-area measurement of peak flow:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
July 17	1800	31	5.12	Aug. 15	0200	119	5.50
July 30	1600	*615	6.45	Aug. 21	1815	290	5.93

Minimum daily, 0.06 ft³/s, July 25-27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.64	.34	.64	.64	.24	.47	.24	.64	.24	.24	.25	.18
2	.58	.34	.64	.62	.17	.34	.24	.64	.34	.17	.25	.18
3	.56	.34	.81	.60	.24	.24	.24	.47	.34	.17	.25	.18
4	.52	.34	.81	.58	.24	.24	.24	.64	.34	.12	.25	.18
5	.50	.34	.81	.56	.34	.24	.24	.64	.34	.12	.25	.18
6	.49	.34	.81	.54	.34	.34	.34	.64	.34	.12	.25	.18
7	.47	.34	.81	.52	.34	.34	.34	.64	.34	.12	.25	.18
8	.46	.34	.81	.51	.34	.34	.24	.47	.34	.08	.25	.18
9	.44	.34	.81	.49	.34	.34	.24	.34	.24	.08	.25	.18
10	.43	.34	.64	.48	.34	.47	.24	.34	.34	.08	.25	.18
11	.42	.34	.64	.47	.34	.47	.24	.47	.24	.08	.25	.18
12	.41	.34	.64	.47	.34	.47	.24	.34	.24	.08	.25	.19
13	.40	.34	.64	.47	.34	.34	.24	.47	.24	.17	.25	.19
14	.40	.34	.64	.47	.34	.64	.34	.47	.24	.17	.25	.19
15	.39	.34	.64	.47	.34	.47	.34	.64	.34	.17	1.7	.19
16	.39	.34	.64	.47	.24	.47	.34	.64	.24	.24	.29	.19
17	.38	.34	.81	.47	.24	.47	.34	.64	.24	1.4	.20	.20
18	.38	.34	.81	.47	.24	.47	.47	.64	.24	.24	.20	.20
19	.37	.34	.81	.34	.24	.47	.47	.64	.24	.17	.20	.20
20	.37	.34	.81	.24	.17	.47	.47	.64	.24	.12	.20	.20
21	.36	.34	.81	.24	.17	.34	.34	.81	.24	.12	8.8	.21
22	.36	.47	.81	.24	.17	.34	.34	.81	.24	.17	.25	.21
23	.36	.47	.81	.24	.17	.34	.34	.47	.24	.24	.23	.21
24	.35	.47	.81	.24	.17	.34	.34	.24	.24	.08	.21	.22
25	.35	.47	1.5	.24	.17	.34	.47	.34	.24	.06	.20	.22
26	.35	.47	1.2	.17	.34	.34	.24	.24	.24	.06	.19	.22
27	.34	.47	.94	.17	.34	.24	.24	.24	.24	.06	.18	.22
28	.34	.47	.82	.17	.34	.24	.24	.24	.24	.08	.18	.23
29	.34	.64	.76	.17	.47	.24	.24	.24	.17	.17	.18	.23
30	.34	.64	.71	.17	---	.24	.24	.24	.24	21	.18	.24
31	.34	---	.66	.24	---	.24	---	.34	---	.26	.18	---
TOTAL	12.83	11.71	24.50	12.17	8.10	11.34	9.12	15.26	8.03	26.44	17.07	5.94
MEAN	.41	.39	.79	.39	.28	.37	.30	.49	.27	.85	.55	.20
MAX	.64	.64	1.5	.64	.47	.64	.47	.81	.34	21	8.8	.24
MIN	.34	.34	.64	.17	.17	.24	.24	.24	.17	.06	.18	.18
AC-FT	25	23	49	24	16	22	18	30	16	52	34	12
CAL YR 1983	TOTAL	296.23	MEAN	.81	MAX	160	MIN	.06	AC-FT	586		
WTR YR 1984	TOTAL	162.51	MEAN	.44	MAX	21	MIN	.06	AC-FT	322		

NOTE.--No gage-height record Aug. 17 to Sept. 30.

DEATH VALLEY

10251100 SALT CREEK NEAR STOVEPIPE WELLS, CA

LOCATION.--Lat 36°35'58", long 117°00'46", in NE 1/4 sec.6, T.16 S., R.46 E., Inyo County, Hydrologic Unit 18090203, Death Valley National Monument, on left bank 3.0 mi southeast of intersection of State Highway 190 and Stovepipe Wells Road, and 7.4 mi southeast of Stovepipe Wells Hotel.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1974 to current year.

GAGE.--Water-stage recorder, Parshall flume, and flashboard weir. Flashboard weir installed Feb. 2, 1984. Altitude of gage is -180 ft, from topographic map.

AVERAGE DISCHARGE.--10 years (water years 1975-84), 0.346 ft³/s, 251 acre-ft/yr.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 363 ft³/s Feb. 9, 1976, gage height, 4.81 ft based on slope-conveyance study of peak flow; maximum gage height, 4.87 ft July 22, 1984 (flashboard weir installed); minimum daily, 0.05 ft³/s July 14, 19, Aug. 4-6, 8, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5.0 ft³/s and maximum (*), from rating curve extended above 6.2 ft³/s on basis of theoretical weir formula:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
July 22	2245	*105	4.87	July 29	0545	72	4.39

Minimum daily, 0.07 ft³/s several days during June and July.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.18	.29	.46	.61	.65	.64	.53	.38	.11	.08	.28	.10
2	.17	.29	.46	.60	.65	.63	.53	.37	.11	.08	.23	.12
3	.17	.29	.47	.59	.64	.64	.53	.36	.11	.08	.21	.11
4	.17	.30	.45	.61	.65	.59	.53	.34	.12	.08	.19	.11
5	.17	.30	.43	.62	.65	.57	.50	.31	.12	.08	.16	.11
6	.18	.31	.44	.62	.65	.61	.52	.31	.11	.07	.15	.10
7	.20	.33	.46	.63	.65	.62	.50	.30	.12	.07	.15	.11
8	.20	.30	.47	.63	.66	.62	.51	.31	.11	.07	.15	.11
9	.19	.31	.49	.62	.67	.62	.47	.31	.11	.07	.13	.11
10	.19	.33	.48	.62	.64	.63	.50	.30	.11	.08	.14	.10
11	.19	.33	.50	.61	.63	.63	.48	.28	.11	.08	.14	.10
12	.20	.34	.49	.61	.65	.63	.49	.26	.11	.08	.13	.11
13	.21	.34	.49	.63	.67	.63	.47	.23	.11	.10	.12	.12
14	.20	.33	.51	.61	.64	.61	.45	.21	.11	.08	.12	.12
15	.22	.34	.51	.61	.65	.60	.44	.22	.11	.09	.69	.12
16	.23	.35	.51	.62	.66	.59	.43	.23	.11	.09	.30	.12
17	.23	.36	.52	.63	.59	.57	.40	.23	.10	.10	.19	.12
18	.24	.35	.52	.62	.62	.55	.41	.22	.10	.09	.17	.12
19	.24	.35	.54	.63	.63	.59	.40	.21	.09	.10	.18	.14
20	.24	.37	.54	.63	.62	.60	.39	.19	.08	.09	.17	.13
21	.25	.36	.53	.65	.64	.60	.37	.17	.09	.11	.16	.12
22	.25	.36	.53	.65	.60	.55	.39	.17	.09	12	.18	.11
23	.26	.38	.54	.65	.62	.53	.40	.15	.09	4.7	.15	.11
24	.24	.40	.61	.65	.64	.57	.39	.14	.08	.40	.12	.12
25	.23	.41	1.4	.66	.60	.57	.35	.13	.08	.25	.09	.12
26	.24	.37	.88	.62	.59	.58	.36	.13	.08	.20	.11	.13
27	.25	.39	.78	.60	.62	.49	.38	.12	.08	.18	.11	.13
28	.25	.41	.62	.63	.63	.51	.38	.12	.08	.18	.11	.13
29	.26	.43	.61	.65	.63	.55	.38	.11	.07	26	.11	.12
30	.27	.45	.62	.65	---	.52	.37	.12	.07	3.0	.11	.11
31	.28	---	.63	.65	---	.52	---	.11	---	.43	.10	---
TOTAL	6.80	10.47	17.49	19.41	18.44	18.16	13.25	7.04	2.97	49.11	5.35	3.48
MEAN	.22	.35	.56	.63	.64	.59	.44	.23	.099	1.58	.17	.12
MAX	.28	.45	1.4	.66	.67	.64	.53	.38	.12	.26	.69	.14
MIN	.17	.29	.43	.59	.59	.49	.35	.11	.07	.07	.09	.10
AC-FT	13	21	35	38	37	36	26	14	5.9	97	11	6.9

CAL YR 1983	TOTAL	184.81	MEAN	.51	MAX	31	MIN	.08	AC-FT	367
WTR YR 1984	TOTAL	171.97	MEAN	.47	MAX	26	MIN	.07	AC-FT	341

10252550 CARUTHERS CREEK NEAR IVANPAH, CA

LOCATION.--Lat 35°14'33", long 115°17'58", in NW 1/4 NW 1/4 NE 1/4 sec.6, T.13 N., R.16 E., San Bernardino County, Hydrologic Unit 15030102, on left bank 6.6 mi south of Ivanpah.

DRAINAGE AREA.--1.13 mi².

PERIOD OF RECORD.--October 1963 to September 1981, May 1982 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,640 ft, from topographic map.

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

AVERAGE DISCHARGE.--20 years (water years 1964-81, 1983-84), 0.120 ft³/s, 87 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 814 ft³/s Aug. 12, 1979, gage height, 5.75 ft, from rating curve extended above 2.0 ft³/s, on basis of slope-conveyance studies; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 10 ft³/s and maximum (*), from rating curve extended above 2.0 ft³/s on basis of slope-conveyance studies:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 5	0415	17	1.77	July 25	2400	13	1.65
July 18	0600	37	2.16	Aug. 19	1045	101	2.90
July 21	1000	*671	5.38				

Minimum, no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0		0							0	.17	.03
2	0		0							0	.14	.03
3	0		.05							0	.11	.02
4	0		.04							0	.07	.02
5	2.8		.01							0	.07	.02
6	.33		0							0	.05	.01
7	.29		0							0	.03	.01
8	.25		0							0	.02	.01
9	.07		0							0	.02	0
10	.04		0							0	.09	0
11	.02		0							0	.07	0
12	.01		0							0	.04	0
13	.01		0							0	.02	0
14	.01		0							0	.02	0
15	.01		0							1.8	.44	0
16	0		0							1.5	.09	0
17	0		.14							2.5	.03	0
18	0		.10							2.7	.02	0
19	0		.08							.51	7.7	0
20	0		.06							.21	7.7	0
21	0		.04							38	1.9	0
22	0		.02							17	.80	0
23	0		0							2.8	.44	0
24	0		0							1.2	.20	0
25	0		0							.80	.17	0
26	0		0							3.0	.14	0
27	0		0							.96	.09	0
28	0		0							1.5	.09	0
29	0		0							.97	.05	0
30	0		0							.38	.04	0
31	0		0							.24	.04	---
TOTAL	3.84	0	0.54	0	0	0	0	0	0	76.07	20.86	0.15
MEAN	.12	0	.017	0	0	0	0	0	0	2.45	.67	.005
MAX	2.8	0	.14	0	0	0	0	0	0	38	7.7	.03
MIN	0	0	0	0	0	0	0	0	0	0	.02	0
AC-FT	7.6	0	1.1	0	0	0	0	0	0	151	41	.3
CAL YR 1983	TOTAL	65.13	MEAN	.18	MAX	20	MIN	0	AC-FT	129		
WTR YR 1984	TOTAL	101.46	MEAN	.28	MAX	38	MIN	0	AC-FT	201		

SALTON SEA BASIN

10254005 SALTON SEA NEAR WESTMORLAND, CA

LOCATION.--Lat 33°11'37", long 115°49'54", in NE 1/4 SE 1/4 SW 1/4 sec. 21, T.11 S., R.11 E., Imperial County, Hydrologic 18100200, on western shore at Sandy Beach, and 15.5 mi northwest of Westmorland.

DRAINAGE AREA.--8,360 mi², 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 below National Geodetic Vertical Datum of 1929; gage readings have been converted to elevations below NGVD. See WSP 1734 for history of changes prior to Mar. 2, 1956.

REMARKS.--Bottom of sea is 277.7 ft below NGVD. See WSP 300, 735, and 918 for condensed history of Salton Sea.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 195.9 ft below NGVD, in February and March 1907; minimum since 1906, 251.6 ft below NGVD in November 1924.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 226.8 ft below NGVD, Apr. 12-25, May 1 to June 1; minimum, 227.7 ft below NGVD Nov. 28-30.

MEAN DAILY MONTHEND ELEVATIONS, IN FEET, BELOW NGVD, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Date	Elevation (feet)	Date	Elevation (feet)
Sept. 30.....	227.4	Apr. 30.....	226.9
Oct. 31.....	227.5	May 31.....	226.6
Nov. 30.....	227.7	June 30.....	227.0
Dec. 31.....	227.5	July 31.....	227.1
Jan. 31.....	227.3	Aug. 31.....	227.2
Feb. 29.....	227.1	Sept. 30.....	227.5
Mar. 31.....	226.9		

INFLOW TO SALTON SEA

Salton Sea, located near the northeast corner of Imperial County, is a closed basin consisting of approximately 8,360 mi².

The following table shows monthly and annual inflow to the Salton Sea from the Imperial and Coachella Valleys, in acre-feet, for the water year October 1983 to September 1984 and the annual inflow for the calendar year January to December 1983. Inflow from Imperial Valley is the sum of flows in Alamo River (station 10254730), New River (station 10255500), San Felipe Creek (station 10255885), and 36 drains. Drain inflow furnished by Imperial Irrigation District. Inflow from Coachella Valley is the sum of flows in Whitewater River (station 10259540), Salt Creek (station 10254050), and 24 drains. Drain inflow furnished by Coachella Valley County Water District. Ungaged drains and natural runoff are not included as inflow to the Salton Sea.

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Inflow from												
Imperial Valley 103760	92200	83740	83120	93200	114410	126130	114010	89460	100780	102200	99910	
Coachella Valley 20200	15750	16450	19230	20320	21110	20460	20400	17720	20760	19170	17320	
Total cal yr 1983	1,442,000 ac-ft											
Total wtr yr 1984	1,432,000 ac-ft											

The following table lists the monthly and annual flows, in acre-feet, of the Alamo and New Rivers at the United States-Mexico International Boundary. Data was furnished by Imperial Irrigation District.

FLOW FROM MEXICO AT INTERNATIONAL BOUNDARY

	121	140	150	162	156	182	183	173	150	143	143	134
Alamo River	22770	17230	20460	21170	19440	21460	24670	23950	19080	24250	27100	21060
New River												
Cal yr 1983:	Alamo River	1,910 ac-ft				Wtr yr 1984:	1,840 ac-ft					
Cal yr 1983:	New River	235,730 ac-ft				Wtr yr 1984:	262,640 ac-ft					

10254050 SALT CREEK NEAR MECCA, CA

LOCATION.--Lat 33°26'49", long 115°50'33", in SE 1/4 SW 1/4 sec.28, T.8 S., R.11 E., Riverside County, Hydrologic Unit 18100200, on pier of Southern Pacific Railroad bridge, 0.3 mi upstream from mouth, and 16 mi southeast of Mecca.

DRAINAGE AREA.--269 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is -230 ft, from topographic map.

REMARKS.--Records fair. No regulation or diversion above station. Flow sustained by irrigation seepage.

AVERAGE DISCHARGE.--23 years, 7.84 ft³/s, 5,680 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,900 ft³/s Sept. 24, 1976, gage height, 14.3 ft, from floodmarks, rating curve extended above 20 ft³/s on basis of contracted-opening measurement of maximum flow; maximum gage height, 16.9 ft Mar. 2, 1983, (backwater from Salton Sea and channel vegetation); minimum daily, 0.06 ft³/s Nov. 1, 4, 5, 9, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 258 ft³/s Oct. 5, gage height, 9.50 ft; minimum daily, 1.5 ft³/s May 30, June 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	7.4	10	11	8.6	8.6	6.6	5.9	1.6	2.2	3.5	2.4
2	7.4	7.4	11	9.6	9.6	8.2	6.2	6.2	1.5	2.1	3.2	2.4
3	7.8	7.0	11	9.1	9.6	8.2	6.2	5.9	1.8	2.2	3.2	2.7
4	13	7.0	10	9.6	9.6	8.2	6.6	5.9	2.2	2.1	3.2	2.7
5	53	7.4	9.6	11	8.6	7.4	6.6	5.6	2.9	1.9	2.9	2.2
6	13	7.8	9.1	14	8.2	6.6	7.0	5.0	3.2	2.1	2.4	2.1
7	7.8	8.2	9.6	14	8.2	7.0	7.4	4.6	2.9	2.2	2.2	2.1
8	7.8	8.2	9.6	13	7.8	7.8	7.4	4.2	3.5	2.2	2.7	2.1
9	7.0	7.4	10	12	7.4	8.2	6.6	4.2	3.8	2.2	2.9	2.4
10	6.6	7.4	10	12	7.4	8.2	6.2	3.8	3.5	2.4	2.9	2.9
11	6.2	7.8	9.6	12	7.4	8.2	5.9	3.5	2.7	2.1	2.9	2.9
12	5.3	7.8	9.6	11	7.0	8.2	6.2	3.2	2.7	2.1	2.9	2.4
13	5.3	8.2	9.6	11	7.4	8.6	5.6	3.2	2.7	2.4	2.4	2.4
14	5.9	8.2	9.1	11	8.2	10	5.6	3.2	2.4	3.5	2.4	2.7
15	5.6	7.4	11	10	8.2	9.1	5.6	2.9	2.2	6.2	3.2	2.7
16	5.9	7.8	11	10	8.2	8.6	5.0	2.7	2.4	5.3	4.2	2.9
17	6.2	8.2	10	11	8.6	8.6	5.6	2.9	2.4	4.2	3.8	2.7
18	6.6	9.1	9.1	11	7.8	8.2	5.3	3.5	2.2	3.8	3.8	2.4
19	6.2	8.6	9.6	9.6	7.4	6.6	5.6	3.2	1.9	4.2	3.8	2.4
20	6.2	7.8	9.6	10	7.4	7.0	5.3	3.5	1.9	3.8	4.6	2.7
21	6.2	8.2	9.6	10	7.4	7.0	5.0	3.2	1.8	3.8	5.6	2.7
22	6.2	7.4	9.1	10	8.2	7.0	4.6	2.9	1.9	4.2	5.0	2.7
23	5.9	7.4	9.1	10	8.6	6.2	4.6	2.7	1.8	4.6	4.2	2.9
24	5.9	7.8	9.6	9.6	7.8	6.2	5.0	2.9	1.9	4.6	3.5	2.7
25	5.3	8.6	21	9.6	7.8	7.0	5.0	2.4	2.2	4.6	3.2	2.9
26	4.6	8.6	25	10	8.2	7.4	4.6	2.1	2.4	4.6	3.8	3.2
27	5.0	7.4	15	9.1	7.0	7.4	5.0	2.1	2.1	6.9	4.2	2.9
28	5.6	7.8	13	7.8	7.4	6.2	5.3	1.9	2.1	8.6	3.8	2.9
29	6.2	8.6	10	7.8	8.2	6.2	5.6	1.6	2.1	7.8	3.8	2.9
30	7.0	9.6	9.6	8.2	---	6.6	5.6	1.5	2.4	5.6	2.9	2.7
31	7.0	---	11	8.6	---	6.2	---	1.9	---	4.6	2.4	---
TOTAL	255.5	237.5	340.1	322.6	233.2	234.9	172.8	108.3	71.1	119.1	105.5	78.7
MEAN	8.24	7.92	11.0	10.4	8.04	7.58	5.76	3.49	2.37	3.84	3.40	2.62
MAX	53	9.6	25	14	9.6	10	7.4	6.2	3.8	8.6	5.6	3.2
MIN	4.6	7.0	9.1	7.8	7.0	6.2	4.6	1.5	1.5	1.9	2.2	2.1
AC-FT	507	471	675	640	463	466	343	215	141	236	209	156
CAL YR 1983	TOTAL	8685.5	MEAN	23.8	MAX	2830	MIN	2.3	AC-FT	17230		
WTR YR 1984	TOTAL	2279.3	MEAN	6.23	MAX	53	MIN	1.5	AC-FT	4520		

SALTON SEA BASIN

10254670 ALAMO RIVER AT DROP NO. 3, NEAR CALIPATRIA, CA
(National stream-quality accounting network station)

LOCATION.--Lat 33°06'13", long 115°32'38", on line between secs.19 and 20, T.12 S., R.14 E., Imperial County,
Hydrologic Unit 18100200, on right bank 2.2 mi southeast of Calipatria.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to current year. Records prior to October 1979 in files of the Imperial
Irrigation District.

GAGE.--Water-stage recorder and broad-crested weir. Altitude of gage is -185 ft, from topographic map.

REMARKS.--Records good. Flow is mainly return from irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,940 ft³/s Mar. 3, 1983, gage height, 5.95 ft, from rating
curve extended above 1,000 ft³/s; maximum gage height, 6.93 ft July 22, 1984, (backwater from debris);
minimum daily, 305 ft³/s Feb. 24, 27, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,000 ft³/s July 22, gage height, 6.93 ft, backwater
from debris; minimum daily, 385 ft³/s Jan. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	684	695	710	437	664	779	939	783	651	581	554	640
2	711	673	815	397	668	768	806	805	652	528	547	639
3	679	691	716	391	678	759	872	859	661	561	568	589
4	680	691	622	408	673	741	897	883	656	574	595	561
5	747	692	577	501	627	693	884	859	663	588	622	559
6	724	708	560	551	545	676	930	851	666	615	629	580
7	722	700	562	486	586	749	992	820	610	608	694	604
8	732	660	546	427	640	793	978	828	621	615	650	601
9	701	668	534	405	637	767	820	838	657	615	637	634
10	694	679	531	385	668	774	844	637	629	566	656	682
11	687	683	504	405	644	783	901	807	555	561	724	596
12	683	678	465	422	621	738	931	803	561	595	678	596
13	691	682	473	417	584	758	968	794	586	574	685	615
14	707	593	502	437	626	797	996	757	636	615	681	609
15	730	596	504	448	646	777	987	718	650	636	792	648
16	775	618	511	437	669	794	968	744	615	650	746	667
17	773	666	529	447	698	797	939	796	568	636	691	649
18	766	681	552	475	710	743	844	779	515	622	687	658
19	711	701	492	495	749	731	820	756	528	602	676	675
20	681	680	478	525	712	744	891	754	521	602	754	701
21	712	632	499	594	735	759	894	717	561	595	743	693
22	717	620	524	588	761	764	885	676	595	1600	703	673
23	681	637	578	554	711	776	828	688	650	636	655	709
24	652	654	568	597	760	856	745	690	615	561	622	660
25	612	625	514	618	772	887	805	676	566	509	601	694
26	621	595	475	621	763	899	813	650	574	489	610	726
27	675	622	419	634	745	903	820	663	608	502	597	672
28	725	628	407	655	735	912	828	625	595	643	641	701
29	716	621	399	645	777	922	813	624	602	671	653	729
30	692	652	421	619	---	894	783	680	602	547	667	735
31	685	---	466	637	---	894	---	649	---	534	660	---
TOTAL	21766	19721	16453	15658	19804	24621	26421	23413	18213	19233	20420	19517
MEAN	702	657	531	505	683	794	881	755	607	620	659	651
MAX	775	708	815	655	777	922	996	883	666	1600	792	735
MIN	612	593	399	385	545	676	745	624	515	489	547	559
AC-FT	43170	39120	32630	31060	39280	48840	52410	46440	36130	36150	40500	38710
CAL YR 1983	TOTAL	256294	MEAN	702	MAX	3430	MIN	337	AC-FT	508400		
WTR YR 1984	TOTAL	245240	MEAN	670	MAX	1600	MIN	385	AC-FT	486400		

10254670 ALAMO RIVER AT DROP NO. 3, NEAR CALIPATRIA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969-70, 1975 to current year.

CHEMICAL ANALYSES: Water years 1969-70, 1975-77, 1979 to current year.

BIOLOGICAL DATA: Water years 1979-81.

SPECIFIC CONDUCTANCE: Water years 1969-70, 1975-77, 1979 to September 1984 (discontinued).

WATER TEMPERATURES: Water years 1969-70, 1975-77, 1979 to September 1984 (discontinued).

SEDIMENT RECORDS: Water years 1979 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1981 to September 1984 (discontinued).

WATER TEMPERATURES: March 1981 to September 1984 (discontinued).

INSTRUMENTATION.--Water-quality monitor from March 1981 to September 1984.

REMARKS.--Data for the 1975 and 1976 water years are published with 1977 water year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 6,590 micromhos, Feb. 11, 1983; minimum, 2,890 micromhos, June 26, 27, 1982, May 8, 1984.

WATER TEMPERATURES: Maximum, 32.5°C on several days during July 1984; minimum, 7.5°C Jan. 1, 2, 1983.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 5,530 micromhos, Nov. 9; minimum, 2,890 micromhos, May 8.

WATER TEMPERATURES: Maximum, 32.5°C on several days during July; minimum, 10.0°C Jan. 20, 21.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES-	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED	COLI- FORM, FECAL, 0.7	STREP- TOCOCOCCI KF AGAR
						SURE (MM HG)			(PER- CENT SATUR- ATION)	UM-HF (COLS./ 100 ML)	(COLS. PER 100 ML)
DEC , 1983											
15...	1500	509	4750	8.0	14.5	765	110	9.8	97	6600	17000
MAR , 1984											
22...	1100	745	3690	7.9	19.0	760	180	8.3	91	6300	21000
JUN											
14...	0900	595	3570	7.9	25.5	760	90	7.1	88	16000	3000
SEP											
20...	0700	685	4110	8.0	29.0	760	100	7.0	93	K1600	K2200

DATE	HARD- NESS (HG/L AS CACO3)	HARD- NESS NONCAR- BONATE (HG/L CACO3)	CALCIUM DIS- SOLVED (HG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (HG/L AS MG)	SODIUM, DIS- SOLVED (HG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (HG/L AS K)	ALKA- LITY FIELD (HG/L CACO3)	SULFATE DIS- SOLVED (HG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (HG/L AS CL)
DEC , 1983											
15...	1100	830	210	130	650	57	9	11	234	1100	820
MAR , 1984											
22...	860	650	180	99	580	59	9	11	215	880	590
JUN											
14...	860	630	180	98	470	54	7	13	222	830	590
SEP											
20...	1200	960	240	140	560	51	7	11	222	1000	700

DATE	FLUO- RIDE, DIS- SOLVED (HG/L AS F)	SILICA, DIS- SOLVED (HG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (HG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (HG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (HG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (HG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (HG/L AS N)	PHOS- PHORUS, TOTAL (HG/L AS P)	PHOS- PHORUS, DIS- SOLVED (HG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (HG/L AS P)
DEC , 1983											
15...	.6	11	3220	3100	4.4	9.9	1.2	3.1	.50	.22	.19
MAR , 1984											
22...	.6	11	2530	2500	3.4	8.8	1.6	3.5	1.1	.50	.45
JUN											
14...	.6	13	2440	2300	3.3	4.9	1.0	6.0	.60	.42	.36
SEP											
20...	.6	12	2920	2800	4.0	6.7	.34	2.2	.52	.20	.13

See footnotes at end of table.

SALTON SEA BASIN

10254670 ALAMO RIVER AT DROP NO. 3, NEAR CALIPATATRIA, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM, DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
DEC , 1983										
15...	1500	<10	4	200	<10	<1	1	<1	4	30
MAR , 1984										
22...	1100	10	4	<100	10	<1	<1	<1	4	60
JUN										
14...	0900	10	4	<100	<10	<1	<1	1	3	50
SEP										
20...	0700	10	4	<100	<10	<1	1	—	5	60

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
DEC , 1983											
15...	<1	220	40	<.1	15	2	13	<1	1400	14	10
MAR , 1984											
22...	<1	170	30	<.1	13	4	10	<1	3200	16	20
JUN											
14...	4	190	20	<.1	16	3	8	<1	3100	14	20
SEP											
20...	<1	200	<10	.1	13	—	11	<1	3600	10	10

K Results based on colony count outside the acceptable range (non-ideal colony count).
 < Actual value is know to be less than the value shown.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4320	3880	4010	4580	4050	4420				---	---	---
2	4100	3950	4020	4580	4420	4480				---	---	---
3	4470	4020	4120	4670	4270	4500				---	---	---
4	4570	4000	4090	4740	4290	4430				---	---	---
5	4190	3940	4050	4820	4630	4480				---	---	---
6	4180	4000	4100	4900	4720	4490				---	---	---
7	4190	4000	4100	4940	4540	4420				---	---	---
8	4410	4000	4130	5490	4890	4720				---	---	---
9	4420	4070	4160	5530	4720	4500				---	---	---
10	4540	4100	4320	5200	4790	4480				---	---	---
11	4620	4180	4240	5270	4810	4460				---	---	---
12	4830	4410	4520	5360	4410	4510				---	---	---
13	4590	4400	4510	4580	4170	4480				---	---	---
14	4590	4110	4460	5070	4450	4650				---	---	---
15	4590	4020	4290	5160	4410	4810				---	---	---
16	4550	4000	4280	4950	4440	4630				---	---	---
17	4120	4030	4070	4580	4410	4510				---	---	---
18	4430	4000	4120	4590	4190	4480				---	---	---
19	4590	4120	4430	4580	4100	4380				---	---	---
20	4570	4400	4490	4550	4040	4390				4040	3840	3930
21	4530	4080	4380	4840	4400	4570				3900	3640	3770
22	4490	4080	4280	4870	4410	4620				3800	3630	3720
23	4580	4040	4360	5080	4400	4560				3970	3760	3880
24	4580	4400	4470	4570	4000	4300				4020	3750	3890
25	4980	4490	4740	4550	4080	4360				3970	3750	3850
26	4910	4400	4540	4960	4450	4650				4090	3780	3950
27	4590	4110	4390	4570	4010	4300				4130	3730	3950
28	4550	4130	4450	4190	4000	4120				3900	3760	3840
29	4500	4020	4170	4490	4020	4210				3970	3680	3820
30	4530	4070	4290	4530	4010	4230				4060	3750	3920
31	4560	4410	4480	---	---	---				4120	3870	3970
MONTH	4980	3880	4290	5530	4000	4470				---	---	---

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3990	3670	3840	3810	3490	3620	3570	3330	3430	3620	3450	3520
2	3990	3680	3840	3670	3470	3580	3590	3280	3370	3590	3400	3500
3	3880	3700	3770	3760	3510	3620	3630	3210	3440	3480	3300	3400
4	3940	3660	3780	3700	3550	3620	3560	3330	3440	3440	3320	3380
5	3970	3730	3840	3650	3450	3560	3580	3430	3510	3410	3260	3320
6	4320	3970	4110	3910	3530	3720	3590	3390	3470	3340	3110	3230
7	4320	4040	4180	3790	3480	3640	3470	3230	3340	3200	3080	3140
8	4190	3750	3940	3690	3410	3540	3340	3190	3270	3380	2890	3120
9	4030	3740	3880	3670	3380	3490	3760	3400	3620	3400	3240	3320
10	3930	3510	3740	3630	3430	3540	3760	3480	3640	3500	3310	3400
11	3900	3720	3790	3650	3440	3530	3620	3430	3520	3660	3400	3520
12	3850	3540	3650	3750	3390	3540	3590	3310	3460	3610	3330	3450
13	4160	3620	3870	3900	3720	3830	3440	3280	3370	3540	3330	3440
14	4330	3900	4110	3660	3440	3540	3440	3210	3290	3670	3250	3450
15	4000	3730	3910	3830	3510	3710	3520	3350	3440	3710	3450	3620
16	3960	3610	3750	3650	3440	3570	3680	3340	3490	3660	3360	3490
17	4020	3690	3820	3600	3400	3480	3560	3370	3460	3490	3310	3400
18	3720	3360	3540	3530	3320	3430	3770	3530	3620	3480	3240	3370
19	3680	3420	3530	3720	3330	3500	3780	3570	3670	3470	3160	3350
20	3650	3380	3470	3740	3610	3650	3730	3360	3580	3420	3160	3280
21	3680	3440	3570	3750	3490	3610	3540	3300	3410	3640	3190	3360
22	3580	3370	3470	3790	3540	3660	3530	3370	3480	3610	3320	3500
23	3890	3410	3700	3620	3470	3570	3660	3720	3470	3640	3490	3560
24	3710	3440	3610	3670	3370	3500	4090	3570	3890	3580	3400	3500
25	3720	3540	3610	3570	3310	3450	3900	3510	3650	3590	3370	3500
26	3600	3310	3490	3670	3350	3460	3610	3420	3520	3730	3530	3630
27	3650	3290	3450	3770	3560	3670	3550	3300	3430	3650	3480	3580
28	3830	3520	3680	3570	3320	3490	3390	3240	3300	3770	3610	3680
29	3880	3450	3680	3590	3320	3430	3470	3230	3340	3800	3600	3710
30	---	---	---	3590	3400	3490	3550	3250	3370	3820	3380	3530
31	---	---	---	3560	3280	3410	---	---	---	3670	3530	3600
MONTH	4330	3290	3740	3910	3280	3560	4090	3190	3480	3820	2890	3450
		JUNE			JULY			AUGUST			SEPTEMBER	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3700	3580	3630	3780	3560	3680	4830	---	---	4290	4030	4140
2	3710	3460	3580	4000	3730	3870	---	---	---	4110	3830	3950
3	3630	3370	3510	4160	3890	4000	---	---	---	4180	3520	3880
4	3590	3270	3420	3970	3750	3840	---	---	---	---	---	---
5	3650	3410	3560	3980	3790	3860	---	---	---	---	---	---
6	3530	3280	3390	4110	3700	3870	---	---	---	---	---	---
7	3670	3410	3540	3920	3660	3800	---	---	---	---	---	---
8	3730	3390	3540	3820	3560	3740	4170	3820	3960	---	---	---
9	3490	3300	3400	3810	3540	3640	4230	3910	4050	---	---	---
10	3660	3330	3480	3990	3590	3820	4100	3930	4010	---	---	---
11	3580	3360	3450	4100	3830	3990	4010	3620	3800	4430	4090	4300
12	3720	3510	3630	3940	3710	3850	4100	3690	3890	4700	4020	4350
13	3780	3520	3610	3970	3780	3860	4160	3880	4010	4360	3770	4020
14	3600	3390	3500	3910	3640	3760	4190	3980	4090	4280	4010	4170
15	3550	3290	3420	3990	3500	3760	4190	3660	3950	4270	4020	4130
16	3590	3260	3420	3930	3490	3630	3960	3710	3830	4170	3820	3990
17	3690	3490	3570	3830	3420	3660	4020	3890	3950	4230	4000	4150
18	3830	3640	3720	4000	3640	3840	4280	3640	4040	4270	4030	4150
19	4270	3650	3850	4020	3130	3710	4190	4030	4100	4260	4040	4150
20	3890	3560	3710	4010	3450	3730	4400	3900	4080	4200	3940	4080
21	4020	3530	3700	---	---	---	4510	3910	4110	4210	3950	4070
22	3710	3440	3530	---	---	---	4240	3830	4050	4270	4070	4160
23	3680	3280	3440	---	---	---	4580	4020	4230	4170	3810	3910
24	3480	3250	3350	5170	4580	4710	4600	4190	4450	4170	3790	3960
25	3640	3320	3470	5080	4820	4950	4570	4190	4360	4300	3970	4080
26	3870	3500	3670	5140	4830	4960	4400	4120	4240	4100	3830	3970
27	3760	3520	3620	4880	4570	4710	---	---	---	4270	3950	4080
28	3750	3460	3640	5270	4440	4650	---	---	---	4410	4010	4170
29	3810	3400	3590	4530	4110	4280	4150	3900	4020	4140	3800	3950
30	3800	3550	3700	5240	4170	4440	4170	3950	4050	4200	3740	3950
31	---	---	---	4930	4360	4540	4220	3950	4050	---	---	---
MONTH	4270	3250	3550	---	---	---	---	---	---	---	---	---
YEAR	5530	2890	3860									

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	23.0	22.0	21.0	20.0			---	---	15.0	14.0	16.5	15.0
2	23.0	22.0	21.0	20.0			---	---	15.0	14.5	17.0	15.5
3	24.5	22.0	21.0	20.0			---	---	15.5	14.5	18.0	16.0
4	25.0	22.5	22.0	20.0			---	---	16.0	15.0	17.5	16.5
5	25.5	25.0	22.5	20.5			---	---	16.0	15.0	16.5	15.0
6	25.0	24.5	22.5	21.0			---	---	16.0	15.0	15.5	14.0
7	24.5	23.0	21.0	20.5			---	---	15.5	14.5	16.0	14.0
8	24.5	22.0	21.0	20.0			---	---	15.5	14.5	17.0	15.0
9	25.0	23.0	20.5	17.0			---	---	15.0	14.5	18.0	16.0
10	25.5	24.5	18.0	17.0			---	---	15.0	14.0	18.5	17.0
11	24.5	22.5	18.0	17.0			---	---	15.0	14.0	18.5	17.0
12	23.0	22.0	20.0	17.5			---	---	15.0	13.5	19.5	18.0
13	23.0	22.0	21.0	19.5			---	---	15.0	13.5	19.5	18.0
14	22.0	20.5	19.5	17.5			---	---	16.0	14.5	20.0	18.5
15	22.5	20.5	18.0	17.0			---	---	15.5	15.0	19.0	17.5
16	23.0	21.0	18.0	17.0			---	---	15.0	14.0	18.5	17.5
17	23.0	22.5	18.0	17.0			---	---	14.5	13.0	19.0	17.5
18	23.0	21.0	18.0	17.0			---	---	13.5	12.5	18.5	17.0
19	23.0	22.0	17.5	15.5			---	---	13.0	12.5	18.0	16.5
20	23.0	22.0	16.0	15.0			11.0	10.0	13.5	12.0	19.0	17.0
21	23.0	22.0	16.0	14.5			11.0	10.0	13.5	12.0	20.0	18.0
22	23.0	22.0	14.5	12.5			12.0	10.5	14.0	12.5	19.5	18.5
23	23.0	22.0	14.0	12.0			12.5	11.0	15.0	13.5	19.0	18.0
24	22.5	20.5	14.0	12.5			13.0	11.5	14.5	13.5	19.0	17.5
25	22.0	20.0	15.0	14.0			14.0	12.5	15.0	14.0	19.5	18.0
26	21.0	20.0	14.5	12.0			14.0	13.5	15.0	14.0	19.5	18.0
27	22.5	20.5	12.5	12.0			14.0	12.0	14.0	13.0	18.5	17.0
28	23.0	21.0	13.0	12.0			14.0	13.0	15.0	13.0	18.5	17.0
29	23.0	22.0	13.0	12.0			14.5	13.0	15.5	14.0	19.0	17.5
30	23.0	21.0	13.0	12.0			14.5	13.5	---	---	18.5	17.0
31	22.5	20.5	---	---			15.0	13.5	---	---	19.0	17.5
MONTH	25.5	20.0	22.5	12.0			---	---	16.0	12.0	20.0	14.0
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	16.0	21.5	19.5	27.5	26.5	30.5	29.0	31.5	30.0	32.0	30.5
2	17.5	15.5	22.5	20.5	27.5	25.5	29.5	28.5	31.0	29.5	31.5	30.0
3	19.5	17.0	24.5	22.0	27.0	25.0	31.0	28.5	31.5	29.5	32.0	30.0
4	20.0	18.0	25.0	23.5	26.0	24.5	32.5	30.5	31.5	29.5	32.0	30.5
5	20.0	18.5	24.5	23.5	26.0	24.5	32.5	30.5	31.5	30.5	31.0	29.5
6	20.0	19.0	25.0	23.0	26.0	24.0	32.0	30.5	31.5	29.5	29.5	28.0
7	20.0	18.5	25.0	23.5	24.5	23.0	31.0	30.0	31.5	29.5	29.5	27.5
8	21.0	19.0	25.0	23.0	25.5	23.0	31.0	29.5	32.0	30.0	30.5	28.5
9	20.5	20.0	25.5	23.5	27.5	24.5	32.0	29.5	31.5	30.5	30.5	29.5
10	20.5	19.0	26.0	24.5	27.5	25.5	32.0	30.0	30.0	29.0	30.0	28.5
11	21.5	20.0	25.0	24.0	27.0	25.5	32.0	30.5	30.5	28.0	30.0	29.0
12	22.0	21.0	26.5	24.5	27.5	25.0	32.5	31.0	32.0	30.5	29.5	28.5
13	22.5	21.0	27.0	25.0	27.5	26.0	32.5	31.5	31.5	30.5	30.0	28.5
14	23.0	21.5	27.0	25.5	27.0	25.5	31.5	29.0	30.5	29.5	30.0	28.5
15	23.5	22.0	25.5	23.0	26.0	24.5	30.0	28.0	31.0	29.0	30.0	28.5
16	24.0	22.5	23.5	22.0	27.0	24.5	31.5	29.5	32.0	30.0	30.0	28.5
17	23.5	21.0	25.0	23.0	28.0	25.5	32.0	31.0	31.5	30.5	30.5	29.0
18	21.0	19.5	26.0	24.0	28.5	26.5	31.0	30.0	30.5	29.5	30.5	29.0
19	20.0	18.0	26.5	24.5	28.5	26.5	31.0	29.0	30.0	28.5	30.0	29.0
20	18.5	17.5	27.0	25.5	27.5	26.0	32.0	30.5	30.0	28.5	30.0	28.5
21	19.5	17.5	27.5	25.0	27.5	25.5	31.5	26.5	30.0	27.5	28.5	26.5
22	21.0	19.0	28.0	25.5	27.0	25.5	29.5	25.5	30.5	29.0	27.0	25.5
23	22.0	20.0	28.0	26.0	28.0	25.5	30.5	28.5	31.0	29.5	27.0	25.5
24	23.0	21.0	28.5	26.5	29.0	27.0	31.0	29.5	31.0	30.0	26.5	25.0
25	21.5	19.5	27.5	25.5	30.0	28.0	31.0	29.0	30.0	29.0	25.0	24.5
26	19.5	17.5	28.5	26.0	31.5	29.0	30.5	29.5	30.5	28.5	26.5	24.5
27	18.0	16.5	28.5	27.0	31.0	30.0	30.0	28.5	31.5	29.5	28.0	26.0
28	18.0	17.0	29.5	27.0	30.5	29.5	29.5	28.5	32.0	30.0	28.0	27.0
29	19.0	16.5	29.5	28.0	29.5	28.0	29.0	27.5	32.0	31.0	27.5	26.5
30	20.5	18.5	29.5	28.0	29.5	27.0	31.0	29.0	32.0	30.5	26.5	25.0
31	---	---	29.5	27.5	---	---	32.0	30.0	31.5	30.0	---	---
MONTH	24.0	15.5	29.5	19.5	31.5	23.0	32.5	25.5	32.0	27.5	32.0	24.5
YEAR	32.5	10.0										

10254670 ALAMO RIVER AT DROP NO. 3, NEAR CALIPATRIA, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

		STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	
DATE	TIME							
DEC 15...	1500	509	14.5	352	484	68	75	
MAR 22...	1100	745	19.0	978	1970	31	36	
JUN 14...	0900	595	25.5	527	847	--	--	
SEP 20...	0700	685	29.0	613	1130	--	--	
		SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM
DATE								
DEC 15...	84	92	96	98	100	100	--	
MAR 22...	43	50	56	67	96	100	100	
JUN 14...	--	--	--	92	--	--	--	
SEP 20...	--	--	--	84	--	--	--	

SALTON SEA BASIN

10254730 ALAMO RIVER NEAR NILAND, CA

LOCATION.--Lat 33°12'03", long 115°36'07", in NE 1/4 SW 1/4 NE 1/4 sec. 22, T. 11 S., R. 13 E., Imperial County Hydrologic Unit 18100200, on left bank 0.6 mi upstream from mouth, and 5.8 mi southwest of Niland.

PERIOD OF RECORD.--January 1943 to current year. Monthly discharge only for January 1943 to September 1960 published in WSP 1743.

GAGE.--Water-stage recorder. Altitude of gage is -235 ft, from topographic map.

REMARKS.--Records fair. Discharge mainly 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, 4,500 ft³/s Aug. 17, 1977, estimated by Imperial Irrigation District, minimum daily, 288 ft³/s Jan. 2, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,930 ft³/s July 22; minimum daily, 450 ft³/s Jan. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	758	835	880	540	792	920	1080	1060	745	730	725	808
2	795	830	1020	522	815	920	1080	1040	778	680	705	780
3	780	830	920	450	822	912	1080	1030	800	685	705	738
4	795	822	805	522	815	880	1130	1050	778	718	718	710
5	900	815	705	640	765	830	1150	1070	835	710	710	705
6	905	822	695	710	685	786	1210	1060	795	718	718	710
7	915	815	680	640	693	852	1210	1030	800	705	745	738
8	920	788	665	585	753	905	1250	1080	752	700	718	730
9	915	822	660	552	745	945	1090	1060	765	725	680	765
10	915	880	640	518	805	928	1130	1070	772	700	680	673
11	900	898	622	560	718	928	1130	1010	752	700	759	788
12	860	890	595	552	745	905	1140	982	746	705	765	760
13	905	945	595	540	725	890	1170	935	752	705	759	815
14	905	774	622	612	780	1000	1180	960	765	772	766	802
15	950	765	622	585	780	968	1180	905	746	760	900	830
16	968	774	622	570	895	928	1130	896	716	778	652	865
17	1000	830	640	595	822	935	1100	968	685	778	792	874
18	982	860	635	612	823	945	1130	968	680	765	788	935
19	920	890	565	640	818	872	1080	928	665	778	788	935
20	865	970	612	660	815	896	1100	896	692	765	845	945
21	895	920	685	705	880	950	1080	835	680	808	890	920
22	880	808	652	705	920	950	1010	788	680	1930	845	860
23	865	815	692	692	890	960	968	792	730	1000	780	915
24	807	830	672	725	920	1010	1020	852	738	725	725	905
25	745	853	612	738	935	1040	984	836	685	641	705	915
26	773	815	552	752	930	1080	1030	795	692	620	731	960
27	835	778	570	730	898	1080	1030	800	730	725	700	890
28	928	758	510	738	880	1080	1030	766	730	768	745	912
29	920	758	480	738	895	1130	1040	758	748	802	815	945
30	865	808	515	725	---	1140	1020	778	730	710	852	1010
31	845	---	582	760	---	1080	---	766	---	705	830	---
TOTAL	27211	24998	20322	19613	23759	29645	32962	28764	22162	24031	23758	25358
MEAN	878	833	656	633	819	956	1099	928	739	775	766	845
MAX	1000	970	1020	760	935	1140	1250	1080	835	1930	900	1010
MIN	745	758	480	450	685	786	968	758	665	620	680	705
AC-FT	53970	49580	40310	38900	47130	58800	65380	57050	43960	47670	47126	50300
CAL YR 1983	TOTAL	308976	MEAN	847	MAX	4000	MIN	400	AC-FT	612900		
WTR YR 1984	TOTAL	302583	MEAN	827	MAX	1930	MIN	450	AC-FT	600200		

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 SW 1/4 SE 1/4 sec.14, T.17 S., R.14 E., Imperial County,
Hydrologic Unit 18100200, on left bank 200 ft downstream from bridge on Second Street, 0.2 mi downstream
from international boundary in Calexico.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1 ft, from topographic map.

REMARKS.--Records excellent. Discharge represents seepage and return flow from irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 735 ft³/s Dec. 9, 1982, Feb. 5, 1983; minimum daily,
130 ft³/s Nov. 29, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 564 ft³/s Dec. 27, Aug. 21, 22; minimum daily, 253 ft³/s
Nov. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	373	345	324	290	362	332	318	454	361	300	421	350
2	355	333	329	303	341	327	340	425	329	310	406	354
3	360	325	313	305	320	312	395	408	329	331	374	358
4	386	314	287	329	308	317	400	377	324	359	362	356
5	412	294	291	358	306	323	394	346	309	372	374	370
6	413	297	315	397	335	360	390	373	310	373	384	356
7	389	293	309	441	366	375	369	398	300	326	397	327
8	399	302	305	420	373	368	389	404	304	301	409	314
9	411	309	289	372	370	348	411	445	305	305	406	326
10	416	314	281	330	342	341	458	447	302	331	404	353
11	401	300	269	327	327	344	478	427	323	350	392	378
12	374	280	277	341	341	330	478	406	334	344	380	385
13	348	261	297	343	346	363	439	392	327	330	396	379
14	334	259	311	328	352	370	389	382	313	320	427	343
15	335	275	312	345	350	377	381	377	311	325	465	322
16	345	282	293	377	352	377	373	377	336	339	504	322
17	353	289	283	382	328	367	402	391	342	354	495	345
18	364	280	278	353	318	353	418	380	330	373	506	386
19	380	267	278	362	339	357	387	358	320	394	524	402
20	400	253	325	351	351	370	373	372	318	456	546	376
21	400	256	353	312	359	376	415	372	323	435	564	342
22	392	262	364	311	351	352	443	401	310	447	564	324
23	388	272	343	324	350	333	467	402	306	473	539	316
24	374	278	342	333	342	333	487	375	295	537	501	322
25	371	268	400	331	308	332	494	370	316	540	455	351
26	367	273	501	332	289	334	437	348	349	537	427	380
27	357	263	564	315	300	342	397	355	354	524	409	405
28	334	294	502	323	333	361	408	357	319	505	404	379
29	326	311	381	345	340	363	431	393	304	475	420	350
30	309	318	308	337	---	349	455	385	317	434	420	345
31	315	---	290	354	---	333	---	376	---	425	386	---
TOTAL	11481	8687	10314	10671	9801	10820	12436	12073	9620	12225	13665	10618
MEAN	370	290	333	344	338	349	415	389	321	394	441	354
MAX	416	345	564	441	373	377	494	454	361	540	564	405
MIN	309	253	269	290	289	312	318	346	295	300	362	314
AC-FT	22770	17230	20460	21170	19440	21460	24670	23950	19080	24250	27100	21060
CAL YR 1983	TOTAL	118840	MEAN	326	MAX	735	MIN	210	AC-FT	235700		
WTR YR 1984	TOTAL	132411	MEAN	362	MAX	564	MIN	253	AC-FT	262600		

SALTON SEA BASIN

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969 to 1971, 1973 to current year.
 CHEMICAL ANALYSES: Water years 1969 to 1971, 1973 to current year.
 BIOLOGICAL DATA: Water years 1973 to September 1981.
 SPECIFIC CONDUCTANCE: Water years 1974 to current year.
 WATER TEMPERATURES: Water years 1974 to current year.
 SEDIMENT RECORDS: Water years 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1973 to September 1981.
 WATER TEMPERATURES: October 1973 to September 1981.

INSTRUMENTATION.--Water-quality monitor from October 1973 to September 1981.

REMARKS.--Sudden changes in chemical quality can occur due to slug flows of wastewater.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 12,000 micromhos, July 12, 1978; minimum, 2,240 micromhos, Oct. 31, 1976.
 WATER TEMPERATURES: Maximum, 38.0°C, June 20, 1980; minimum, 10.0°C, Dec. 8-11, 1979.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREA- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	COLI- FORM, FECAL, 0.7 UM-HF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV , 1983											
16...	1400	278	7360	7.8	20.0	760	11	4.1	46	2200000	510000
JAN , 1984											
18...	1330	350	5370	8.0	14.0	770	11	7.9	77	61000	25000
MAR											
21...	1400	376	5670	7.8	22.0	750	12	5.9	70	460000	K130000
MAY											
24...	0700	370	5930	7.7	27.0	755	19	2.5	32	K110000	K110000
JUL											
27...	0700	483	4990	7.6	29.0	760	18	1.4	19	280000	K190000
SEP											
19...	1400	404	4350	7.6	31.0	755	26	.5	7	380000	240000

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LILITY FIELD (MG/L CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV , 1983											
16...	900	670	210	90	1100	69	16	140	234	640	1900
JAN , 1984											
18...	860	640	200	88	860	66	13	81	224	590	1400
MAR											
21...	940	700	210	99	840	64	12	66	239	720	1400
MAY											
24...	820	610	190	83	910	67	14	110	211	610	1600
JUL											
27...	730	530	170	75	750	66	12	79	207	550	1200
SEP											
19...	820	600	180	90	600	60	9	27	224	670	950

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
NOV , 1983											
16...	.7	39	4470	4300	6.1	1.4	3.9	12	1.1	.75	.71
JAN , 1984											
18...	.6	24	3220	3400	4.4	1.2	3.0	4.6	.83	.45	.39
MAR											
21...	.6	21	3590	3500	4.9	1.1	3.2	5.0	1.1	.46	.34
MAY											
24...	.6	28	3630	3700	4.9	.56	1.6	4.2	.78	.30	.22
JUL											
27...	.6	27	3040	3000	4.1	.55	1.3	2.9	.61	.34	.29
SEP											
19...	.6	20	2700	2700	3.7	.27	2.0	3.5	.97	.48	.13

See footnotes at end of table.

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

		ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)		
DATE	TIME											
NOV , 1983												
16...	1400	<10	64	100	<10	1	<1	1	2	70		
MAR , 1984												
21...	1400	20	13	100	10	<1	<1	<1	1	60		
MAY												
24...	0700	<10	28	<100	<10	<1	<1	3	<1	10		
SEP												
19...	1400	10	7	<100	<10	1	2	<1	2	100		
		LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV , 1983												
16...	<1	1700	70	<.1	3	6	2	<1	3500	<1	20	
MAR , 1984												
21...	<1	730	100	<.1	8	1	2	<1	3400	32	10	
MAY												
24...	<1	1100	80	.2	10	5	<1	<1	3500	31	<10	
SEP												
19...	2	360	70	<.1	<1	3	2	<1	2900	12	20	

K Results based on colony count outside the acceptable range (non-ideal colony count).
 < Actual value is known to be less than the value shown.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV						
16...	1400	278	20.0	128	96	54
JAN						
18...	1330	350	14.0	88	83	42
MAR						
21...	1400	376	22.0	148	150	63
MAY						
24...	0700	370	27.0	164	164	59
JUL						
27...	0700	483	29.0	294	383	77

SALTON SEA BASIN

10255550 NEW RIVER NEAR WESTMORLAND, CA

LOCATION.--Lat 33°06'17", long 115°39'49", in SW 1/4 SW 1/4 SW 1/4 sec.19, T.12 S., R.13 E., Imperial County, Hydrologic Unit 18100200, on right bank 3.5 mi upstream from mouth, and 5.2 mi 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.--Waterstage recorder. Altitude of gage is -220 ft, from topographic map.

REMARKS.--Records good. Discharge mainly represents seepage and return flow from irrigated areas.

COOPERATION.--Records were furnished by Imperial Irrigation District and reviewed by the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,000 ft³/s Aug. 17, 18, 1977, estimated by Imperial Irrigation District; minimum daily, 293 ft³/s Jan. 6, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 952 ft³/s Apr. 14, minimum daily, 502 ft³/s Jan. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	740	671	660	551	637	725	797	839	698	702	757	702
2	725	687	704	509	687	744	786	839	675	681	780	687
3	696	698	671	502	713	748	835	830	664	643	771	667
4	690	650	629	538	711	709	855	817	664	625	738	675
5	700	660	607	589	673	675	878	813	662	641	687	654
6	738	629	575	633	627	690	878	797	673	652	692	669
7	744	637	593	631	641	719	862	775	671	671	690	717
8	757	643	613	639	671	793	835	804	685	679	694	713
9	732	623	605	615	709	813	815	802	673	673	681	706
10	721	633	593	615	711	784	837	837	645	669	698	696
11	725	639	577	587	681	755	848	871	633	615	696	681
12	723	656	553	587	669	713	889	866	639	637	694	727
13	715	635	579	621	648	679	935	815	641	641	677	780
14	700	569	581	627	662	713	952	780	658	683	717	746
15	713	579	591	593	662	765	915	759	639	656	776	709
16	692	585	577	595	700	795	880	740	621	662	864	664
17	677	601	571	635	704	795	883	751	633	656	864	619
18	702	585	579	656	669	767	859	759	645	696	817	637
19	677	597	561	656	654	740	873	793	671	734	844	696
20	667	599	585	658	656	729	892	761	687	780	839	736
21	673	577	617	673	677	738	835	732	677	789	857	755
22	696	587	625	660	711	746	808	748	685	947	859	725
23	687	583	639	641	730	748	802	755	652	819	819	709
24	669	573	650	654	761	755	819	776	625	734	771	687
25	694	571	611	631	748	753	846	771	607	757	771	677
26	687	603	615	641	736	757	864	729	617	776	771	723
27	706	587	662	635	696	776	866	709	652	778	746	727
28	700	569	671	637	694	789	850	711	679	793	723	738
29	683	613	690	623	721	791	806	723	706	880	698	757
30	681	609	658	637	---	837	813	734	690	889	700	721
31	662	---	569	627	---	841	---	746	---	822	675	---
TOTAL	21772	18448	19011	19096	19967	23382	25613	24182	19767	22380	23366	21100
MEAN	702	615	613	616	689	754	854	780	659	722	754	703
MAX	757	698	704	673	761	841	952	871	706	947	864	780
MIN	662	569	553	502	627	675	786	709	607	615	675	619
AC-FT	43180	36590	37710	37880	39600	46380	50800	47960	39210	44390	46350	41856
CAL YR 1983	TOTAL	240608	MEAN	659	MAX	1580	MIN	421	AC-FT	477200		
WTR YR 1984	TOTAL	258084	MEAN	705	MAX	952	MIN	502	AC-FT	511900		

10255800 COYOTE CREEK NEAR BORREGO SPRINGS, CA

LOCATION.--Lat 33°22'25", long 116°25'36", in NE 1/4 NE 1/4 NE 1/4 sec. 23, T.9 S., R.5 E., San Diego County, Hydrologic Unit 18100200, in Anza-Borrego Desert State Park, on right bank 500 ft upstream from Box Canyon, 2.3 mi northwest of Rancho De Anza, and 8.7 mi northwest of Borrego Springs.

DRAINAGE AREA.--144 mi².

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 1,120 ft, from topographic map. Since Sept. 30, 1983, at present site and datum. Apr. 19, 1978 to Sept. 30, 1983, at site 0.9 mi upstream at different datum. Mar. 24, 1967 to Apr. 18, 1978 at site 0.5 mi upstream at different datum. Prior to Mar. 24, 1967 at site 1.0 mi upstream at different datum.

REMARKS.--Records poor. No regulation or diversion. No stage-discharge relationship for entire year. Record estimated based on discharge measurements, weather records, and hydrographic comparison with nearby gages.

AVERAGE DISCHARGE.--34 years, 2.57 ft³/s, 1,860 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,090 ft³/s Feb. 21, 1980, gage height, 7.50 ft, from floodmark in well, on basis of slope-area measurement of maximum flow; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 20 ft³/s, estimated, Dec. 25, Aug. 14; minimum daily, 2.70 ft³/s, estimated, May 16-28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	5.0	4.7	4.3	4.9	4.2	3.7	3.1	2.6	3.3	3.4	4.2
2	4.6	5.0	4.7	4.3	4.9	4.2	3.7	3.1	2.6	3.3	3.4	4.2
3	4.2	5.0	4.7	4.3	4.9	4.1	3.7	3.1	2.8	3.3	2.9	4.2
4	5.0	5.0	4.7	4.4	5.0	4.0	3.7	3.0	2.8	3.4	3.0	4.2
5	5.2	5.0	4.7	4.4	5.0	4.0	3.7	3.0	2.6	3.4	3.1	4.2
6	5.5	4.9	4.7	4.4	5.0	4.0	3.7	3.0	2.6	3.4	3.5	4.2
7	5.5	4.9	4.6	4.4	5.0	4.0	3.7	3.0	2.6	3.4	4.0	4.2
8	5.4	4.9	4.6	4.5	4.9	3.9	3.7	2.9	3.0	3.4	4.0	4.1
9	5.4	4.9	4.6	4.5	4.9	3.9	3.7	2.9	3.0	3.5	4.9	4.1
10	5.4	4.9	4.6	4.5	4.8	3.9	3.7	2.9	3.0	3.5	4.6	4.1
11	5.3	4.8	4.5	4.5	4.8	3.9	3.6	2.9	3.0	3.6	4.4	4.1
12	5.3	4.8	4.5	4.5	4.7	3.9	3.6	2.8	3.0	3.7	4.5	4.1
13	5.3	4.8	4.5	4.6	4.7	3.9	3.5	2.8	3.0	3.8	4.5	4.1
14	5.3	4.8	4.5	4.6	4.6	3.8	3.5	2.8	3.0	4.5	20	4.1
15	5.3	4.8	4.5	4.6	4.6	3.8	3.5	2.8	3.0	5.0	6.7	4.1
16	5.2	4.8	4.4	4.6	4.5	3.7	3.5	2.8	3.0	4.9	4.3	4.1
17	5.2	4.8	4.4	4.6	4.5	3.7	3.5	2.8	3.0	4.6	5.9	4.1
18	5.2	4.8	4.4	4.7	4.5	3.7	3.4	2.7	3.1	4.7	8.3	4.1
19	5.2	4.8	4.4	4.7	4.5	3.7	3.4	2.7	3.1	4.6	18	4.0
20	5.2	4.8	4.4	4.7	4.5	3.7	3.4	2.7	3.1	4.5	3.6	4.0
21	5.1	4.8	4.4	4.7	4.5	3.7	3.4	2.7	3.1	15	3.6	4.0
22	5.1	4.8	4.4	4.7	4.5	3.7	3.4	2.7	3.1	5.0	3.4	4.0
23	5.1	4.8	4.4	4.8	4.3	3.7	3.3	2.7	3.2	4.5	3.0	4.0
24	5.1	4.8	4.5	4.8	4.3	3.7	3.3	2.7	3.2	4.5	3.0	4.0
25	5.1	4.8	20	4.8	4.3	3.7	3.3	2.7	3.2	4.5	3.4	4.0
26	5.0	4.7	15	4.8	4.3	3.7	3.3	2.7	3.2	4.5	3.7	4.0
27	5.0	4.7	4.3	4.8	4.2	3.7	3.3	2.7	3.2	5.9	3.8	4.0
28	5.0	4.7	4.3	4.8	4.2	3.7	3.2	2.7	3.3	11	4.5	4.0
29	5.0	4.7	4.3	4.9	4.2	3.7	3.2	2.8	3.3	7.4	4.3	4.0
30	5.0	4.7	4.3	4.9	---	3.7	3.2	2.8	3.3	7.6	4.3	4.0
31	5.0	---	4.3	4.9	---	3.7	---	2.8	---	6.6	4.3	---
TOTAL	159.3	145.0	165.3	143.0	134.0	118.7	104.8	87.8	91.0	154.5	158.5	122.5
MEAN	5.14	4.83	5.33	4.61	4.62	3.83	3.49	2.83	3.03	4.98	5.11	4.08
MAX	5.5	5.0	20	4.9	5.0	4.2	3.7	3.1	3.3	15	20	4.2
MIN	4.5	4.7	4.3	4.3	4.2	3.7	3.2	2.7	2.8	3.3	2.9	4.0
AC-FT	316	288	328	284	266	235	206	174	180	306	314	243
CAL YR 1983	TOTAL	1749.7	MEAN	4.79	MAX	25	MIN	3.7	AC-FT	3470		
WTR YR 1984	TOTAL	1584.4	MEAN	4.33	MAX	20	MIN	2.7	AC-FT	3140		

SALTON SEA BASIN

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, Hydrologic Unit 18100200, on left bank 3.3 mi northwest of Borrego Springs.

DRAINAGE AREA.--21.8 mi².

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, from topographic map.

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

AVERAGE DISCHARGE.--34 years, 0.97 ft³/s, 703 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,640 ft³/s Aug. 16, 1979, gage height, 9.8 ft, from floodmarks, on basis of slope-area measurement of peak flow; no flow for several months in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 15 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 25	1530	36	3.62
July 27	1815	*92	4.45

Minimum daily, 0.50 ft³/s many days during July and August, estimated.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.90	3.0	3.7	5.1	3.8	2.9	2.5	2.1	1.3	.70	.50	.60
2	1.0	3.0	3.8	5.1	3.7	2.8	2.4	2.0	1.3	.70	.50	.60
3	.90	2.9	3.9	4.7	3.7	2.8	2.4	1.9	1.3	.70	.50	.60
4	.90	2.9	4.0	4.6	3.7	2.8	2.4	1.9	1.2	.60	.50	.60
5	3.5	2.9	4.1	4.5	3.7	2.9	2.4	1.9	1.2	.60	.50	.60
6	3.2	2.9	4.2	4.6	3.7	2.8	2.3	1.8	1.2	.60	.50	.60
7	3.2	2.9	4.3	4.8	3.6	2.7	2.3	1.8	1.1	.60	.50	.60
8	3.2	2.9	4.2	4.5	3.6	2.6	2.3	1.8	1.1	.60	.50	.60
9	3.2	2.9	4.1	4.4	3.5	2.6	2.3	1.8	1.1	.60	.50	.60
10	3.2	2.9	4.4	4.2	3.6	2.6	2.2	1.8	1.1	.60	.50	.60
11	3.2	2.9	4.1	4.2	3.6	2.6	2.2	1.8	1.1	.50	.50	.60
12	3.2	2.9	4.1	4.2	3.5	2.6	2.2	1.7	1.0	.50	.50	.60
13	3.1	2.9	4.0	4.1	3.4	2.4	2.1	1.7	1.0	.50	.50	.60
14	3.1	2.9	4.1	4.2	3.3	2.5	2.0	1.7	1.0	1.2	2.0	.60
15	3.1	2.8	3.9	4.6	3.3	2.5	2.0	1.7	1.0	1.1	1.0	.65
16	3.1	2.8	3.9	4.1	3.4	2.4	1.9	1.7	.90	.72	.50	.65
17	3.1	2.8	4.0	4.2	3.7	2.3	1.9	1.7	.90	.75	.50	.65
18	3.1	2.8	4.0	4.0	3.4	1.9	2.0	1.6	.90	.91	.50	.65
19	3.1	2.8	4.0	4.1	3.4	2.2	2.4	1.6	.90	1.1	5.0	.65
20	3.1	2.8	4.0	4.0	3.3	2.3	2.3	1.6	.90	1.2	1.5	.65
21	3.1	2.8	4.0	4.0	3.3	2.0	2.1	1.6	.80	.96	.55	.70
22	3.1	2.8	4.0	4.0	3.3	2.1	2.0	1.6	.80	1.9	.60	.69
23	3.0	2.9	3.9	4.0	3.3	2.2	1.9	1.6	.80	1.3	.60	.71
24	3.0	3.0	4.1	3.9	3.2	2.1	1.8	1.6	.80	1.0	.60	.74
25	3.0	3.1	16	3.9	3.1	1.9	2.0	1.5	.80	.90	.60	.74
26	3.0	3.2	13	3.9	3.1	2.2	2.2	1.5	.70	.90	.60	.77
27	3.0	3.3	11	3.8	3.1	2.1	2.4	1.5	.70	7.0	.60	.81
28	3.0	3.4	8.8	3.8	3.0	2.0	2.4	1.5	.70	1.6	.60	.73
29	3.0	3.5	7.0	3.8	3.0	1.9	2.2	1.4	.70	1.2	.60	.66
30	3.0	3.6	6.1	3.8	---	1.9	2.2	2.0	.70	.90	.60	.67
31	3.0	---	5.4	3.8	---	2.0	---	1.4	---	.65	.60	---
TOTAL	87.60	89.2	164.1	130.9	99.3	73.6	65.7	52.8	28.90	33.11	24.05	19.52
MEAN	2.83	2.97	5.29	4.22	3.42	2.37	2.19	1.70	.96	1.07	.78	.65
MAX	3.5	3.6	16	5.1	3.8	2.9	2.5	2.1	1.3	7.0	5.0	.81
MIN	.90	2.8	3.7	3.8	3.0	1.9	1.8	1.4	.70	.50	.50	.60
AC-FT	174	177	325	260	197	146	130	105	57	66	48	39
CAL YR 1983	TOTAL	2518.15	MEAN	6.90	MAX	160	MIN	.19	AC-FT	4990		
WTR YR 1984	TOTAL	868.78	MEAN	2.37	MAX	16	MIN	.50	AC-FT	1720		

10255885 SAN FELIPE CREEK NEAR WESTMORLAND, CA

LOCATION.--Lat 33°07'24", long 115°51'10", in NW 1/4 SW 1/4 sec.17, T.12 S., R.11 E., Imperial County, Hydrologic Unit 18100200, on right bank 35 ft downstream from State Highway 86, and 14.6 mi northwest of Westmorland.

DRAINAGE AREA.--1,693 mi².

PERIOD OF RECORD.--December 1960 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is -190 ft, from topographic map. Prior to Sept. 10, 1976, at site on left bank 320 ft downstream from bridge on State Highway 86 at different datum.

REMARKS.--Records poor. No regulation above station. Diversion and pumping for domestic use and irrigation in Borrego Valley 25 mi upstream.

AVERAGE DISCHARGE.--23 years (water years 1962-84) 7.81 ft³/s, 5,660 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 100,000 ft³/s Sept. 10, 1976, gage height, 19.0 ft, site and datum then in use from rating curve extended above 500 ft³/s on basis of contracted-opening and flow-over-road measurement of peak flow; no flow for months each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s and maximum (*) from rating curve extended above 5,500 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
July 14	1600	296	7.00	Aug. 14	2000	1,330	9.15
July 20	2300	465	7.60	Aug. 19	1500	911	8.56
July 28	2100	*3,880	11.15				

Minimum daily discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	.05	.10	.10	.11	.01			0	.50	5.0
2	0	0	0	0	.11	.11	.01			0	.70	5.0
3	0	0	0	0	.11	.11	.01			0	.90	4.0
4	3.9	0	0	0	.12	.11	.01			0	1.1	4.0
5	40	0	0	0	.12	.11	.01			0	1.2	4.0
6	10	0	0	0	.13	.10	.01			0	1.4	3.0
7	5.0	0	0	0	.13	.10	.01			0	1.6	3.0
8	4.0	0	0	0	.13	.10	.01			0	1.5	3.0
9	3.0	0	0	0	.13	.10	.01			0	0	2.0
10	2.0	0	0	0	.13	.10	.01			0	0	2.0
11	1.0	0	0	0	.13	.10	0			0	0	25
12	.90	0	0	0	.13	.10	0			0	0	53
13	.80	0	0	0	.13	.10	0			6.2	1.5	5.0
14	.70	0	0	0	.13	.10	0			41	314	5.0
15	.60	0	0	0	.13	.10	0			5.0	10	4.0
16	.50	0	0	0	.12	.09	0			.07	2.2	4.0
17	.50	0	0	0	.12	.09	0			0	1.4	4.0
18	.40	1.0	0	0	.12	.08	0			0	2.3	3.0
19	.30	.50	0	0	.12	.08	0			0	240	3.0
20	.20	1.0	0	.01	.12	.07	0			65	71	3.1
21	.10	10	0	.02	.12	.07	0			51	18	2.8
22	0	1.0	0	.03	.12	.06	0			3.1	18	2.7
23	0	.50	0	.04	.12	.06	0			1.7	13	2.6
24	0	.40	0	.05	.12	.05	0			0	9.0	2.5
25	0	1.0	5.0	.06	.12	.05	0			0	7.1	2.4
26	0	.80	4.0	.07	.11	.04	0			0	7.1	2.3
27	0	.60	3.0	.08	.11	.04	0			285	7.0	2.2
28	0	.40	2.0	.08	.11	.03	0			518	6.0	2.1
29	0	.20	1.0	.09	.11	.03	0			25	6.0	2.0
30	0	.10	.50	.09	---	.02	0			3.0	6.0	1.9
31	0	---	.20	.10	---	.02	---			.60	5.0	---
TOTAL	73.90	17.50	15.75	0.82	3.50	2.43	0.10	0	0	1004.67	753.50	167.6
MEAN	2.38	.58	.51	.026	.12	.078	.003	0	0	32.4	24.3	5.59
MAX	40	10	5.0	.10	.13	.11	.01	0	0	518	314	53
MIN	0	0	0	0	.10	.02	0	0	0	0	0	1.9
AC-FT	147	35	31	1.6	6.9	4.8	.2	0	0	1990	1490	332

CAL YR 1983	TOTAL	6255.72	MEAN	17.1	MAX	1450	MIN	0	AC-FT	12410
WTR YR 1984	TOTAL	2039.77	MEAN	5.57	MAX	518	MIN	0	AC-FT	4050

SALTON SEA BASIN

10256300 SAN GORGONIO RIVER AT BANNING, CA

LOCATION.--Lat 33°55'52", long 116°49'37", in NW 1/4 NE 1/4 NE 1/4 sec.12, T.3 S., R.1 E., Riverside County, Hydrologic Unit 18100200, on left bank 1.7 mi east of Banning.

DRAINAGE AREA.--44.2 mi².

PERIOD OF RECORD.--February 1981 to July 1984 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 2,800 ft, from topographic map.

REMARKS.--Indefinite stage-discharge relation during year. No regulation above station. Some pumping upstream for irrigation. Discharge measurements made during the year are given in table below.

EXTREMES FOR CURRENT YEAR.--Maximum discharge probably occurred Dec. 25, discharge unknown; no flow many days.

DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Date	Time	Discharge (ft ³ /s)	Date	Time	Discharge (ft ³ /s)
Oct. 5	1045	9.4	Apr. 3	1130	1.3
Dec. 22	1015	14	May 16	1000	1.4
Feb. 7	1100	4.6	June 15	0945	1.0
Mar. 14	1130	3.1	July 18	1000	e0.1

e Estimated

10256500 SNOW CREEK NEAR WHITE WATER, CA

LOCATION.--Lat 33°52'14", long 116°40'49", in SE 1/4 NW 1/4 NW 1/4 sec.33, T.3 S., R.3 E., Riverside County, Hydrologic Unit 18100200, on left bank 10 ft upstream from Desert Water Agency diversion dam, 0.1 mi downstream from East Fork, and 4.4 mi southwest of White Water.

DRAINAGE AREA.--10.8 mi².

WATER-DISCHARGE RECORDS

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 on creek; water-stage recorder and Parshall flume on diversion. Altitude of both gages is 2,000 ft, from topographic map. Prior to September 1931, at various sites within 500 ft of present site at different datums. October 1959 to Oct. 6, 1970, at site 40 ft upstream at present datum. Oct. 6, 1970 to Oct. 25, 1978, at site 290 ft upstream above diversion at present datum. Gage moved to present site 10 ft downstream of diversion and 10 ft upstream of concrete diversion dam Oct. 25, 1978.

REMARKS.--Records fair except for period of no gage-height record, which is poor. No regulation above station. Desert Water Agency diverts 10 ft upstream, generally taking most of the base flow. Total flow is computed by combining discharge records for the diversion and the creek. Discharge records for Snow Creek diversion beginning October 1978 available in the files of the Geological Survey.

AVERAGE DISCHARGE.--Combined creek and diversion: 32 years (water years 1923-26, 1929-31, 1960-84), 9.97 ft³/s, 7,220 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,000 ft³/s Jan. 25, 1969, gage height, 13.8 ft, from floodmarks, site and datum then in use, from rating curve extended above 55 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 2.1 ft³/s June 23-27, Sept. 5-11, 1961.

EXTREMES FOR CURRENT YEAR.--Combined creek and diversion: Peak discharges above base of 100 ft³/s and maximum (*), from rating curve extended above 41 ft³/s on basis of theoretical weir formula:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 12	0330	130	2.86	Dec. 25	0745	*707	4.62
Nov. 25	0030	412	3.87				

Minimum daily, 4.0 ft³/s July 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	6.9	16	23	9.7	8.4	6.1	5.6	4.8	4.6	4.3	4.2
2	22	7.6	13	20	9.7	8.7	6.4	5.9	4.7	4.6	4.4	4.4
3	19	6.4	21	19	9.8	8.4	6.3	5.9	4.7	4.5	4.5	4.3
4	17	5.9	20	20	9.0	8.2	6.2	5.9	4.8	4.4	4.4	4.2
5	17	6.1	15	18	9.1	8.1	6.2	5.8	4.8	4.4	4.3	4.1
6	13	6.0	14	17	9.0	7.5	6.0	5.7	4.7	4.5	4.3	4.1
7	13	6.0	14	17	8.7	6.9	5.8	5.7	4.6	4.5	4.2	4.2
8	13	6.8	13	16	8.0	7.3	5.8	5.5	4.6	4.5	4.2	4.3
9	11	6.7	13	15	8.2	7.7	6.0	5.5	4.5	4.4	4.4	4.4
10	11	7.1	13	15	8.8	7.3	6.0	5.4	4.6	4.4	4.4	4.3
11	11	9.3	12	14	7.9	7.3	5.9	5.3	4.6	4.3	4.3	7.3
12	9.7	63	12	14	7.6	7.2	5.8	5.3	4.6	4.3	4.3	8.7
13	9.9	25	12	14	8.0	7.3	5.7	5.3	4.6	4.3	4.4	5.8
14	11	15	12	14	8.5	7.8	5.7	5.1	4.6	6.0	4.6	5.3
15	11	13	12	14	8.6	7.6	5.7	5.1	4.6	4.6	4.2	4.8
16	11	12	12	14	8.9	7.5	5.8	5.1	4.6	4.4	4.5	7.3
17	11	12	11	13	8.7	7.5	5.8	5.1	4.5	4.2	4.3	8.3
18	12	12	12	13	8.4	7.2	5.7	5.0	4.5	4.2	4.3	5.8
19	10	11	11	13	8.2	7.6	6.0	5.0	4.5	4.1	4.4	5.3
20	6.6	22	11	13	8.3	7.0	5.9	4.9	4.5	4.5	4.5	4.8
21	6.1	18	11	13	8.1	6.9	5.7	4.9	4.4	4.8	4.3	4.3
22	5.6	13	11	12	8.1	6.9	5.6	4.9	4.5	4.4	4.3	4.3
23	5.5	12	10	12	8.2	6.7	5.6	4.8	4.5	4.0	4.5	4.3
24	6.1	22	18	12	8.1	6.6	5.5	4.7	4.6	4.2	4.5	4.4
25	5.6	89	291	11	8.6	6.6	5.5	4.7	4.7	4.2	4.6	4.4
26	5.6	24	86	11	8.5	6.7	5.6	4.6	4.5	4.6	4.7	4.4
27	5.7	19	46	10	8.4	6.5	5.8	4.6	4.4	4.6	4.6	4.4
28	5.9	17	34	10	8.5	6.0	5.5	4.4	4.5	5.2	4.7	4.4
29	6.1	15	29	10	8.3	6.2	5.6	4.4	4.5	4.4	4.6	4.4
30	6.1	15	27	11	---	6.4	5.8	4.3	4.6	4.2	4.7	4.2
31	6.1	---	24	10	---	6.3	---	5.0	---	4.2	4.2	---
TOTAL	331.6	503.8	856	438	247.9	224.3	175.0	159.4	137.6	138.5	136.9	149.4
MEAN	10.7	16.8	27.6	14.1	8.55	7.24	5.83	5.14	4.59	4.47	4.42	4.98
MAX	28	89	291	23	9.8	8.7	6.4	5.9	4.8	6.0	4.7	8.7
MIN	5.5	5.9	10	10	7.6	6.0	5.5	4.3	4.4	4.0	4.2	4.1
AC-FT	658	999	1700	869	492	445	347	316	273	275	272	296
CAL YR 1983	TOTAL	9506.5	MEAN	26	MAX	291	MIN	5.5	AC-FT	18860		
WTR YR 1984	TOTAL	3498.4	MEAN	9.56	MAX	291	MIN	4.0	AC-FT	6940		

NOTE.--No gage-height record Aug. 28 to Sept. 30.

SALTON SEA BASIN

10256500 SNOW CREEK NEAR WHITE WATER, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1972-76, 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPF- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BORATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	
NOV 09...	1218	7.3	100	7.7	14.0	31	0	11	.95	8.0	34	.7	
APR 26...	1230	5.4	100	8.2	11.0	34	0	12	1.1	8.7	34	.7	
DATE		POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PORON, DIS- SOLVED (UG/L AS E)	IRON, DIS- SOLVED (UG/L AS FE)
NOV 09...	2.0	50	1.4	1.6	<.10	21	67	75	<.10	.01	<10	14	
APR 26...	1.9	52	1.9	1.5	.10	21	76	82	<.10	.02	<10	7	

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

10257600 MISSION CREEK NEAR DESERT HOT SPRINGS, CA

LOCATION.--Lat 34°00'40", long 116°37'38", in NE 1/4 SW 1/4 sec.12, T.2 S., R.3 E., Riverside County, Hydrologic Unit 18100200, in Mission Creek Indian Reservation, 0.6 mi downstream from West Fork, and 6.8 mi northwest of Desert Hot Springs.

DRAINAGE AREA.--35.7 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 2,400 ft, from topographic map.

REMARKS.--Records poor. Slight regulation of low flow by two small dams with a combined capacity of about 3 acre-ft, 2 mi above station.

AVERAGE DISCHARGE.--17 years, 4.18 ft³/s, 3,030 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,750 ft³/s Aug. 17, 1983, gage height, 3.33 ft, on basis of slope-conveyance study of maximum flow; maximum gage height, 6.40 ft, Jan. 25, 1969; no flow for long periods in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, unknown Dec. 25, gage height, 2.48 ft, no peak above base of 50 ft³/s; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	3.3	0.10	0	5.4	4.6	3.9	2.8	2.2	1.4	1.9	1.6
2	0	5.0	0	0	5.4	4.6	3.7	2.8	2.2	1.4	1.9	1.6
3	0	4.5	0	0	5.5	4.5	3.7	2.7	2.1	1.2	1.9	1.6
4	0	4.0	0	0	5.6	4.5	3.7	2.7	2.1	1.2	1.9	1.6
5	0	3.8	0	0	5.6	4.5	3.6	2.7	2.1	1.0	1.6	1.6
6	0	3.5	0	0	5.7	4.5	3.6	2.6	2.1	1.2	1.6	1.6
7	0	3.4	0	0	5.7	4.5	3.6	2.6	1.9	1.4	1.6	1.6
8	0	3.4	0	0	5.7	4.5	3.5	2.6	1.9	1.4	1.6	1.6
9	0	4.1	0	0	5.7	4.4	3.5	2.6	1.9	1.4	1.6	1.6
10	0	4.1	0	0	5.6	4.4	3.5	2.5	1.9	1.4	1.6	1.6
11	0	4.1	0	4.8	5.5	4.4	3.4	2.5	1.9	1.2	1.4	1.6
12	0	3.9	0	1.3	5.5	4.4	3.4	2.5	1.7	1.2	1.4	1.6
13	0	4.1	0	2.9	5.4	4.4	3.3	2.4	1.6	1.4	1.4	1.6
14	0	3.6	0	3.3	5.4	4.4	3.3	2.4	1.6	2.1	1.4	1.6
15	0.04	3.3	0	3.7	5.4	4.3	3.3	2.4	1.6	1.9	2.8	1.5
16	0.02	3.3	0	3.9	5.3	4.3	3.3	2.4	1.6	1.9	1.9	1.5
17	0.51	3.6	0	4.4	5.2	4.3	3.2	2.3	1.6	1.9	1.8	1.5
18	0.02	3.9	0	4.5	5.2	4.2	3.2	2.3	1.6	1.9	1.8	1.5
19	0.01	4.1	0	4.5	5.2	4.2	3.2	2.3	1.6	1.9	1.8	1.5
20	0	4.9	0.04	4.7	5.1	4.1	3.2	2.3	1.6	1.6	1.8	1.5
21	2.1	5.2	0.48	4.6	5.0	4.1	3.1	2.3	1.6	1.6	1.8	1.5
22	2.7	4.1	0.04	4.9	5.0	4.0	3.1	2.3	1.6	1.6	1.7	1.5
23	4.7	10	0.14	5.0	5.0	4.0	3.1	2.3	1.6	1.6	1.7	1.5
24	6.8	11	0.09	5.0	4.9	3.9	3.0	2.3	1.6	1.6	1.7	1.5
25	7.0	12	0.25	5.2	4.8	3.9	3.0	2.3	1.4	1.4	1.7	1.5
26	7.6	9.0	0.11	5.2	4.7	3.9	2.9	2.2	1.4	1.6	1.7	1.5
27	8.8	5.0	0	5.2	4.7	3.9	2.9	2.2	1.4	1.6	1.7	1.5
28	8.8	1.0	0	5.2	4.6	3.9	2.9	2.2	1.4	1.6	1.7	1.3
29	1.8	0.50	0	5.3	4.6	3.8	2.8	2.2	1.4	1.6	1.7	1.3
30	1.2	0.20	0	5.4	---	3.8	2.8	2.2	1.4	2.4	1.6	1.4
31	2.5	---	0	5.4	---	4.1	---	2.2	---	2.1	1.6	---
TOTAL	10.06	136.10	25.92	89.58	152.4	131.3	98.7	75.1	51.6	48.7	53.3	45.9
MEAN	.32	4.54	.84	2.89	5.26	4.24	3.29	2.42	1.72	1.57	1.72	1.53
MAX	2.5	12	25	5.4	5.7	4.6	3.9	2.8	2.2	2.4	2.8	1.6
MIN	0	.20	0	0	4.6	3.8	2.8	2.2	1.4	1.0	1.4	1.3
AC-FT	20	270	51	178	302	260	196	149	102	97	106	91

CAL YR 1983 TOTAL 1597.73 MEAN 4.38 MAX 47 MIN 0 AC-FT 3170
WTR YR 1984 TOTAL 918.66 MEAN 2.51 MAX 25 MIN 0 AC-FT 1820

NOTE.--Indefinite stage-discharge relation most of year.

10257710 CHINO CANYON CREEK NEAR PALM SPRINGS, CA

LOCATION.--Lat 33°50'21", long 116°36'45", in SW 1/4 SW 1/4 NW 1/4 sec.7, T.4 S., R.4 E., Riverside County, Hydrologic Unit 18100200, on left bank 800 ft downstream from tram building, 3.7 mi west of Highway 111 on road leading to Palm Springs aerial tramway, and 5.5 mi west of Palm Springs.

DRAINAGE AREA.--3.88 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,500 ft, from topographic map.

REMARKS.--Records fair except those for periods of no gage-height record, which are poor. Two diversions for the city of Palm Springs, 0.5 mi upstream.

AVERAGE DISCHARGE.--10 years, 0.93 ft³/s, 674 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 247 ft³/s Aug. 15, 1977, gage height, 5.93 ft, from floodmark, from rating curve extended above 61 ft³/s on basis of slope-area measurement of peak flow; no flow for several days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 13.0 ft³/s (estimated), Dec. 25; no flow several days in July and August.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	1.2	1.3	3.0	1.2	1.0	.74	.55	.07	.02	.07	.03
2	2.2	1.2	1.3	2.9	1.2	1.0	.64	.55	.07	.03	.03	.05
3	2.1	1.2	1.4	2.8	1.2	1.0	.66	.54	.07	.02	.03	.06
4	2.0	1.2	1.5	2.7	1.3	1.0	.61	.52	.09	0	.03	.05
5	2.0	1.1	1.5	2.6	1.2	1.0	.63	.48	.09	0	.02	.05
6	1.9	1.1	1.4	2.5	1.2	1.0	.62	.45	.07	0	.03	.04
7	1.8	1.1	1.3	2.5	1.2	.98	.56	.42	.07	0	.01	.04
8	1.8	1.2	1.3	2.4	1.2	.96	.58	.39	.07	.01	0	.05
9	1.8	1.3	1.3	2.4	1.3	.96	.60	.36	.07	0	.01	.06
10	1.7	1.3	1.3	2.4	1.3	.94	.60	.33	.09	.01	.02	.07
11	1.6	1.3	1.3	2.2	1.3	.92	.60	.30	.07	0	.02	.27
12	1.6	1.3	1.3	2.2	1.3	.92	.67	.28	.07	0	.01	.18
13	1.5	1.5	1.3	2.2	1.3	.90	.62	.25	.06	0	0	.09
14	1.6	1.4	1.3	2.2	1.2	.88	.59	.24	.06	.22	.01	.07
15	1.5	1.3	1.2	2.2	1.2	.86	.53	.22	.06	.04	.02	.06
16	1.5	1.3	1.2	2.2	1.2	.88	.50	.19	.05	.02	.01	.06
17	1.5	1.3	1.2	2.2	1.2	.86	.52	.17	.05	.05	.02	.06
18	1.5	1.3	1.2	2.2	1.2	.87	.54	.16	.05	.04	0	.06
19	1.6	1.2	1.2	2.2	1.1	.86	.58	.14	.04	.18	.02	.05
20	1.4	1.3	1.2	2.0	1.1	.80	.54	.14	.05	.08	.05	.05
21	1.5	1.6	1.2	2.0	1.1	.79	.54	.11	.05	.04	.04	.05
22	1.5	1.6	1.1	1.8	1.1	.81	.53	.09	.04	.48	.07	.05
23	1.5	1.6	1.2	1.6	1.1	.78	.53	.08	.05	.38	.04	.06
24	1.5	1.7	1.3	1.6	1.1	.81	.54	.08	.04	.17	.04	.06
25	1.5	2.3	1.3	1.5	1.1	.85	.55	.09	.05	.09	.08	.06
26	1.5	2.3	8.0	1.6	1.1	.78	.58	.08	.04	.07	.05	.06
27	1.4	2.6	5.0	1.6	1.1	.93	.62	.07	.05	.07	.04	.06
28	1.5	2.1	4.2	1.6	1.1	.71	.60	.05	.02	.12	.01	.06
29	1.5	1.5	3.8	1.5	1.0	.62	.57	.05	.06	.06	.05	.05
30	1.5	1.3	3.5	1.3	---	.62	.55	.11	.03	.04	.03	.04
31	1.4	---	3.2	1.3	---	.68	---	.07	---	.07	.03	---
TOTAL	51.1	43.7	71.5	65.4	34.2	26.97	17.54	7.56	1.75	2.31	0.89	2.00
MEAN	1.65	1.46	2.31	2.11	1.18	.87	.58	.24	.058	.075	.029	.067
MAX	2.2	2.6	13	3.0	1.3	1.0	.74	.55	.09	.48	.08	.27
MIN	1.4	1.1	1.1	1.3	1.0	.62	.50	.05	.02	0	0	.03
AC-FT	101	87	142	130	68	53	35	15	3.5	4.6	1.8	4.0

CAL YR 1983 TOTAL 727.89 MEAN 1.99 MAX 13 MIN 0 AC-FT 1440
WTR YR 1984 TOTAL 324.92 MEAN .89 MAX 13 MIN 0 AC-FT 644

NOTE.--No gage-height record Dec. 9 to Jan. 9, Feb. 20 to Mar. 14, Apr. 15 to May 15, Aug. 28 to Sept. 30.

SALTON SEA BASIN

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10257710 CHINO CANYON CREEK NEAR PALM SPRINGS, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1972-76, 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CaCO3)	HARD- NESS NONCAR- BONATE (MG/L AS CaCO3)	CALCIUM DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS Na)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
NOV 09...	1535	1.3	217	8.1	13.5	83	0	28	3.1	9.6	19	.5
APR 30...	1236	.54	211	8.5	15.5	82	0	28	3.0	9.5	19	.5
DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CaCO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUG- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
NOV 09...	5.0	105	7.7	2.5	<.10	19	127	140	<.10	.01	20	9
APR 30...	4.8	--	6.9	2.3	<.10	18	90	140	<.10	.02	10	3

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

SALTON SEA BASIN

10258000 TAHQUITZ CREEK NEAR PALM SPRINGS, CA

LOCATION.--Lat 33°48'18", long 116°33'30", in NE 1/4 SW 1/4 SW 1/4 sec.22, T.4 S., R.4 E., Riverside County, Hydrologic Unit 18100200, 2.2 mi southwest of Palm Springs, and 7 mi upstream from mouth.

DRAINAGE AREA.--16.8 mi².

PERIOD OF RECORD.--October 1947 to September 1982, October 1983 to September 1984.

GAGE.--Water-stage recorder. Datum of gage is 762.5 ft National Geodetic Vertical Datum of 1929 (levels by Riverside County Flood Control District). Prior to Aug. 25, 1970, at datum 2.00 ft higher.

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

AVERAGE DISCHARGE.--36 years (water years 1948-82, 1984), 5.40 ft³/s, 3,910 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,900 ft³/s Nov. 22, 1965, Jan. 25, 1969, gage height, 12.34 ft, from rating curve extended above 70 ft³/s on basis of slope-area measurements at gage heights 10.45 ft and 12.34 ft; maximum gage height, 15.78 ft, Sept. 7, 1981, from debris wave produced by thunderstorm following a brushfire; no flow for parts of most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 85 ft³/s and maximum (*), from rating curve extended above 70 ft³/s, on basis of slope-area measurements at gage heights 10.45 ft and 12.34 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 25	0300	153	6.71	Dec. 25	2000	*370	7.91

Minimum daily, 0.56 ft³/s Sept. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	6.2	17	38	14	9.4	7.4	5.0	2.0	1.0	.80	.66
2	14	6.3	16	34	14	9.2	7.4	4.7	2.0	.95	.80	.64
3	13	6.0	20	32	14	8.9	7.3	4.4	2.0	.95	.80	.62
4	13	5.8	19	31	13	8.9	7.2	4.2	2.0	.95	.78	.60
5	12	5.7	16	30	13	8.9	7.1	4.0	2.0	.95	.78	.58
6	12	5.5	16	29	13	8.8	7.5	3.8	1.9	.90	.76	.56
7	11	5.4	15	27	13	8.8	7.4	3.8	1.8	.90	.76	.60
8	11	5.3	15	26	12	8.7	6.8	3.6	1.7	.85	.75	.60
9	9.9	5.3	14	24	12	8.7	6.5	3.5	1.7	.85	.80	.65
10	8.8	5.1	15	23	12	8.6	6.5	3.4	1.6	.80	.90	.70
11	8.3	5.0	13	22	12	8.6	6.1	3.4	1.6	.80	.90	10
12	7.9	4.2	13	21	12	8.5	5.9	3.3	1.7	.75	.70	3.0
13	7.7	3.2	13	21	12	8.5	5.5	3.2	1.6	.75	.70	1.5
14	7.5	1.8	13	20	11	8.4	5.3	3.1	1.6	5.0	.90	1.2
15	7.5	1.4	13	20	11	8.4	5.1	3.0	1.6	.80	1.0	1.1
16	7.4	1.2	12	20	11	8.3	5.0	3.0	1.5	.78	.90	1.1
17	7.7	1.1	12	19	11	8.2	5.0	3.0	1.5	.76	.80	1.1
18	9.2	1.1	12	19	11	8.0	5.0	2.9	1.5	.74	2.5	1.0
19	7.7	1.0	12	19	11	7.9	5.7	2.7	1.3	.72	7.0	1.0
20	7.2	1.7	11	18	11	7.8	5.7	2.6	1.3	.70	3.0	1.0
21	7.0	1.6	11	18	11	7.7	5.3	2.5	1.2	.70	1.5	.98
22	6.8	1.3	11	17	11	7.5	5.1	2.5	1.2	7.0	1.0	.98
23	6.6	1.3	11	17	10	7.5	4.9	2.4	1.2	3.5	.90	.96
24	6.4	1.4	13	17	10	7.5	4.7	2.3	1.2	1.5	.80	.96
25	6.3	6.1	228	16	10	7.3	4.6	2.3	1.3	.90	.78	.94
26	6.3	26	149	16	9.8	7.3	4.9	2.2	1.3	.60	.76	.94
27	6.4	22	88	15	9.8	7.3	5.2	2.0	1.1	.60	.74	.92
28	6.4	20	65	15	9.8	7.3	5.1	2.0	1.1	8.5	.73	.92
29	6.4	18	53	15	9.6	7.2	5.1	2.2	1.2	4.5	.72	.90
30	6.3	17	46	14	---	7.2	5.5	2.3	1.1	2.0	.70	.90
31	6.2	---	42	14	---	7.2	---	2.0	---	1.0	.68	---
TOTAL	267.9	448.6	1004	667	334.0	252.5	175.8	95.3	45.8	51.70	35.64	37.61
MEAN	8.64	15.0	32.4	21.5	11.5	8.15	5.86	3.07	1.53	1.67	1.15	1.25
MAX	14	61	228	38	14	9.4	7.5	5.0	2.0	8.5	7.0	10
MIN	6.2	5.0	11	14	9.6	7.2	4.6	2.0	1.1	.60	.68	.56
AC-FT	531	890	1990	1320	662	501	349	189	91	103	71	75

WTR YR 1984 TOTAL 3415.85 MEAN 9.33 MAX 228 MIN .56 AC-FT 6780

NOTE.--No gage-height record July 3 to Sept. 30.

10258500 PALM CANYON CREEK NEAR PALM SPRINGS, CA

LOCATION.--Lat 33°44'42", long 116°32'05", in NE 1/4 SW 1/4 SE 1/4 sec.11, T.5 S., R.4 E., Riverside County, Hydrologic Unit 18100200, on right bank 0.8 mi upstream from Murray Canyon Creek, and 6 mi south of Palm Springs.

DRAINAGE AREA.--93.3 mi².

PERIOD OF RECORD.--January 1930 to January 1942, October 1947 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 700 ft, from topographic map. Prior to Jan. 14, 1942, at datum 0.2 ft higher.

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

AVERAGE DISCHARGE.--48 years (water years 1931-41, 1948-84), 5.39 ft³/s, 3,910 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,000 ft³/s Feb. 21, 1980, gage height, 7.29 ft, from rating curve extended above 650 ft³/s on basis of slope-area measurement at gage height 6.38 ft; no flow for several months in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft³/s and maximum (*), from rating curve extended above 1,300 ft³/s on basis of slope-area measurement at gage height 6.38 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 25	0830	406	3.73	July 27	2200	*1,130	4.63
July 18	2030	182	3.22	Aug. 14	1445	199	3.27
July 21	2215	119	3.00				

Minimum daily, no flow July 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	6.0	6.8	15	7.4	6.0	4.5	2.5	.68	.09	.90	.68
2	5.9	6.4	6.8	13	7.4	6.0	4.5	2.3	.60	.05	.70	.76
3	5.9	6.0	8.0	13	7.1	6.0	4.3	2.3	.60	.04	.67	.76
4	5.9	6.0	11	12	6.7	6.0	4.0	2.1	.68	.02	.64	.53
5	8.5	6.4	8.0	12	6.4	6.0	3.7	1.8	.60	0	.60	.53
6	7.2	6.0	7.2	13	6.7	6.4	4.0	1.8	.85	.89	.51	.46
7	6.8	6.0	6.8	12	6.7	6.7	4.0	1.6	.68	.60	.53	.60
8	6.8	6.0	6.0	11	6.4	6.7	3.7	1.6	.76	.53	.46	.85
9	6.4	6.4	6.0	9.9	6.4	6.0	3.5	1.5	.68	1.7	.60	1.1
10	6.0	6.4	6.4	9.4	6.0	6.0	3.3	1.6	.60	.46	.68	1.4
11	5.7	6.8	6.0	9.4	6.4	6.0	3.1	1.6	.46	.09	.68	5.9
12	5.3	15	5.7	9.4	6.0	6.0	3.1	1.6	.46	.01	.53	6.2
13	5.3	10	5.7	9.0	6.4	6.0	2.6	1.6	.53	.11	.53	2.3
14	5.7	7.6	5.7	9.4	6.0	6.0	2.5	1.6	.53	2.3	21	1.5
15	5.7	6.8	5.3	9.0	6.0	6.4	2.5	1.8	.53	1.6	4.8	1.1
16	6.0	5.7	5.7	9.0	6.0	6.4	2.1	1.8	.53	1.5	2.1	1.3
17	6.4	5.7	5.7	9.4	6.4	5.7	2.3	1.9	.40	1.5	3.2	1.3
18	6.4	5.7	5.7	9.0	6.0	5.7	2.5	1.6	.33	19	1.9	1.1
19	6.0	5.3	5.7	8.6	6.0	5.7	2.8	1.5	.17	11	8.2	1.1
20	6.0	6.4	5.7	8.2	5.7	5.7	2.8	1.5	.11	2.8	8.6	1.0
21	5.7	11	5.3	8.2	6.0	5.4	2.6	1.4	.09	7.9	3.3	1.0
22	5.3	8.0	5.3	8.6	6.0	5.1	2.6	1.4	.07	19	1.9	1.1
23	5.3	7.2	5.3	8.2	6.0	5.4	2.3	1.3	.05	4.8	1.5	1.1
24	5.3	6.8	6.0	7.8	6.0	5.1	2.1	1.1	.05	2.8	1.0	1.1
25	5.3	12	153	7.8	6.0	5.1	2.1	1.1	.30	2.5	4.8	1.0
26	5.3	9.5	73	7.8	5.7	4.8	2.3	1.0	.30	2.3	2.8	1.1
27	5.3	8.5	31	7.4	5.7	4.8	2.6	.94	.13	54	1.8	.94
28	5.3	7.6	23	7.4	5.7	4.5	2.8	.76	.02	43	3.7	.76
29	5.7	7.6	19	7.8	5.7	4.5	2.6	.60	.12	10	1.8	.68
30	6.0	7.2	18	7.8	---	4.5	2.6	.85	.30	2.5	1.1	.60
31	6.0	---	16	7.4	---	4.5	---	1.3	---	1.5	.85	---
TOTAL	184.4	222.0	484.8	296.9	180.9	175.1	90.4	47.35	12.21	194.59	82.38	39.85
MEAN	5.95	7.40	15.6	9.58	6.24	5.65	3.01	1.53	.41	6.28	2.66	1.33
MAX	8.5	15	153	15	7.4	6.7	4.5	2.5	.85	54	21	6.2
MIN	5.3	5.3	5.3	7.4	5.7	4.5	2.1	.60	.02	0	.46	.46
AC-FT	366	440	962	589	359	347	179	94	24	386	163	79
CAL YR 1983	TOTAL	12639.10	MEAN	34.6	MAX	776	MIN	1.8	AC-FT	25070		
WTR YR 1984	TOTAL	2010.88	MEAN	5.49	MAX	153	MIN	0	AC-FT	3990		

SALTON SEA BASIN

10259000 ANDREAS CREEK NEAR PALM SPRINGS, CA

LOCATION.--Lat 33°45'36", long 116°32'57", in NW 1/4 SE 1/4 SE 1/4 sec.3, T.5 S., R.4 E., Riverside County, Hydrologic Unit 18100200, on left bank at Bureau of Indian Affairs diversion dam, 1.1 mi above mouth, and 5.1 mi south of Palm Springs.

DRAINAGE AREA.--8.61 mi².

PERIOD OF RECORD.--October 1948 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 800 ft, from topographic map. Prior to Mar. 25, 1949, reference point at same site at different datum.

REMARKS.--Records good except for period of indefinite stage-discharge relation, which is poor. No regulation above station. One small diversion for domestic use about 1 mi above station.

AVERAGE DISCHARGE.--36 years, 3.03 ft³/s, 2,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,960 ft³/s Aug. 31, 1954, gage height, 7.11 ft, from rating curve extended above 80 ft³/s on basis of slope-area measurement of peak flow; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 94 ft³/s Dec. 25, gage height, 3.44 ft, from rating curve extended above 16 ft³/s, on basis of slope-area measurement of peak flow, no other peak above base of 50 ft³/s; minimum daily, 2.2 ft³/s several days during August and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	5.0	6.8	10	6.0	5.3	4.6	4.0	2.8	2.4	2.6	2.2
2	6.5	4.9	6.7	9.8	5.9	5.3	4.6	4.0	2.8	2.5	2.5	2.4
3	6.3	4.9	9.7	9.5	5.9	5.2	4.5	4.0	2.8	2.4	2.5	2.4
4	6.0	4.9	9.1	9.2	5.8	5.1	4.3	3.9	2.9	2.3	2.4	2.3
5	7.0	4.8	7.7	9.1	5.7	5.1	4.2	3.6	2.9	2.3	2.4	2.2
6	6.5	4.8	7.4	8.8	5.7	5.1	4.4	3.3	2.9	2.4	2.4	2.2
7	6.0	4.8	7.2	8.5	5.6	5.0	4.2	3.3	2.9	2.5	2.3	2.2
8	5.8	4.8	6.9	8.3	5.6	5.0	4.2	3.2	2.9	2.7	2.3	2.3
9	5.6	4.7	6.6	8.1	5.6	4.9	4.1	3.2	2.8	2.6	2.5	2.5
10	5.6	4.5	6.8	7.9	5.6	4.8	4.1	3.1	2.8	2.4	2.5	2.5
11	5.6	5.5	6.6	7.8	5.7	4.7	4.0	3.1	2.8	2.3	2.4	5.1
12	5.5	12	6.5	7.7	5.6	4.7	3.9	3.2	2.7	2.3	2.3	3.2
13	5.5	8.0	6.4	7.3	5.6	4.6	3.8	3.1	2.7	2.4	2.3	2.6
14	5.5	6.0	6.4	7.5	5.6	4.7	3.8	3.1	2.7	3.6	2.6	2.4
15	5.4	5.5	6.3	7.6	5.7	4.7	3.7	3.3	2.7	2.8	2.7	2.4
16	5.4	5.0	6.3	7.4	5.9	4.6	3.7	3.2	2.6	2.7	2.6	2.4
17	6.0	5.0	6.2	7.2	6.0	4.6	3.7	3.3	2.6	2.7	2.5	2.4
18	5.5	5.0	6.1	7.0	5.8	4.6	3.8	3.2	2.5	2.7	2.7	2.3
19	5.4	5.0	6.0	6.8	5.6	4.5	4.0	3.1	2.5	2.7	3.4	2.3
20	5.3	5.0	6.0	6.6	5.7	4.5	4.0	3.1	2.5	2.6	3.1	2.3
21	5.2	8.0	5.9	6.5	5.8	4.4	3.8	3.0	2.5	2.5	2.8	2.3
22	5.2	7.0	5.8	6.5	5.7	4.4	3.9	3.0	2.5	3.5	2.7	2.4
23	5.2	6.0	5.7	6.4	5.7	4.4	3.9	2.9	2.5	2.8	2.5	2.4
24	5.2	5.0	6.7	6.4	5.6	4.4	3.9	2.9	2.6	2.6	2.4	2.4
25	5.2	10	47	6.4	5.7	4.3	4.0	2.8	2.7	2.4	2.6	2.4
26	5.1	8.5	26	6.3	5.7	4.3	4.2	2.8	2.5	2.6	2.6	2.4
27	5.1	7.0	16	6.3	5.5	4.3	4.4	2.8	2.4	2.9	2.6	2.4
28	5.1	7.0	14	6.1	5.3	4.3	4.3	2.7	2.4	4.2	2.5	2.3
29	5.0	7.0	13	6.0	5.3	4.3	4.1	2.7	2.7	3.3	2.3	2.3
30	5.0	6.9	12	6.0	---	4.4	4.0	3.0	2.6	3.0	2.2	2.3
31	5.0	---	11	6.0	---	4.5	---	2.9	---	2.7	2.2	---
TOTAL	173.5	182.5	300.8	231.0	164.9	145.0	122.1	98.8	80.2	83.8	78.4	74.2
MEAN	5.60	6.08	9.70	7.45	5.69	4.68	4.07	3.19	2.67	2.70	2.53	2.47
MAX	7.0	12	47	10	6.0	5.3	4.6	4.0	2.9	4.2	3.4	5.1
MIN	5.0	4.5	5.7	6.0	5.3	4.3	3.7	2.7	2.4	2.3	2.2	2.2
AC-FT	344	362	597	458	327	288	242	196	159	166	156	147
CAL YR 1983	TOTAL	4657.3	MEAN	12.8	MAX	59	MIN	3.5	AC-FT	9240		
WTR YR 1984	TOTAL	1735.2	MEAN	4.74	MAX	47	MIN	2.2	AC-FT	3440		

NOTE.--Indefinite stage-discharge relation Oct. 1 to Dec. 2.

10259200 DEEP CREEK NEAR PALM DESERT, CA

LOCATION.--Lat 33°37'52", long 116°23'29", in SE 1/4 NE 1/4 SE 1/4 sec.19, T.6 S., R.6 E., Riverside County, Hydrologic Unit 18100200, on left bank 500 ft downstream from unnamed tributary, and 6.3 mi south of Palm Desert.

DRAINAGE AREA.--30.6 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 1,440 ft, from topographic map.

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

AVERAGE DISCHARGE.--22 years, 2.36 ft³/s, 1,710 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,100 ft³/s Sept. 10, 1976, gage height, 7.84 ft, from rating curve extended above 40 ft³/s on basis of slope-area measurements at gage heights 2.68 ft, 5.15 ft and 7.84 ft; maximum gage height 10.27 ft Aug. 14, 1984, (backwater from debris); no flow for many days most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 20 ft³/s and maximum (*), from rating curve extended above 40 ft³/s on basis of slope-area measurement of maximum flow:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 25	1530	35	2.50	July 27	1845	1,540	6.85
July 19	1445	21	2.26	Aug. 14	1030	*5,700	10.27

Minimum daily, 0.08 ft³/s June 27, 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	3.7	3.5	3.9	2.6	1.9	1.6	1.3	.20	.15	.40	.30
2	2.5	3.6	3.6	3.7	2.6	1.9	1.6	1.2	.18	.16	.10	.20
3	2.5	3.5	3.4	3.6	2.5	1.8	1.6	1.1	.18	.14	.10	.25
4	2.5	3.5	3.6	3.5	2.4	1.8	1.5	1.0	.18	.13	.10	.20
5	10	3.5	3.4	4.0	2.4	1.8	1.5	.89	.18	.12	.10	.14
6	8.5	3.4	3.3	4.2	2.4	1.8	1.6	.85	.19	.12	.10	.10
7	7.0	3.4	3.2	3.7	2.3	1.8	1.6	.80	.17	.12	.10	.14
8	5.8	3.4	3.2	3.5	2.3	1.8	1.5	.76	.17	.12	.10	.20
9	5.4	3.5	3.1	3.4	2.3	1.7	1.4	.69	.17	.12	.10	.25
10	5.2	3.5	3.1	3.3	2.2	1.7	1.5	.61	.16	.10	.20	.30
11	5.4	3.4	3.1	3.3	2.3	1.7	1.4	.59	.15	.10	.20	2.5
12	5.1	3.7	3.0	3.2	2.3	1.7	1.3	.58	.14	.10	.10	1.5
13	5.0	3.8	2.9	3.2	2.2	1.7	1.3	.57	.14	.09	.10	1.0
14	4.8	3.6	2.9	3.3	2.2	1.7	1.2	.52	.14	.14	400	.90
15	4.8	3.5	2.8	3.1	2.2	1.7	1.2	.49	.13	.12	50	.90
16	4.7	3.4	2.8	3.1	2.2	1.7	1.1	.50	.12	.15	1.0	1.2
17	4.8	3.3	2.8	3.1	2.2	1.6	1.1	.49	.12	.80	1.5	1.2
18	4.7	3.3	2.8	3.0	2.1	1.6	1.2	.48	.11	1.1	1.0	1.2
19	4.5	3.3	2.8	3.0	2.1	1.6	1.3	.42	.10	1.3	2.0	1.2
20	4.3	3.4	2.7	2.9	2.1	1.6	1.3	.39	.10	.49	4.0	1.2
21	4.2	3.9	2.6	2.9	2.1	1.5	1.3	.35	.10	.45	2.0	1.1
22	4.1	3.5	2.6	2.9	2.1	1.5	1.2	.32	.09	.76	1.0	1.1
23	4.0	3.3	2.6	2.9	2.0	1.5	1.2	.31	.09	.68	.70	1.1
24	3.9	3.3	3.0	2.8	2.0	1.6	1.1	.26	.09	.52	.50	1.1
25	3.9	4.1	16	2.8	2.0	1.5	1.1	.24	.09	.39	2.0	1.1
26	3.9	3.7	14	2.8	2.0	1.5	1.2	.23	.09	.38	1.5	1.1
27	3.9	3.5	8.0	2.7	2.0	1.5	1.3	.21	.08	100	1.0	1.0
28	3.9	3.4	6.1	2.7	1.9	1.5	1.4	.19	.08	40	1.9	1.0
29	3.9	3.4	5.0	2.7	1.9	1.5	1.3	.18	.09	15	1.0	.96
30	3.8	3.3	4.5	2.6	---	1.5	1.3	.18	.09	5.0	.60	.95
31	3.7	---	4.1	2.6	---	1.5	---	.22	---	1.0	.40	---
TOTAL	143.2	105.1	130.5	98.4	63.9	51.2	40.2	16.92	3.92	169.85	473.90	25.39
MEAN	4.62	3.50	4.21	3.17	2.20	1.65	1.34	.55	.13	5.48	15.3	.85
MAX	10	4.1	16	4.2	2.6	1.9	1.6	1.3	.20	100	400	2.5
MIN	2.5	3.3	2.6	2.6	1.9	1.5	1.1	.18	.08	.09	.10	.10
AC-FT	284	208	259	195	127	102	80	34	7.8	337	940	50

CAL YR 1983 TOTAL 3875.82 MEAN 10.6 MAX 423 MIN .78 AC-FT 7690
WTR YR 1984 TOTAL 1322.48 MEAN 3.61 MAX 400 MIN .08 AC-FT 2620

NOTE.--No gage-height record July 27 to Sept. 26.

SALTON SEA BASIN

10259300 WHITEWATER RIVER AT INDIO, CA

LOCATION.--Lat 33°44'14", long 116°14'07", in SW 1/4 SE 1/4 NE 1/4 sec.15, T.5 S., R.7 E., Riverside County, Hydrologic Unit 18100200, on right bank of concrete drop structure, 1,000 ft upstream from Monroe Street bridge, and 1.7 mi northwest of Indio.

DRAINAGE AREA.--1,073 mi².

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

GAGE.--Water-stage recorder and crest-stage gage. Concrete control since Oct. 1, 1979. Altitude of gage is 0 ft, from topographic map. Prior to Oct. 1, 1979, water-stage recorder at site 0.5 mi upstream at different datum. Oct. 1, 1979 to Feb. 17, 1983, at datum 1.03 ft lower.

REMARKS.--Records good. No regulation above station. Water diverted from tributary streams for municipal supply in vicinity of Palm Springs.

AVERAGE DISCHARGE.--18 years, 3.76 ft³/s, 2,720 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,400 ft³/s Jan. 25, 1969, gage height, 14.41 ft, site and datum then in use, from rating curve extended above 1,300 ft³/s on basis of slope-area measurement at gage height 15.3 ft, for flood of Nov. 22, 1965; 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, on basis of slope-area measurement at site 5.0 mi upstream. Flood of November 22, 1965, reached a stage of 15.3 ft from floodmarks, at site and datum used prior to Oct. 1, 1979, discharge 14,100 ft³/s on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s and maximum (*), from rating curve extended above 450 ft³/s on basis of critical-depth study:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 25	2045	975	2.93
July 22	1845	*1,090	3.01
Aug. 14	1430	627	2.69

Minimum daily discharge, no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	.45		0	.15			0	0	
2	0	0	0	.02		0	0			0	0	
3	0	0	0	0		0	0			0	0	
4	.33	0	0	0		0	0			0	0	
5	0	0	0	0		0	0			0	0	
6	0	0	0	0		0	0			0	0	
7	0	0	0	0		2.0	0			0	0	
8	0	0	0	0		.02	0			0	0	
9	0	0	0	0		0	0			0	0	
10	0	0	0	0		0	0			0	0	
11	.24	0	0	0		0	0			0	0	
12	0	0	0	0		0	0			0	0	
13	0	0	0	0		0	0			.20	0	
14	0	0	0	0		0	0			0	41	
15	0	0	0	0		0	0			0	10	
16	0	0	0	0		0	0			0	.06	
17	0	0	0	0		0	0			0	0	
18	0	0	0	0		0	0			0	0	
19	0	0	0	0		0	0			0	1.0	
20	0	0	0	0		0	0			0	0	
21	0	0	0	0		0	4.8			0	0	
22	0	0	0	0		0	0			83	0	
23	0	0	0	0		0	0			2.7	0	
24	0	0	.03	0		0	0			0	0	
25	0	0	140	0		0	0			0	0	
26	0	1.3	295	0		0	0			0	0	
27	0	0	24	0		.64	0			0	0	
28	0	0	2.8	0		0	0			9.6	0	
29	0	0	1.5	0		0	0			0	0	
30	0	0	.74	0		.76	0			2.0	0	
31	0	---	.67	0		.30	---			0	0	
TOTAL	0.57	1.3	464.74	0.47	0	3.92	4.95	0	0	97.50	52.06	0
MEAN	.018	.043	15.0	.015	0	.13	.16	0	0	3.15	1.68	0
MAX	.33	1.3	295	.45	0	2.0	4.8	0	0	83	41	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	1.1	2.6	922	.9	0	7.8	9.8	0	0	193	103	0
CAL YR 1983	TOTAL	1849.93	MEAN	5.07	MAX	535	MIN	0	AC-FT	3670		
WTR YR 1984	TOTAL	625.51	MEAN	1.71	MAX	295	MIN	0	AC-FT	1240		

10259540 WHITEWATER RIVER NEAR MECCA, CA

LOCATION.--Lat 33°31'29", long 116°04'36", in NW 1/4 NW 1/4 NW 1/4 sec.32, T.7 S., R.9 E., Riverside County, Hydrologic Unit 18100200, on left bank 1.6 mi upstream from mouth at Salton Sea, and 3.3 mi south of Mecca.

DRAINAGE AREA.--1,495 mi².

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 221.00 ft below National Geodetic Vertical Datum of 1929 (levels by Coachella County Water District). Oct. 1, 1960, to Mar. 22, 1967, at site 1.3 mi downstream and Mar. 23, 1967, to July 22, 1970, at site 0.7 mi downstream at different datums.

REMARKS.--Records fair. Most of the flow represents seepage and return flow from irrigated areas.

COOPERATION.--Twelve discharge measurements were furnished by Coachella Valley County Water District.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,500 ft³/s Jan. 25, 1969, estimated; minimum daily, 37 ft³/s Nov. 25-29, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 313 ft³/s Dec. 26; minimum daily, 75 ft³/s Sept. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	120	94	79	121	135	129	103	102	110	115	89
2	110	97	93	84	140	135	122	112	109	110	110	95
3	120	100	92	95	127	130	114	116	109	105	110	91
4	115	106	91	101	135	130	111	115	107	105	105	88
5	115	106	90	103	137	130	124	112	101	105	100	90
6	115	113	90	103	115	130	130	108	100	105	100	97
7	110	115	89	101	115	125	121	100	95	100	95	106
8	137	142	84	101	113	125	121	102	92	100	101	104
9	148	142	88	101	113	125	108	113	96	100	112	104
10	140	102	89	103	140	125	103	113	103	100	117	111
11	124	102	95	107	132	120	106	105	95	100	118	114
12	122	120	91	105	122	120	107	107	90	100	113	111
13	140	111	86	113	111	120	111	121	88	101	98	108
14	111	95	91	107	120	120	128	121	92	110	106	112
15	84	84	91	109	117	141	123	98	88	116	191	97
16	93	86	94	108	127	124	123	95	100	118	147	96
17	99	85	101	98	120	140	113	97	104	117	107	102
18	93	84	113	101	127	144	106	96	111	129	109	98
19	91	84	111	103	124	133	104	102	90	129	111	88
20	88	96	103	103	124	123	107	99	83	129	106	85
21	99	91	96	110	120	120	120	104	90	154	105	85
22	100	78	100	117	113	115	120	107	101	178	93	80
23	104	91	99	106	115	111	118	108	103	291	87	88
24	106	92	103	108	120	123	103	105	104	162	92	83
25	104	93	127	112	125	127	95	101	112	117	92	75
26	95	93	313	120	130	122	105	106	110	127	104	76
27	111	94	115	112	130	112	116	96	110	120	98	78
28	209	94	84	123	135	122	117	98	110	142	89	83
29	197	95	80	167	140	135	116	102	110	124	88	83
30	127	94	78	115	---	120	116	100	110	120	93	87
31	120	---	81	107	---	121	---	105	---	120	97	---
TOTAL	3627	3005	3152	3322	3608	3903	3437	3267	3015	3844	3309	2804
MEAN	117	100	102	107	124	126	115	105	100	124	107	93.5
MAX	209	142	313	167	140	144	130	121	112	291	191	114
MIN	84	78	78	79	111	111	95	95	83	100	87	75
AC-FT	7190	5960	6250	6590	7160	7740	6820	6480	5980	7620	6560	5560

CAL YR 1983 TOTAL 47067 MEAN 129 MAX 1580 MIN 45 AC-FT 93360
WTR YR 1984 TOTAL 40293 MEAN 110 MAX 313 MIN 75 AC-FT 79920

MOJAVE RIVER BASIN

10260500 DEEP CREEK NEAR HESPERIA, CA

LOCATION.--Lat 34°20'28", long 117°13'39", in NW 1/4 NE 1/4 SE 1/4 sec.18, T.3 N., R.3 W., San Bernardino County, Hydrologic Unit 18090208, on right bank 0.5 mi upstream from confluence with West Fork Mojave River at Mojave River Forks Dam, 7 mi southeast of Hesperia, and 11 mi downstream from Lake Arrowhead.

DRAINAGE AREA.--134 mi².

PERIOD OF RECORD.--October 1904 to September 1922, October 1929 to current year. Prior to January 1930, monthly discharge only, published in WSP 1314.

GAGE.--Water-stage recorder. Broad-crested weir since December 1938. Altitude of gage is 3,050 ft, from topographic map. See WSP 1314 for history of changes prior to Dec. 10, 1938.

REMARKS.--Records good. Slight regulation by Lake Arrowhead, capacity, 48,000 acre-ft, used principally for recreation.

AVERAGE DISCHARGE.--73 years, 72.4 ft³/s, 52,450 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46,600 ft³/s Mar. 2, 1938, gage height unknown, based on slope-area measurement of peak flow; maximum gage height, 23.81 ft Feb. 10, 1978 (backwater from Mojave Forks Reservoir); no flow July 17, 18, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s and maximum (*), from rating curve extended above 3,400 ft³/s on basis of slope-area measurement at gage height 11.30 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	1315	539	3.10	Dec. 25	1615	*4,690	6.06
Nov. 25	0530	996	3.54				

Minimum daily, 1.2 ft³/s July 12, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	215	19	40	89	24	19	19	14	3.9	2.2	6.9	2.3
2	123	19	45	82	24	19	23	14	3.9	2.2	5.5	2.3
3	72	19	70	75	23	19	22	13	3.8	2.1	4.6	2.3
4	63	19	184	69	23	19	21	12	3.8	2.1	3.5	2.2
5	80	19	93	60	23	19	20	12	3.8	2.0	2.9	2.2
6	62	18	75	57	23	18	20	11	4.0	2.0	2.5	2.1
7	54	18	67	54	23	18	19	11	4.6	1.9	2.2	2.1
8	49	18	62	52	22	18	19	10	4.8	1.8	2.1	2.0
9	44	17	58	50	22	18	19	9.7	4.7	1.7	1.8	1.9
10	39	17	57	48	22	18	18	9.4	4.4	1.5	2.0	1.9
11	35	16	51	45	22	18	17	8.9	4.1	1.3	1.8	2.0
12	32	30	48	43	22	18	16	8.5	3.9	1.2	1.4	2.4
13	30	54	45	34	22	18	16	8.1	3.8	1.2	2.1	3.0
14	27	39	43	33	22	18	15	7.7	3.7	1.3	2.8	3.1
15	27	27	41	32	21	20	15	7.5	3.7	1.6	4.6	3.0
16	27	23	39	30	21	19	14	8.2	3.6	5.6	4.0	2.7
17	26	22	37	30	22	19	14	8.3	3.4	7.2	4.5	2.6
18	26	21	36	28	22	18	14	7.8	3.1	5.8	4.3	3.6
19	25	20	34	28	22	18	14	7.4	2.8	5.0	5.1	4.2
20	24	20	33	27	21	17	15	6.9	2.8	5.6	9.9	7.2
21	23	27	32	28	21	17	15	6.4	2.6	4.8	9.3	6.9
22	22	26	31	28	21	17	14	6.2	2.7	4.3	8.8	5.2
23	22	23	30	27	21	17	14	6.1	2.6	3.8	8.6	4.1
24	21	22	30	27	20	17	14	5.9	2.6	3.5	5.8	3.8
25	20	238	2250	26	21	17	13	5.5	2.5	3.3	4.0	3.8
26	19	80	799	26	21	17	14	5.4	2.5	3.0	2.9	3.9
27	19	50	276	26	20	17	15	5.0	2.4	2.9	3.0	4.1
28	19	39	183	25	20	16	15	4.6	2.4	2.8	2.8	4.1
29	19	34	136	25	19	16	15	4.2	2.3	4.0	2.7	4.1
30	19	31	114	24	---	16	15	4.1	2.3	7.1	2.4	4.3
31	19	---	100	24	---	16	---	4.0	---	7.9	2.3	---
TOTAL	1302	1025	5139	1252	630	551	494	252.8	101.5	102.7	127.1	99.4
MEAN	42.0	34.2	166	40.4	21.7	17.8	16.5	8.15	3.38	3.31	4.10	3.31
MAX	215	238	2250	89	24	20	23	14	4.8	7.9	9.9	7.2
MIN	19	16	30	24	19	16	13	4.0	2.3	1.2	1.4	1.9
AC-FT	2580	2030	10190	2480	1250	1090	980	501	201	204	252	197
CAL YR 1983	TOTAL	75956.4	MEAN	208.1	MAX	8280	MIN	16	AC-FT	150660		
WTR YR 1984	TOTAL	11076.5	MEAN	30.3	MAX	2250	MIN	1.2	AC-FT	21970		

10260620 HOUSTON CREEK ABOVE LAKE GREGORY AT CRESTLINE, CA

LOCATION.--Lat 34°14'33", long 117°16'48", in NW 1/4 NE 1/4 SE 1/4 sec.22, T.2 N., R.4 W., San Bernardino County, Hydrologic Unit 18090208, on left bank 0.1 mi east of Wildrose Road and 0.1 mi southeast of intersection of Lake Gregory Road and Wildrose Road, and 0.3 mi east of Crestline.

DRAINAGE AREA.--0.35 mi².

PERIOD OF RECORD.--March 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,540 ft, from topographic map.

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

AVERAGE DISCHARGE.--5 years, 0.99 ft³/s, 717 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 295 ft³/s Feb. 19, 1980, gage height, 7.40 ft, from rating curve extended above 68 ft³/s on basis of slope-conveyance study at gage height 7.40 ft; no flow many days in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 50 ft³/s and maximum (*), from rating curve extended above 68 ft³/s on basis of slope-conveyance study at gage height 7.40 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	0515	85	6.46	Aug. 15	0245	58	6.10
Dec. 25	1330	*186	7.04				

Minimum daily, 0.01 ft³/s, many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	.40	.13	.65	.12	.09	.49	.06	.01	.02	.01	.02
2	.38	.09	.10	.58	.12	.09	.17	.06	.01	.02	.01	.02
3	.12	.09	4.5	.48	.12	.09	.16	.05	.01	.02	.01	.02
4	.12	.09	.67	.40	.11	.09	.16	.05	.01	.02	.01	.02
5	.16	.12	.27	.40	.12	.09	.16	.04	.01	.01	.01	.02
6	.10	.12	.15	.35	.11	.09	.43	.04	.03	.01	.01	.02
7	.44	.27	.11	.33	.11	.08	.19	.03	.01	.01	.01	.02
8	.10	.11	.09	.30	.11	.09	.19	.03	.01	.01	.01	.02
9	.10	.12	.35	.29	.10	.08	.19	.03	.01	.01	.01	.02
10	.10	.12	.09	.28	.13	.07	.19	.03	.01	.01	.01	.03
11	.10	2.1	.06	.26	.12	.06	.14	.03	.01	.01	.01	.05
12	.10	3.7	.06	.25	.12	.06	.08	.02	.01	.01	.01	.03
13	.10	.50	.05	.43	.12	.06	.08	.02	.01	.01	.01	.04
14	.10	.11	.04	.17	.11	.86	.08	.02	.01	.01	.01	.05
15	.10	.06	.04	.16	.10	.15	.07	.02	.01	.02	1.8	.05
16	.10	.03	.03	.16	.12	.14	.07	.01	.01	.01	.02	.05
17	.10	.53	.03	.15	.11	.14	.06	.01	.01	.01	.02	.03
18	.10	.94	.03	.14	.09	.14	.07	.01	.01	.01	.03	.05
19	.10	.13	.03	.14	.09	.14	.17	.01	.01	.02	.04	.02
20	.10	.34	.03	.14	.08	.14	.06	.01	.02	.01	.03	.02
21	.10	.11	.03	.14	.09	.13	.06	.01	.02	.01	.02	.02
22	.10	.07	.03	.14	.08	.12	.06	.01	.01	.01	.03	.02
23	.10	.06	.03	.13	.08	.12	.06	.01	.01	.01	.03	.02
24	.10	6.2	2.0	.13	.08	.13	.06	.01	.01	.01	.03	.02
25	.10	2.0	26	.13	.09	.13	.06	.01	.02	.01	.03	.01
26	.10	.64	7.9	.14	.09	.15	.06	.01	.02	.01	.02	.01
27	.10	.44	5.4	.16	.09	.13	.05	.01	.01	.01	.02	.01
28	.10	.34	2.9	.15	.09	.15	.05	.01	.01	.01	.02	.01
29	.10	.20	1.6	.17	.09	.16	.05	.01	.01	.01	.02	.01
30	.10	.14	.95	.19	---	.16	.06	.01	.02	.01	.02	.01
31	.10	---	.80	.15	---	.16	---	.01	---	.01	.03	---
TOTAL	14.72	20.17	54.50	7.69	2.99	4.29	3.78	0.69	0.37	0.37	2.35	0.74
MEAN	.47	.67	1.76	.25	.10	.14	.13	.022	.012	.012	.076	.025
MAX	11	6.2	26	.65	.13	.86	.49	.06	.03	.02	1.8	.05
MIN	.10	.03	.03	.13	.08	.06	.05	.01	.01	.01	.01	.01
AC-FT	29	40	108	15	5.9	8.5	7.5	1.4	.7	.7	4.7	1.5
CAL YR 1983	TOTAL	567.06	MEAN	1.55	MAX	34	MIN	.03	AC-FT	1120		
WTR YR 1984	TOTAL	112.66	MEAN	.31	MAX	26	MIN	.01	AC-FT	223		

MOJAVE RIVER BASIN

10260630 ABONDIGAS CREEK ABOVE LAKE GREGORY AT CRESTLINE, CA

LOCATION.--Lat 34°14'16", long 117°15'51", in SE 1/4 SW 1/4 SE 1/4 sec.23, T.2 N., R.4 W., San Bernardino County, Hydrologic Unit 18090208, on right bank 80 ft north of south gate for San Moritz Park, and 1.4 mi east of Crestline.

DRAINAGE AREA.--1.15 mi².

PERIOD OF RECORD.--March 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,550 ft, from topographic map.

REMARKS.--Records good except for periods of no gage-height record, which are poor.

AVERAGE DISCHARGE.--5 years, 1.87 ft³/s, 1,350 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 580 ft³/s Feb. 27, 1983, gage height, 6.32 ft, from rating curve extended above 94 ft³/s on basis of field estimate of peak flow; maximum gage height, 7.28 ft, Jan. 29, 1980; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, unknown Dec. 25, gage height, unknown, other peaks above base may have occurred Oct. 1 and Aug. 15; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	.33	.24	1.2	.60	.40	1.0	.28	.10		0	
2	.87	.17	.18	1.2	.60	.40	.60	.26	.10		0	
3	.28	.17	8.3	1.2	.60	.40	.40	.24	.10		0	
4	.22	.17	1.2	1.2	.60	.30	.20	.23	.10		0	
5	.29	.22	.50	1.1	.60	.30	.20	.23	.10		0	
6	.18	.22	.28	1.0	.50	.30	.20	.23	.05		0	
7	.77	.50	.20	1.0	.50	.30	.20	.22	.05		0	
8	.20	.20	.17	1.0	.50	.30	.20	.20	.05		0	
9	.22	.22	.64	.90	.50	.20	.20	.20	.05		0	
10	.22	.26	.17	.80	.50	.20	.20	.19	.05		0	
11	.20	4.1	.11	.80	.50	.20	.29	.18	.05		0	
12	.22	7.2	.11	.80	.50	.20	.30	.16	.05		0	
13	.18	1.1	.09	1.1	.50	.30	.30	.15	.05		0	
14	.22	.28	.07	1.0	.50	1.1	.29	.17	.05		0	
15	.24	.15	.07	.90	.50	.40	.27	.20	.05		.24	
16	.17	.09	.06	.80	.50	.20	.27	.19	.05		0	
17	.15	1.1	.06	.70	.50	.20	.28	.19	0		0	
18	.13	1.8	.06	.60	.50	.20	.30	.18	0		0	
19	.18	.29	.06	.60	.50	.20	.42	.16	0		0	
20	.17	.63	.06	.60	.50	.20	.33	.15	0		0	
21	.15	.20	.06	.60	.40	.20	.30	.15	0		0	
22	.11	.13	.06	.60	.40	.20	.27	.15	0		0	
23	.11	.11	.06	.60	.40	.20	.30	.15	0		0	
24	.15	11	3.7	.60	.40	.20	.30	.16	0		0	
25	.18	3.7	46	.60	.40	.20	.30	.15	0		0	
26	.15	1.2	14	.60	.40	.20	.32	.15	0		0	
27	.17	.81	9.6	.60	.40	.20	.41	.15	0		0	
28	.17	.63	5.0	.60	.40	.20	.33	.16	0		0	
29	.17	.37	2.6	.60	.40	.20	.30	.10	0		0	
30	.17	.26	1.8	.60	.40	.20	.28	.10	0		0	
31	.20		1.2	.60		.20		.10			0	
TOTAL	26.84	37.61	96.71	25.10	14.10	8.50	9.56	5.53	1.05	0	.24	0
MEAN	.87	1.25	3.12	.81	.49	.27	.32	.18	.035	0	.008	0
MAX	20	11	46	1.2	.60	1.1	1.0	.28	.10	0	.24	0
MIN	.11	.09	.06	.60	.40	.20	.20	.10	0	0	0	0
AC-FT	53	75	192	50	28	17	19	11	2.1	0	.50	0
CAL YR 1983	TOTAL	1359.03	MEAN	3.72	MAX	100	MIN	.06	AC-FT	2700		
WTR YR 1984	TOTAL	225.98	MEAN	.62	MAX	46	MIN	0	AC-FT	448		

NOTE.--No gage-height record Oct. 1 to Apr. 11, May 28 to June 21.

10260640 LAKE GREGORY AT CRESTINE, CA

LOCATION.--Lat 34°14'35", long 117°16'22", in NE 1/4 NW 1/4 SW 1/4 sec.23, T.2 N., R.4 W., San Bernardino County, Hydrologic Unit 18090208, in boathouse on north side of Lake Gregory, 0.8 mi east of Lake Gregory Drive, and 0.9 mi east of Crestline.

DRAINAGE AREA.--2.66 mi².

PERIOD OF RECORD.--August 1978 to current year. Records for September 1966 through November 1971 in files of California Department of Water Resources.

GAGE.--Water-stage recorder. Datum of gage is 4,510.00 ft, based on map from land survey of 1892 (see Remarks paragraph); approximately 4,517.0 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Lake is formed by earth-type dam. Dam was completed to a height of 90 ft in 1938. Capacity table developed from land survey dated 1892 (furnished by California Department of Water Resources). Capacity is 2,070 acre-ft below spillway elevation, 4,517.0 ft. Water is released from lake to Houston Creek for eventual water supply and recreational use in Silverwood Lake, 4.5 mi downstream. Spillway elevation is raised by addition of flashboards to accommodate summer recreational use.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents recorded, 2,360 acre-ft Jan. 29, 1980, elevation, 4,520.33 ft; minimum, 1,960 acre-ft Sept. 30, 1984, elevation, 4,515.67 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents recorded, 2,210 acre-ft Dec. 25, elevation, 4,518.58 ft; minimum, 1,960 acre-ft Sept. 30, elevation, 4,515.67 ft.

MONTHEND ELEVATION, 1892 DATUM, AND CONTENTS, AT 0800 HRS, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	4,517.10	2,080	--
Oct. 31.....	4,517.18	2,090	+10
Nov. 30.....	4,517.30	2,100	+10
Dec. 31.....	4,517.37	2,100	0
CAL YR 1983.....	--	--	-10
Jan. 31.....	4,517.30	2,100	0
Feb. 29.....	4,517.45	2,110	+10
Mar. 31.....	4,517.18	2,090	-20
Apr. 30.....	4,517.48	2,110	+20
May 31.....	4,517.20	2,090	-20
June 30.....	4,516.80	2,060	-30
July 31.....	4,516.42	2,020	-40
Aug. 31.....	4,516.10	2,000	-20
Sept. 30.....	4,515.67	1,960	-40
WTR YEAR 1984.....	--	--	-120

LOCATION.--Lat 34°14'54", long 117°16'05", SW 1/4 NE 1/4 NW 1/4 sec.23, T.2 N., R.4 W., San Bernardino County, Hydrologic Unit 18090208, on left bank of channel on Camp Switzerland campgrounds, 0.2 mi downstream from Lake Gregory spillway, 0.5 mi east of the intersection of Lake Gregory Road and Lake Gregory Drive, and 1.2 mi northeast of Crestline.

PERIOD OF RECORD.--March 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,440 ft, from topographic map.

REMARKS.--Records good. Flow regulated by Lake Gregory (10260640) 0.2 mi upstream, usable capacity, 2,070 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 570 ft³/s Jan. 29, 1980, gage height, 7.31 ft, from rating curve extended above 180 ft³/s on basis of velocity-area study of peak flow; no flow for several days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 150 ft³/s Dec. 25, gage height, 6.20 ft; no flow Aug. 26 to Sept. 9.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	.09	.71	4.8	.34	.24	.09	.07	.05	.01	.05	0
2	16	.15	.78	3.6	.21	.30	.06	.07	.05	.01	.04	0
3	6.6	.17	11	3.0	.58	.29	.06	.07	.02	.01	.04	0
4	3.4	.20	13	2.9	.84	.41	.06	.08	.02	.01	.03	0
5	2.6	.21	5.9	2.8	1.2	.13	.06	.08	.03	.02	.04	0
6	1.9	.24	3.4	2.8	1.1	.30	.06	.07	.04	.02	.04	0
7	2.4	.19	2.3	2.4	1.5	.06	.06	.07	.04	.02	.03	0
8	2.0	.13	1.2	2.1	1.0	.02	.06	.07	.02	.03	.03	0
9	1.2	.17	1.6	1.9	.69	.02	.05	.07	.02	.03	.03	0
10	1.1	.21	1.5	2.0	.48	1.7	.05	.07	.02	.03	.03	.01
11	1.2	.57	1.3	1.9	.52	2.1	.05	.07	.02	.03	.03	.01
12	1.4	19	.91	1.9	.70	1.2	.06	.06	.02	.03	1.3	.01
13	1.4	12	.85	2.5	.69	.99	.06	.06	.02	.03	.03	.01
14	1.3	4.4	.83	3.3	.66	5.3	.06	.06	.03	.05	.03	.01
15	.52	2.1	.76	2.3	.66	3.9	.05	.07	.03	.06	.42	.02
16	.12	1.1	.55	2.1	1.2	2.1	.05	.07	.03	.07	.05	.04
17	.16	.99	.40	1.9	1.2	1.4	.06	.07	.03	.05	.03	.04
18	.14	3.3	.38	1.7	1.3	.86	.06	.07	.02	.05	.01	.05
19	.26	2.0	.19	1.4	1.1	.68	.07	.06	.02	.06	.02	.03
20	.33	1.9	.21	1.4	.96	.62	.07	.06	.02	.04	.02	.03
21	.28	1.3	.31	1.4	.60	.56	.07	.06	.02	.03	.01	.03
22	.28	.92	.11	1.5	.11	.48	.07	.06	.02	.04	.01	.04
23	.14	.61	.28	1.3	.27	.44	.07	.05	.02	.04	.02	.04
24	.10	5.3	1.4	1.3	.11	.50	.07	.05	.03	.04	.01	.04
25	.17	23	98	1.3	.09	.44	.07	.05	.02	.03	.01	.04
26	.17	8.5	39	1.1	.20	.56	.07	.05	.02	.03	0	.04
27	.17	4.1	23	1.1	.36	.47	.08	.05	.02	.03	0	.04
28	.26	2.5	14	1.3	.16	.41	.07	.05	.02	.05	0	.05
29	.28	1.6	9.3	1.4	.13	.45	.07	.05	.01	.09	0	.04
30	.17	.99	7.4	.99	---	.21	.07	.05	.01	.06	0	.05
31	.11	---	6.0	.66	---	.07	---	.05	---	.05	0	---
TOTAL	110.16	97.94	246.57	62.05	18.96	27.21	1.91	1.94	0.74	1.15	1.09	0.67
MEAN	3.55	3.26	7.95	2.00	.65	.88	.064	.063	.025	.037	.035	.022
MAX	64	23	98	4.8	1.5	5.3	.09	.08	.05	.09	.42	.05
MIN	.10	.09	.11	.66	.09	.02	.05	.05	.01	.01	0	0
AC-FT	219	194	489	123	38	54	3.8	3.8	1.5	2.3	2.2	1.3
CAL YR 1983	TOTAL 2914.41		MEAN 7.98	7.98	MAX 126	MIN .01	AC-FT 5780					
WTR YR 1984	TOTAL 570.39		MEAN 1.56	1.56	MAX 98	MIN 0	AC-FT 1130					

10261000 WEST FORK MOJAVE RIVER NEAR HESPERIA, CA

LOCATION.--Lat 34°20'20", long 117°15'25", in NW 1/4 NW 1/4 sec.24, T.3 N., R.4 W., San Bernardino County, Hydrologic Unit 18090208, on left bank on upstream wingwall of concrete double box culvert on Arrowhead Lake Road, 0.1 mi northeast of junction with Highway 174, 4.5 mi downstream from Cedar Springs Dam, and 6.5 mi southeast of Hesperia.

DRAINAGE AREA.--70.3 mi².

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, from topographic map. Prior to June 30, 1922, nonrecording gage or water-stage recorder 1.6 mi downstream at different datum. June 30, 1922 to September 1971, water-stage recorder 1.5 mi downstream at different datum. June 30, 1942 to Apr. 14, 1966, at datum 2.00 ft higher than datum then in use.

REMARKS.--Records fair. Since 1972 regulated by Cedar Springs Dam (holding basin for imported water), total capacity, 78,000 acre-ft, 4.5 mi upstream.

AVERAGE DISCHARGE.--60 years (water years 1905-22, 1930-71), 39.4 ft³/s, 28,550 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,100 ft³/s Mar. 2, 1938, gage height unknown, on basis of slope-area measurement of peak flow; no flow for several months in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,180 ft³/s Dec. 25, gage height, 3.93 ft; no flow for many days.

REVISIONS.--Revised daily discharge, in cubic feet per second, for Sept. 30, 1983, and revised monthly figures for September are given below. These figures supersede those published in the report for 1983.

Date	Daily Discharge											
Sept. 30, 1983	15											
SEPTEMBER	TOTAL	22.5	MEAN	0.75	MAX	15	MIN	0	AC-FT	44.6		
DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984												
MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	7.1	12	18	6.8	7.4	4.2					
2	190	8.7	11	15	6.2	7.4	3.3					
3	45	6.2	28	12	6.2	7.1	3.0					
4	11	6.2	20	13	5.1	6.8	2.6					
5	18	6.2	12	15	5.1	6.2	3.0					
6	7.4	6.2	10	14	5.1	6.8	4.2					
7	8.0	6.2	10	13	5.7	6.2	3.8					
8	7.4	5.7	9.4	12	4.7	6.2	3.0					
9	7.4	5.1	9.4	12	3.0	6.2	2.6					
10	5.7	5.1	8.7	11	3.3	8.7	2.6					
11	7.4	5.7	8.7	11	3.0	8.0	2.3					
12	8.7	10	9.4	10	3.8	6.2	2.3					
13	7.4	12	9.4	10	5.1	6.2	4.2					
14	6.8	10	9.4	11	3.3	5.7	5.1					
15	6.2	9.4	9.4	9.4	5.1	4.7	5.1					
16	6.8	10	8.7	9.4	3.3	4.7	4.2					
17	6.8	9.4	8.0	8.7	3.0	3.8	2.3					
18	6.8	8.7	8.7	10	3.0	3.8	0					
19	9.4	8.7	8.0	14	3.0	4.2	0					
20	10	9.4	8.7	13	2.6	5.7	0					
21	6.8	9.4	7.4	14	3.0	4.2	0					
22	6.8	8.7	8.7	14	3.0	3.8	0					
23	7.4	9.4	12	12	3.3	3.8	0					
24	8.7	11	12	12	5.7	3.8	0					
25	8.7	32	523	13	5.7	3.8	0					
26	8.0	12	559	12	4.7	3.8	0					
27	8.0	11	444	9.4	5.7	3.3	0					
28	8.7	12	211	10	5.1	3.0	0					
29	8.0	13	82	10	5.6	3.3	0					
30	7.3	12	28	12	---	3.0	0					
31	7.2	---	20	8.7	---	3.3	---					
TOTAL	583.8	286.5	2126.0	368.6	128.2	161.1	57.8	0	0	0	0	0
MEAN	18.8	9.55	68.6	11.9	4.42	5.20	1.93	0	0	0	0	0
MAX	190	32	559	18	6.8	8.7	5.1	0	0	0	0	0
MIN	5.7	5.1	7.4	8.7	2.6	3.0	0	0	0	0	0	0
AC-FT	1160	568	4220	731	254	320	115	0	0	0	0	0
CAL YR 1983	TOTAL	59062.35	MEAN	162	MAX	4490	MIN	0	AC-FT	117100		
WTR YR 1984	TOTAL	3712.0	MEAN	10.1	MAX	559	MIN	0	AC-FT	7360		

10261100 MOJAVE RIVER BELOW MOJAVE FORKS RESERVOIR, NEAR HESPERIA, CA

LOCATION.--Lat 34°20'38", long 117°14'15", in SW 1/4 NE 1/4 SW 1/4 sec.18, T.3 N., R.3 W., San Bernardino County, Hydrologic Unit 18090208, on left bank of reservoir outlet channel, 6.2 mi downstream from Silverwood Lake on West Fork Mojave River, 6.5 mi southeast of Hesperia, and 12.2 mi downstream of Lake Arrowhead on Deep Creek (East Fork Mojave River).

DRAINAGE AREA.--211 mi².

PERIOD OF RECORD.--October 1971 to September 1974, October 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,000 ft, from topographic map.

REMARKS.--Records poor. Flow partially regulated by Lake Arrowhead, capacity, 48,000 acre-ft used principally for recreation, Silverwood Lake, capacity, 78,000 acre-ft used for the storage and distribution of imported water and recreation, and Mojave Forks Reservoir, capacity, 89,700 acre-ft used for flood control with ungated opening, release capacity, 23,500 ft³/s. Silverwood Reservoir releases all natural inflow to the west fork of the Mojave River as soon as possible after a storm. Sewage effluent from Lake Arrowhead area is released above gage at times.

AVERAGE DISCHARGE.--7 years (water years 1972-74, 1981-84), 94.8 ft³/s, 68,680 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 11,700 ft³/s Mar. 2, 1983, on basis of flood routing; no flow for many days in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,870 ft³/s Dec. 25, on basis of flood routing; no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	337	22	52	107	31	25	19	6.5	.85	0	2.9	
2	313	24	56	97	30	27	20	6.5	.85	0	1.7	
3	117	21	98	87	28	27	20	6.1	.84	0	.80	
4	74	21	204	82	27	26	20	6.5	.84	0	0	
5	98	21	105	75	27	26	19	6.5	.83	0	0	
6	66	20	85	71	27	25	19	6.5	.93	0	0	
7	59	20	77	67	29	23	19	6.1	.93	0	0	
8	53	20	71	64	27	20	18	6.1	1.0	0	0	
9	48	18	67	62	24	20	16	5.4	.83	0	0	
10	42	18	66	59	24	20	15	4.9	.83	0	0	
11	39	18	60	56	24	22	14	3.7	.60	0	0	
12	38	37	57	53	24	22	13	3.5	.60	0	0	
13	34	66	54	44	25	22	14	3.3	.60	0	0	
14	31	49	52	44	24	21	15	3.3	.58	0	0	
15	30	29	50	41	25	22	15	3.4	.57	0	0	
16	31	26	48	39	23	22	15	3.5	.54	0	0	
17	29	24	45	39	25	22	12	3.5	.48	0	0	
18	29	23	45	38	24	21	12	3.5	.16	0	0	
19	30	22	42	42	23	22	11	3.5	.03	0	0	
20	30	22	42	40	22	21	12	3.3	0	.05	.05	
21	26	29	39	42	22	20	12	3.1	0	.01	.05	
22	25	28	40	42	24	20	11	2.8	0	.01	0	
23	25	25	42	39	25	19	11	2.7	0	0	.40	
24	26	26	42	39	27	19	10	2.5	0	0	.10	
25	25	270	2770	39	27	20	9.2	1.7	0	0	0	
26	23	92	1360	38	25	20	8.8	1.5	0	0	0	
27	23	61	720	35	26	19	8.3	1.4	0	0	0	
28	24	51	394	35	26	16	7.6	1.2	0	0	0	
29	23	47	218	35	25	17	7.2	1.1	0	0	0	
30	22	43	142	36	---	17	6.8	1.0	0	0	0	
31	22	---	120	33	---	17	---	.90	---	3.5	0	
TOTAL	1792	1193	7263	1620	740	660	409.9	115.50	12.89	3.57	6.00	0
MEAN	57.8	39.8	234	52.3	25.5	21.3	13.7	3.73	.43	.12	.19	0
MAX	337	270	2770	107	31	27	20	6.5	1.0	3.5	2.9	0
MIN	22	18	39	33	22	16	6.8	.90	0	0	0	0
AC-FT	3550	2370	14410	3210	1470	1310	813	229	26	7.1	12	0
CAL YR 1983	TOTAL	134807.20	MEAN	369	MAX	11700	MIN	4.9	AC-FT	267400		
WTR YR 1984	TOTAL	13815.86	MEAN	37.7	MAX	2770	MIN	0	AC-FT	27400		

10261500 MOJAVE RIVER AT LOWER NARROWS, NEAR VICTORVILLE, CA

LOCATION.--Lat 34°34'23", long 117°19'11", in SW 1/4 SW 1/4 SE 1/4 sec.29, T.6 N., R.4 W., San Bernardino County, Hydrologic Unit 18090208, on left bank 650 ft upstream from bridge on county road, formerly U.S. Highway 66, 0.6 mi downstream from Atchison, Topeka, and Santa Fe Railway bridge, 3 mi northwest of Victorville, 17.8 mi downstream from Mojave Forks Reservoir, 24 mi downstream from Silverwood Lake on the West Fork Mojave River, and 30 mi downstream of Lake Arrowhead on Deep Creek (East Fork Mojave River).

DRAINAGE AREA.--513 mi².

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 National Geodetic Vertical Datum 1929. See WSP 1314 for history of gage changes prior to Mar. 28, 1938. Mar. 28, 1938, to Apr. 14, 1966, at site 350 ft upstream at datum 5.00 ft higher; Apr. 15, 1966, to July 17, 1969, at site 350 ft upstream at datum 3.00 ft higher.

REMARKS.--Records fair. Regulation by Lake Arrowhead, capacity, 48,000 acre-ft used principally for recreation, Silverwood Lake, capacity, 78,000 acre-ft used for the storage and distribution of imported water and recreation, and Mojave Forks Reservoir, capacity, 89,700 acre-ft with ungated opening, capacity, 23,500 ft³/s. Diversions and pumping for irrigation of about 5,000 acres and Mojave State Fish Hatchery above station. During the year no imported water was released from Silverwood Lake into the West Fork Mojave River, only natural inflow.

AVERAGE DISCHARGE.--61 years (water years 1900-06, 1931-84), 80.6 ft³/s, 58,390 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 70,600 ft³/s Mar. 2, 1938, gage height, 23.7 ft, present datum, from rating curve extended above 10,000 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 3.4 ft³/s July 25, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 975 ft³/s Dec. 26, gage height, 4.82 ft, from rating curve extended above 7,100 ft³/s on basis of velocity-area study of peak flow; minimum daily, 15 ft³/s July 7-10, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	32	36	45	52	46	40	41	29	22	24	25
2	40	32	37	46	52	44	40	44	28	21	22	25
3	35	29	36	46	49	44	41	43	29	21	22	24
4	31	28	35	46	49	41	40	37	30	19	20	24
5	40	29	36	46	49	38	40	36	32	18	21	23
6	35	31	36	46	50	41	40	37	30	16	19	23
7	40	38	40	46	46	41	38	35	31	15	20	25
8	38	33	44	49	43	43	37	38	32	15	20	25
9	36	33	41	47	43	43	37	37	31	15	19	27
10	33	33	38	52	46	44	38	40	30	15	21	25
11	35	32	38	53	46	44	38	33	29	16	19	25
12	32	32	37	49	46	44	38	32	28	15	19	25
13	31	30	36	49	47	44	41	33	27	26	19	24
14	33	31	36	52	47	43	40	32	28	25	19	24
15	33	31	37	50	49	43	38	31	27	22	21	23
16	35	33	40	50	50	44	33	26	27	23	21	24
17	33	35	40	46	49	44	29	27	24	23	23	24
18	35	35	41	49	49	44	27	29	24	23	23	24
19	35	33	41	52	49	44	25	29	23	24	24	22
20	31	36	40	50	46	43	24	30	24	23	23	22
21	30	33	40	49	47	41	22	28	26	23	23	21
22	29	31	41	50	47	41	23	29	26	24	24	20
23	30	28	41	50	47	36	21	31	25	23	24	19
24	30	30	44	52	46	40	24	30	24	21	24	20
25	29	41	46	50	46	41	26	30	27	20	24	19
26	32	35	737	49	47	43	28	31	26	26	23	19
27	33	36	476	49	47	42	27	29	25	24	25	18
28	35	35	174	49	47	38	29	27	23	25	26	18
29	35	33	90	49	46	40	32	26	22	24	28	19
30	33	35	50	52	---	38	41	28	22	22	28	19
31	32	---	45	50	---	41	---	29	---	22	25	---
TOTAL	1062	983	2549	1518	1377	1303	997	1008	809	651	693	675
MEAN	34.3	32.8	82.2	49.0	47.5	42.0	33.2	32.5	27.0	21.0	22.4	22.5
MAX	53	41	737	53	52	46	41	44	32	26	28	27
MIN	29	28	35	45	43	36	21	26	22	15	19	18
AC-FT	2110	1950	5060	3010	2730	2580	1980	2000	1600	1290	1370	1340
CAL YR 1983	TOTAL	96180	MEAN	264	MAX	8950	MIN	14	AC-FT	190770		
WTR YR 1984	TOTAL	13625	MEAN	37.2	MAX	737	MIN	15	AC-FT	27030		

10262000 MOJAVE RIVER NEAR HODGE, CA

LOCATION.--Lat 34°50'09", long 117°11'27", in SW 1/4 SE 1/4 SE 1/4 sec.28, T.9 N., R.3 W., San Bernardino County, Hydrologic Unit 18090208, at county bridge 1.5 mi north of Hodge, 10.9 mi southwest of Barstow, and 42 mi downstream from Mojave Forks Reservoir, 48 mi downstream from Silverwood Lake on West Fork Mojave River, and 54 mi downstream of Lake Arrowhead on Deep Creek (East Fork Mojave River).

DRAINAGE AREA.--1,091 mi².

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, from topographic map. Prior to Oct. 1, 1970, at different datum.

REMARKS.--Records fair. Regulation by Lake Arrowhead, capacity 48,000 acre-ft used principally for recreation, Silverwood Lake, capacity, 78,000 acre-ft used for the storage and distribution of imported water and recreation, and Mojave Forks Reservoir, capacity 89,700 acre-ft, with ungated opening, capacity, 23,500 ft³/s. Diversion and pumping for irrigation of about 12,000 acres above station.

AVERAGE DISCHARGE.--16 years (water years 1931-32, 1971-84), 49.9 ft³/s, 36,170 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,700 ft³/s Feb. 10, 1978, gage height, 8.80 ft, on basis of slope-area measurement of peak flow; no flow all or most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 307 ft³/s Dec. 27, gage height, 6.62 ft; no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	0	8.1	12						
2			0	0	8.1	11						
3			0	0	9.1	12						
4			0	0	10	12						
5			0	0	10	10						
6			0	0	10	12						
7			0	0	14	12						
8			0	0	14	11						
9			0	0	11	11						
10			0	0	8.7	12						
11			0	0	8.0	16						
12			0	0	14	17						
13			0	0	17	16						
14			0	0	10	9.4						
15			0	0	9.4	9.4						
16			0	.28	8.7	8.0						
17			0	1.4	7.1	8.0						
18			0	.97	7.1	8.0						
19			0	2.7	8.0	8.0						
20			0	1.4	10	9.4						
21			0	4.5	21	9.4						
22			0	4.5	19	7.1						
23			0	4.5	11	8.0						
24			0	5.3	14	8.0						
25			0	7.2	8.7	8.7						
26			0	5.3	8.0	10						
27			205	3.2	14	2.0						
28			77	6.2	21	0						
29			22	8.1	19	.02						
30			1.9	8.1	---	0						
31			.03	8.1	---	0						
TOTAL	0	0	305.93	71.75	338.0	277.42	0	0	0	0	0	0
MEAN	0	0	9.87	2.31	11.7	8.95	0	0	0	0	0	0
MAX	0	0	205	8.1	21	17	0	0	0	0	0	0
MIN	0	0	0	0	7.1	0	0	0	0	0	0	0
AC-FT	0	0	607	142	670	550	0	0	0	0	0	0
CAL YR 1983	TOTAL 74972.74	MEAN 205	MAX 8000	MIN 0	AC-FT 148710							
WTR YR 1984	TOTAL 993.10	MEAN 2.71	MAX 205	MIN 0	AC-FT 1970							

MOJAVE RIVER BASIN

10262500 MOJAVE RIVER AT BARSTOW, CA

LOCATION.--Lat 34°54'25", long 117°01'19", in SE 1/4 SW 1/4 SW 1/4 sec.31, T.10 N., R.1 W., San Bernard Hydrologic Unit 18090208, on left bank 75 ft upstream from bridge on U.S. Highway 91 at Barstow, 54 mi downstream of Mojave Forks Reservoir, 60 mi downstream of Silverwood Lake on West Fork Mojave River, downstream of Lake Arrowhead on Deep Creek (East Fork Mojave River).

DRAINAGE AREA.--1,291 mi².

PERIOD OF RECORD.--October 1930 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,089.34 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Regulation by Lake Arrowhead, capacity, 48,000 acre-ft used principally for recreation, Silverwood Lake, capacity, 78,000 acre-ft used for the storage and distribution of imported water and recreation, and Mojave Forks Reservoir, capacity, 89,700 acre-ft with ungated opening, capacity, 23,500 ft³/s. Diversions and pumping for irrigation of about 15,000 acres above station.

AVERAGE DISCHARGE.--54 years, 26.1 ft³/s, 18,910 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,300 ft³/s Mar. 3, 1938, gage height, 8.60 ft, on basis of slope-area measurement of peak flow; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 223 ft³/s Sept. 11, gage height, 1.55 ft; no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
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		8.3
12										0		13
13										0		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											.09	0
27										0		0
28										0		0
29										0		0
30										0		0
31										0		
TOTAL	0	0	0	0	0	0	0	0	0	0	.09	21.3
MEAN	0	0	0	0	0	0	0	0	0	0	.003	.71
MAX	0	0	0	0	0	0	0	0	0	0	.09	13
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	.20	42
CAL YR 1983	TOTAL	46880.14	MEAN	128.44	MAX	7520	MIN	0	AC-FT	92990		
WTR YR 1984	TOTAL	21.39	MEAN	.058	MAX	13	MIN	0	AC-FT	42		

MOJAVE RIVER BASIN

10263000 MOJAVE RIVER AT AFTON, CA

LOCATION.--Lat 35°02'14", long 116°23'00", in SW 1/4 NW 1/4 SE 1/4 sec.18, T.11 N., R.6 E., San Bernardino County, Hydrologic Unit 18090208, on downstream end of right pier of Union Pacific Railroad bridge, 0.3 mi west of Afton, and 63 mi east of Barstow.

DRAINAGE AREA.--2,121 mi².

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. Records for the water years 1979 and 1980 incomplete, discharge measurements only were published at that time.

GAGE.--Water-stage recorder. Datum of gage is 1,398.15 ft National Geodetic Vertical Datum of 1929. Dec. 21, 1929, to Sept. 30, 1932, at site 1.7 mi downstream at different datum; October 1952 to May 1978 at datum 2 ft higher.

REMARKS.--Records poor. Natural flow affected by ground-water withdrawals, diversions, municipal use, and storage in upstream reservoirs 100 mi upstream. For description of upstream reservoirs see Mojave River at Barstow (station 10262500).

AVERAGE DISCHARGE.--33 years (water years 1930-32, 1953-78, 1981-84), 7.06 ft³/s, 5,110 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,000 ft³/s Jan. 26, 1969, gage height, 10.40 ft, from rating curve extended above 3,200 ft³/s on basis of slope-area measurement of peak flow; no flow at times many years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft³/s and maximum (*), from rating curve extended above 3,200 ft³/s on basis of slope-conveyance study:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Aug. 10	0430	198	2.21	Aug. 25	1730	*4810	5.98
Aug. 15	1630	538	2.84	Sept. 11	1715	181	1.61

Minimum daily, 0.13 ft³/s May 28, 29, June 28, July 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.1	1.3	1.8	1.3	1.5	1.5	.84	.31	.32	.49	.65
2	1.1	1.1	1.1	1.8	1.3	1.5	1.3	.70	.20	.26	.55	1.1
3	1.1	1.1	1.3	1.8	1.5	1.5	1.1	.60	.16	.26	.60	1.1
4	1.3	1.1	1.1	1.8	1.5	1.1	1.1	.60	.20	.20	.49	.96
5	2.0	1.3	1.5	1.8	1.5	1.1	1.3	.60	.26	.22	.49	.75
6	1.3	1.3	1.4	1.8	1.5	1.1	1.3	.71	.26	.32	.40	.48
7	1.3	1.5	1.3	1.8	1.5	1.1	1.1	.60	.40	.32	.40	.56
8	1.1	1.5	1.3	1.8	1.4	1.1	1.1	.71	.40	.49	.40	.56
9	1.1	1.5	1.3	1.8	1.3	1.1	1.1	.60	.49	.40	.40	.56
10	1.1	2.0	1.1	1.8	1.1	1.3	1.3	.60	.40	.26	21	.56
11	1.1	1.8	1.1	1.5	1.3	1.3	.98	.60	.49	.16	2.3	8.4
12	1.1	1.5	.98	1.8	1.3	1.5	1.1	.71	.32	.32	1.1	2.3
13	1.1	1.5	.98	1.8	1.5	1.5	.98	.53	.49	.32	.84	.75
14	1.3	1.1	.98	1.8	1.3	1.3	.98	.49	.50	.40	.84	.75
15	1.3	1.1	.98	1.8	1.3	1.3	.71	.60	.49	.32	29	.85
16	1.3	1.1	.98	1.8	1.3	1.5	.71	.60	.60	.32	3.0	.96
17	1.3	1.1	.98	1.5	1.3	1.5	.71	.60	.75	.40	2.5	.85
18	1.1	1.1	1.1	1.5	1.3	1.6	.71	.60	.49	2.7	1.8	.85
19	1.1	1.1	1.1	1.5	1.3	1.5	.71	.60	.40	1.4	1.4	.75
20	1.1	1.1	.98	1.5	1.5	1.5	.60	.60	.32	.60	1.2	.65
21	1.1	1.1	1.1	1.5	1.3	1.3	.60	.49	.40	.49	.60	.65
22	1.1	1.3	1.1	1.5	1.5	1.5	.60	.49	.40	.86	.49	.65
23	1.3	1.3	1.3	1.5	1.5	1.5	.60	.40	.40	.60	.49	.48
24	1.1	1.5	1.5	1.5	1.5	1.5	.60	.16	.71	.50	.32	.56
25	.98	2.3	2.3	1.5	1.5	1.3	.71	.20	.84	.20	419	.65
26	.98	1.8	1.8	1.3	1.5	1.3	.84	.20	.26	.13	59	.65
27	.98	1.5	1.5	1.3	1.5	1.1	.84	.20	.20	5.4	5.4	.65
28	1.1	1.3	1.3	1.5	1.5	1.3	.84	.13	.13	1.8	1.8	.65
29	1.1	1.3	1.5	1.5	1.5	1.5	.71	.13	.40	.98	.84	.48
30	.98	1.3	1.8	1.3	---	1.3	.84	.49	.40	.50	.70	.41
31	.98	---	1.8	1.3	---	1.5	---	.75	---	.49	.65	---
TOTAL	36.00	40.7	39.86	50.2	40.6	42.0	27.57	16.13	12.07	21.94	558.49	30.22
MEAN	1.16	1.36	1.29	1.62	1.40	1.35	.92	.52	.40	.71	18.0	1.01
MAX	2.0	2.3	2.3	1.8	1.5	1.6	1.5	.84	.84	5.4	419	8.4
MIN	.98	1.1	.98	1.3	1.1	1.1	.60	.13	.13	.13	.32	.41
AC-FT	71	81	79	100	81	83	55	32	24	44	1110	60
CAL YR 1983	TOTAL 6706.88	MEAN 18.4	MAX 2200	MIN .12	AC-FT 13300							
WTR YR 1984	TOTAL 915.78	MEAN 2.50	MAX 419	MIN .13	AC-FT 1820							

10263500 BIG ROCK CREEK NEAR VALYERMO, CA

LOCATION.--Lat 34°25'15", long 117°50'19", in NW 1/4 SE 1/4 NE 1/4 sec.20, T.4 N., R.9 W., Los Angeles County, Hydrologic Unit 18090206, on left bank 0.1 mi upstream from Punchbowl Canyon, and 1.9 mi southeast of Valyermo.

DRAINAGE AREA.--22.9 mi².

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, 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 downstream (below Punchbowl Canyon) at different datum.

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

AVERAGE DISCHARGE.--61 years (water years 1924-84), 17.9 ft³/s, 12,970 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,300 ft³/s Mar. 2, 1938, gage height unknown, on basis of slope-area measurement of peak flow; minimum daily, 0.70 ft³/s Nov. 5, 1951.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 50 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	0645	328	3.50	Sept. 18	1500	63	2.53
Dec. 25	0515	*473	3.57				

Minimum daily, 2.6 ft³/s Aug. 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	13	13	19	12	11	10	8.4	5.8	3.7	4.1	3.1
2	29	13	13	18	12	11	10	8.2	5.5	3.7	3.8	3.2
3	23	12	16	17	12	11	10	8.1	5.2	3.7	3.4	3.3
4	21	12	19	16	12	11	10	8.2	5.2	3.7	3.2	3.2
5	20	12	17	16	12	11	11	7.8	5.3	3.7	3.2	2.9
6	19	12	16	15	12	11	11	7.5	5.4	3.7	3.2	2.8
7	21	12	14	15	12	11	10	7.4	5.4	4.2	2.8	2.8
8	20	12	14	15	12	11	11	7.2	5.2	4.0	2.9	2.8
9	19	12	14	14	12	11	11	7.0	5.0	4.2	2.6	2.8
10	18	12	14	14	12	11	10	6.9	4.9	3.9	2.6	2.8
11	17	12	14	14	12	11	10	6.8	5.1	3.9	2.9	3.0
12	17	12	14	14	12	11	10	6.7	5.2	3.7	3.0	3.0
13	16	12	13	13	12	11	10	6.6	4.9	3.6	2.9	2.9
14	16	12	13	13	12	11	9.8	6.5	4.8	3.9	2.9	2.9
15	16	13	13	13	12	11	9.7	6.6	4.8	5.1	3.3	2.8
16	16	12	13	13	12	11	9.7	6.4	4.6	9.0	3.1	3.1
17	15	12	13	13	12	11	9.5	6.4	4.4	6.7	3.1	3.4
18	15	12	13	13	12	11	9.5	6.3	4.4	6.1	3.1	8.8
19	15	12	13	13	11	11	9.5	6.0	4.3	5.7	3.3	4.2
20	14	12	13	13	11	11	9.2	6.0	4.3	5.1	3.2	3.8
21	14	12	13	13	11	11	9.2	6.0	4.2	4.4	3.3	3.6
22	13	12	12	13	11	11	9.1	6.0	4.1	3.8	3.3	3.5
23	13	12	12	13	11	11	8.9	6.0	4.0	4.0	3.2	3.5
24	13	12	13	12	11	10	8.8	6.0	4.0	4.1	3.1	3.4
25	13	19	210	12	11	10	8.8	6.0	3.9	4.1	3.1	3.4
26	13	16	59	12	11	10	8.6	6.0	3.9	3.9	3.1	3.3
27	13	15	33	12	11	10	8.6	6.0	3.8	4.1	3.1	3.2
28	13	14	26	12	11	10	8.7	6.0	3.8	4.1	3.1	3.1
29	13	14	23	12	11	10	8.4	5.8	3.7	4.0	3.1	3.1
30	13	13	21	12	---	10	8.4	5.9	3.7	4.2	3.0	3.1
31	13	---	20	12	---	10	---	5.8	---	4.3	3.1	---
TOTAL	588	382	724	426	337	333	288.4	206.5	138.8	136.3	97.1	100.8
MEAN	19.0	12.7	23.4	13.7	11.6	10.7	9.61	6.66	4.63	4.40	3.13	3.36
MAX	97	19	210	19	12	11	11	8.4	5.8	9.0	4.1	8.8
MIN	13	12	12	12	11	10	8.4	5.8	3.7	3.6	2.6	2.8
AC-FT	1170	758	1440	845	668	661	572	410	275	270	193	200

CAL YR 1983	TOTAL	21219.0	MEAN	58.1	MAX	1210	MIN	10	AC-FT	42090
WTR YR 1984	TOTAL	3757.9	MEAN	10.3	MAX	210	MIN	2.6	AC-FT	7450

ANTELOPE VALLEY

10264600 OAK CREEK NEAR MOJAVE, CA

LOCATION.--Lat 35°03'00", long 118°21'25", in NW 1/4 sec.15, T.11 N., R.14 W., Kern County, Hydrologic Unit 18090206, on upstream right wingwall of culvert, 100 ft downstream from unnamed tributary, 0.1 mi west of junction of Oak Creek and Willow Springs Roads, and 10.5 mi west of Mojave.

DRAINAGE AREA.--15.8 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 4,100 ft, from topographic map.

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

AVERAGE DISCHARGE.--27 years, 1.32 ft³/s, 956 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,740 ft³/s May 14, 1973, by slope-area measurement, peak caused by failure of small earthen dam 4 mi upstream during intense local thunderstorm; maximum gage height, 10.53 ft May 14, 1973, ponding at culvert 0.1 mi downstream; no flow for some months in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 10 ft³/s and maximum (*), from rating curve extended above 100 ft³/s, on basis of slope-area measurement of peak flow:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 11	1415	16	2.53	July 30	1715	*171	5.74
Dec. 25	0400	23	2.73	Aug. 22	1730	138	5.14
July 28	1745	75	3.90				

Minimum daily, 0.55 ft³/s July 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	3.4	4.4	6.3	3.6	3.7	2.7	2.5	1.0	.74	4.5	.74
2	5.1	3.4	4.3	6.3	3.6	3.6	2.6	2.5	1.0	.70	2.0	.74
3	4.8	3.4	4.7	6.0	3.5	3.6	2.8	2.5	1.0	.69	1.1	.74
4	4.6	3.3	4.3	5.7	3.5	3.8	2.7	2.4	1.1	.68	.99	.73
5	4.9	3.2	4.0	5.5	3.5	3.8	2.7	2.5	1.2	.63	.94	.73
6	4.6	3.2	3.9	5.3	3.5	3.9	2.7	2.4	1.1	.69	.90	.73
7	5.1	3.2	3.9	5.4	3.4	3.9	2.7	2.2	1.1	.68	.91	.73
8	4.8	3.3	3.8	5.3	3.7	3.6	2.5	2.3	1.1	.65	1.2	.73
9	4.7	3.2	3.9	5.1	3.5	3.2	2.4	2.3	1.1	.62	1.2	.73
10	4.7	3.2	3.9	4.9	3.7	3.4	2.5	2.3	1.2	.63	1.0	.72
11	4.6	3.7	3.9	4.9	3.4	3.5	2.4	2.5	1.2	.60	1.1	.72
12	4.4	3.7	3.8	4.7	3.6	3.5	2.4	2.4	1.2	.62	.98	.72
13	4.2	3.7	3.8	4.6	3.5	3.2	2.2	2.2	1.2	.61	.89	.72
14	4.1	3.5	3.7	4.3	3.8	3.8	2.2	2.0	1.2	.61	1.1	.72
15	4.1	3.5	3.6	4.2	3.5	3.4	2.1	2.1	1.2	.87	1.1	.72
16	4.0	3.6	3.7	4.4	3.8	3.2	2.1	1.9	1.2	1.1	1.0	.72
17	3.5	3.4	3.7	4.3	3.7	3.2	2.1	1.6	1.1	.84	1.1	.72
18	3.4	3.5	3.7	4.0	3.5	3.2	2.1	1.4	1.2	.76	1.1	.72
19	3.3	3.4	3.5	4.2	3.8	3.1	2.4	1.3	1.2	.76	1.1	.72
20	3.3	5.5	3.0	4.1	3.5	3.0	2.4	1.1	1.2	.67	1.1	.71
21	3.2	4.5	2.9	4.2	3.5	3.0	2.4	1.1	1.2	.64	.91	.71
22	3.2	3.9	3.0	3.4	3.5	3.0	2.3	1.1	1.2	.68	8.3	.71
23	3.1	4.0	3.2	2.3	3.4	3.0	2.4	1.1	1.2	.67	1.2	.70
24	3.1	4.9	4.0	2.8	3.4	3.1	2.4	1.1	1.3	.65	1.1	.70
25	3.0	5.7	13	3.5	3.5	3.1	2.6	1.1	1.3	.59	1.0	.71
26	3.0	4.6	8.2	2.4	3.5	3.1	2.5	1.0	1.2	.55	.90	.71
27	2.9	4.6	7.7	2.4	3.6	3.0	2.6	1.0	1.1	.56	.80	.71
28	3.5	4.5	7.0	3.3	3.7	3.0	2.6	1.0	1.0	4.3	.76	.71
29	3.3	4.6	6.8	3.7	3.7	3.0	2.5	1.0	.91	1.3	.75	.71
30	3.2	4.5	6.6	3.7	---	2.7	2.5	1.0	.80	6.7	.74	.71
31	3.2	---	6.5	3.7	---	2.6	---	1.0	---	7.1	.74	---
TOTAL	123.8	116.1	146.4	134.9	103.4	102.2	73.5	53.9	34.01	37.89	42.51	21.59
MEAN	3.99	3.87	4.72	4.35	3.57	3.30	2.45	1.74	1.13	1.22	1.37	.72
MAX	6.9	5.7	13	6.3	3.8	3.9	2.8	2.5	1.3	7.1	8.3	.74
MIN	2.9	3.2	2.9	2.3	3.4	2.6	2.1	1.0	.80	.55	.74	.70
AC-FT	246	230	290	268	205	203	146	107	67	75	84	43

CAL YR 1983 TOTAL 3564.01 MEAN 9.76 MAX 91 MIN .43 AC-FT 7070
WTR YR 1984 TOTAL 990.20 MEAN 2.71 MAX 13 MIN .55 AC-FT 1960

NOTE.--No gage-height record Aug. 31 to Sept. 30.

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 SW 1/4 NE 1/4 sec.26, T.10 S., R.34 E., Inyo County, Hydrologic Unit 18090102, about 100 ft west of center of dam, and 8.4 mi southeast of Big Pine.

DRAINAGE AREA.--1,964 mi².

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, from topographic map.

REMARKS.--Records fair. Flow regulated since 1941 by Lake Crowley, capacity, 183,500 acre-ft, and several small reservoirs, combined capacity, 41,400 acre-ft. Diversions from both main stream and tributaries. Water imported from Mono Basin since 1941 for diversion to Los Angeles Aqueduct which diverts 4 mi downstream.

COOPERATION.--Records were furnished by city of Los Angeles, Department of Water and Power.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,050 ft³/s Aug. 24, 1983; minimum daily, 5.0 ft³/s Sept. 15, 16, 25-30, 1976, Mar. 29, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 852 ft³/s Jan. 19; minimum daily, 26 ft³/s Mar. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	624	608	678	740	819	706	701	640	553	695	795	695
2	621	597	670	743	813	706	743	595	553	670	801	698
3	619	600	665	746	553	706	781	595	553	654	801	701
4	651	605	665	749	258	706	790	597	553	654	798	695
5	673	645	665	781	258	656	784	597	561	380	793	698
6	678	673	533	801	242	605	781	595	571	383	795	698
7	678	676	405	798	244	654	787	485	587	605	801	695
8	670	704	410	795	248	729	793	405	619	605	732	695
9	662	720	405	775	250	732	790	403	613	621	698	695
10	670	720	403	790	252	732	790	403	619	651	695	698
11	673	720	405	804	254	732	790	490	632	667	701	698
12	678	720	407	798	256	732	732	558	659	678	704	698
13	676	720	403	798	258	695	715	561	665	678	698	695
14	692	720	401	798	260	676	715	561	662	678	695	695
15	718	740	401	798	261	676	718	563	613	678	695	695
16	712	749	403	798	345	678	654	563	569	678	692	692
17	690	746	403	798	701	684	621	563	566	712	627	698
18	579	740	403	831	743	571	619	558	566	729	576	701
19	503	737	403	852	743	508	627	553	535	735	579	701
20	518	737	528	846	740	508	619	553	523	732	579	698
21	508	743	692	846	740	508	613	553	525	729	579	701
22	515	746	740	840	740	505	619	576	528	726	566	701
23	503	732	740	840	740	503	662	603	518	726	548	701
24	503	718	735	837	712	500	709	582	515	687	548	701
25	510	720	732	834	706	218	737	543	592	478	550	701
26	518	720	746	831	706	26	784	518	619	500	550	701
27	569	720	760	828	706	407	798	520	659	718	597	701
28	603	692	752	825	706	695	813	523	690	715	651	701
29	605	673	746	822	706	695	828	535	690	715	673	684
30	605	676	743	819	---	695	749	553	692	715	701	673
31	605	---	737	825	---	701	---	553	---	763	698	---
TOTAL	19029	21017	17779	24986	14960	18845	21862	16897	17800	20355	20916	20904
MEAN	614	701	574	806	516	608	729	545	593	657	675	697
MAX	718	749	760	852	819	732	828	640	692	763	801	701
MIN	503	597	401	740	242	26	613	403	515	380	548	673
AC-FT	37740	41690	35260	49560	29670	37380	43360	33520	35310	40370	41490	41460
CAL YR 1983	TOTAL	273157	MEAN	748	MAX	1050	MIN	401	AC-FT	541800		
WTR YR 1984	TOTAL	235350	MEAN	643	MAX	852	MIN	26	AC-FT	466800		

OWENS LAKE BASIN

10277400 OWENS RIVER BELOW TINEMAHA RESERVOIR, NEAR BIG PINE, CA--Continued

WATER-QUALITY RECORDS

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

CHEMICAL ANALYSES: Water years 1975 to current year.

BIOLOGICAL DATA: Water years 1975 to current year.

SPECIFIC CONDUCTANCE: Water years 1975-81.

WATER TEMPERATURES: Water years 1975-81.

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1975 to September 1981.

WATER TEMPERATURES: February 1975 to September 1981.

INSTRUMENTATION.--Specific-conductance recorder from May 1975 to September 1981. Temperature recorder from February 1975 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 442 micromhos Feb. 13, 1978; minimum recorded, 129 micromhos July 5, 1980.

WATER TEMPERATURES: Maximum recorded, 26.5°C July 20, 1978; minimum recorded, 0.0°C Dec. 7, 8, 1978.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, SATUR- CENT (PER- CENT)	COLI- FORM, FECAL, UM-HF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
DEC , 1983											
30...	1030	746	295	8.3	5.0	660	5.0	10.7	97	K3	170
MAR , 1984											
20...	1430	503	295	8.4	10.5	655	3.9	9.6	100	K2	K6
JUN											
14...	1030	681	244	8.5	17.5	655	2.8	8.1	99	K3	K1000
SEP											
28...	1100	704	265	8.0	16.0	660	9.1	8.9	104	K10	23

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
DEC , 1983											
30...	74	0	23	4.0	32	47	2	3.5	100	31	12
MAR , 1984											
20...	69	0	21	4.0	33	49	2	3.7	109	20	13
JUN											
14...	61	0	19	3.3	27	47	2	3.1	89	20	9.4
SEP											
28...	68	0	21	3.8	29	46	2	4.0	106	14	12

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
DEC , 1983											
30...	.6	24	193	190	.26	<.10	.02	.50	.05	.01	.04
MAR , 1984											
20...	.7	22	179	180	.24	<.10	.04	.30	.04	.04	.03
JUN											
14...	.6	20	153	160	.21	<.10	.01	1.0	.08	.04	.03
SEP											
28...	.6	21	170	170	.23	<.10	.02	.60	.06	.09	.03

See footnotes at end of table.

10277400 OWENS RIVER BELOW TINEMAHA RESERVOIR, NEAR BIG PINE, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
DEC , 1983										
30...	1030		20	17	19	<.5	<1	<1	<3	33
MAR , 1984										
20...	1430		20	27	18	.6	<1	<1	<3	17
JUN										
14...	1030		10	17	18	1	2	<1	<3	16
SEP										
28...	1100		20	28	21	<1	<1	<1	<3	24

DATE	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
DEC , 1983											
30...	3	85	5	.1	40	7	<1	<1	120	<6	8
MAR , 1984											
20...	2	110	2	<.1	20	<1	<1	<1	110	<6	35
JUN											
14...	6	65	5	<.1	40	3	<1	<1	110	<6	7
SEP											
28...	2	100	4	<.1	20	1	<1	<1	98	<6	15

K Results based on colony count outside the acceptable range (non-ideal colony count).
 < Actual value is know to be less than the value shown.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
DEC						
30...	1030	746	5.0	6	12	87
MAR						
20...	1430	503	10.5	11	15	78
JUN						
14...	1030	681	17.5	37	68	91
SEP						
28...	1100	704	16.0	16	30	90

MONO LAKE BASIN

10287000 MONO LAKE NEAR MONO LAKE, CA

LOCATION.--Lat 37°58'46", long 119°08'11", in NW 1/4 sec. 5, T.2 N., R.26 E., Mono County, Hydrologic Unit 18090101, on west bank 1 mi south of town of Mono Lake.

DRAINAGE AREA.--785 mi².

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 readings have been reduced to elevations to National Geodetic Vertical Datum of 1929. Gage heights prior to October 1944 are converted to elevations to NGVD in WSP 1314.

REMARKS.--Since 1941 water diverted to Owens Lake basin via Mono tunnel, capacity, 200 ft³/s.

COOPERATION.--Records furnished by City of Los Angeles, Department of Water and Power.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 6,428.1 ft July 18, 1919, present datum; minimum observed, 6,372.00 ft Dec. 17, 30, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Date	Elevation	Date	Elevation	Date	Elevation	Date	Elevation
Oct. 5	6,378.68	Jan. 4	6,379.95	Apr. 4	6,380.90	July 5	6,380.41
12	6,378.73	11	6,380.10	11	6,380.90	11	6,380.31
19	6,378.76	18	6,380.20	18	6,380.88	18	6,380.26
26	6,378.81	25	6,380.16	25	6,380.90	25	6,380.26
Nov. 2	6,378.86	Feb. 1	6,380.31	May 2	6,380.85	Aug. 1	6,380.28
9	6,378.85	8	6,380.41	9	6,380.80	7	6,380.28
16	6,378.87	15	6,380.55	16	6,380.78	15	6,380.26
23	6,379.02	22	6,380.65	23	6,380.76	23	6,380.35
29	6,379.17	29	6,380.70	30	6,380.71	29	6,380.28
Dec. 1	6,379.20	Mar. 7	6,380.75	June 6	6,380.67	Sept. 5	6,380.25
7	6,379.40	14	6,380.79	13	6,380.57	11	6,380.24
14	6,379.48	22	6,380.82	20	6,380.50	12	6,380.24
21	6,379.55	28	6,380.85	27	6,380.45	19	6,380.20
28	6,379.82					26	6,380.15

11012000 COTTONWOOD CREEK ABOVE TECATE CREEK, NEAR DULZURA, CA

LOCATION.--Lat 32°34'30", long 116°45'11", in NW 1/4 NW 1/4 SW 1/4 sec.26, T.18 S., R.2 E., San Diego County, Hydrologic Unit 18070305, on right bank 0.8 mi upstream from confluence with Tecate Creek, and 5.1 mi south of Dulzura.

DRAINAGE AREA.--310 mi².

PERIOD OF RECORD.--October 1936 to current year.

GAGE.--Water-stage recorder. Datum of gage is 569.40 ft National Geodetic Vertical Datum of 1929 (levels by International Boundary and Water Commission).

REMARKS.--Records fair. Flow regulated by Morena Reservoir, capacity, 50,120 acre-ft and Barrett Reservoir, capacity, 44,760 acre-ft. Water diverted from Barrett Reservoir through San Diego and Dulzura conduits to Lower Otay Reservoir.

AVERAGE DISCHARGE.--48 years, 15.6 ft³/s, 11,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,700 ft³/s Feb. 21, 1980, gage height, 11.15 ft; no flow for part of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 149 ft³/s Dec. 26, gage height, 4.47 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	.33	14	42	16	5.2	1.8	.44	0			
2	1.3	.55	30	44	12	4.4	1.7	.42	0			
3	1.1	2.6	32	45	9.1	3.8	1.7	.41	0			
4	1.0	3.7	42	45	8.2	3.0	1.6	.35	0			
5	.95	4.9	43	38	7.2	2.6	1.5	.31	.03			
6	.69	6.2	39	26	6.5	2.5	1.7	.27	.06			
7	.66	8.8	36	22	5.4	2.7	1.6	.19	.03			
8	.46	12	32	19	4.8	4.8	1.4	.12	.01			
9	.42	16	31	14	4.6	5.1	1.3	.06	0			
10	.35	14	32	13	4.8	4.8	1.2	.04	0			
11	.28	13	26	12	4.5	4.1	1.1	.05	0			
12	.18	14	24	13	4.1	3.6	.94	.05	0			
13	.21	24	25	20	3.9	3.4	.83	.04	0			
14	.24	27	20	14	3.9	3.2	.63	.03	0			
15	.29	28	22	8.4	3.7	3.0	.52	.05	0			
16	.30	25	25	7.6	3.9	3.0	.45	.06	0			
17	.35	22	21	7.3	4.0	2.9	.47	.05	0			
18	.33	16	17	7.7	4.2	2.6	.51	.03	0			
19	.29	15	17	7.9	4.2	2.6	.74	.02	0			
20	.28	16	21	14	4.1	2.7	.70	.02	0			
21	.26	38	22	25	4.1	2.6	.60	.03	0			
22	.21	55	20	25	4.1	2.4	.46	.03	0			
23	.18	41	21	25	3.9	2.3	.33	.02	0			
24	.19	28	22	26	3.9	2.2	.33	.02	0			
25	.16	30	36	24	3.8	2.1	.37	.01	0			
26	.10	32	95	24	3.2	2.2	.41	0	0			
27	.13	24	139	36	2.9	2.2	.46	0	0			
28	.15	19	135	57	3.1	1.9	.45	0	0			
29	.22	15	96	37	5.5	1.8	.44	0	0			
30	.25	12	68	27	---	1.8	.44	0	0			
31	.29	---	52	22	---	1.8	---	0	---			
TOTAL	13.32	563.08	1257	747.9	153.6	93.3	26.68	3.12	0.13	0	0	0
MEAN	.43	18.8	40.5	24.1	5.30	3.01	.89	.10	.004	0	0	0
MAX	1.5	55	139	57	16	5.2	1.8	.44	.06	0	0	0
MIN	.10	.33	14	7.3	2.9	1.8	.33	0	0	0	0	0
AC-FT	26	1120	2490	1480	305	185	53	6.2	.3	0	0	0
CAL YR 1983	TOTAL	90110.69	MEAN	247	MAX	5530	MIN	.08	AC-FT	178700		
WTR YR 1984	TOTAL	2858.13	MEAN	7.81	MAX	139	MIN	0	AC-FT	5670		

TIJUANA RIVER BASIN

11012500 CAMPO CREEK NEAR CAMPO, CA

LOCATION.--Lat 32°35'28", long 116°31'29", in SW 1/4 NE 1/4 SE 1/4 sec.24, T.1E S., R.4 E., San Diego County, Hydrologic Unit 18070305, on left bank just upstream from bridge on State Highway 94, and 3.5 mi southwest of Campo.

DRAINAGE AREA.--85.0 mi², of which 3 mi² 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 National Geodetic Vertical Datum of 1929. Prior to Dec. 1, 1954, at datum 1 ft higher.

REMARKS.--Records fair. Broad-crested weir buried by sand Mar. 25, 1982 to Sept. 30, 1984 and was ineffective as a control. Flow regulated by small conservation reservoir 1 mi upstream since August 1956. No diversion above station.

AVERAGE DISCHARGE.--48 years, 3.27 ft³/s, 2,370 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 695 ft³/s Mar. 24, 1983, gage height, 5.39 ft, from rating curve extended above 340 ft³/s; maximum gage height, 7.04 ft, Dec. 25, 1983, (sand fill); no flow for part of most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 76.0 ft³/s Aug. 20, gage height, 5.70 ft; maximum gage height, 7.04 ft Dec. 25, (sand fill); minimum daily, 1.10 ft³/s July 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEI
1	17	14	29	15	15	16	15	9.9	4.1	1.4	5.0	4.0
2	15	14	27	17	15	13	14	10	4.5	1.4	4.7	3.7
3	15	12	28	15	15	15	15	9.5	4.6	1.4	4.7	3.6
4	18	11	29	19	14	14	13	9.8	4.0	1.4	4.6	3.2
5	18	12	24	19	15	13	14	9.8	4.7	1.2	3.9	3.1
6	14	14	22	21	15	15	13	10	5.5	1.1	3.5	3.1
7	20	14	24	20	14	15	13	9.5	5.1	1.2	3.0	3.1
8	23	14	21	19	14	14	12	7.7	4.0	3.0	2.0	3.1
9	19	15	20	19	12	14	13	6.7	3.7	2.9	2.4	3.2
10	15	15	23	19	14	14	12	5.8	5.3	2.8	3.1	3.4
11	14	16	22	19	15	13	12	4.9	2.8	2.7	3.1	3.5
12	14	18	21	18	15	14	10	4.8	2.5	2.5	3.0	3.3
13	15	19	22	18	14	14	8.7	4.5	2.0	2.0	2.7	3.1
14	13	21	24	18	14	14	10	3.9	2.8	2.0	3.7	2.5
15	12	21	23	18	13	15	11	3.7	2.7	2.0	3.4	2.7
16	13	21	26	19	14	15	10	4.4	2.0	2.7	3.3	2.7
17	15	21	27	20	15	16	11	5.1	2.3	2.8	3.5	2.8
18	15	21	27	18	15	13	10	5.1	2.2	2.8	3.4	2.9
19	13	22	26	17	15	13	12	4.0	2.1	3.0	5.0	3.1
20	14	25	27	17	13	14	11	4.7	2.1	3.0	21	3.7
21	13	32	27	18	15	14	11	4.8	2.1	3.1	3.7	3.6
22	11	30	26	17	15	14	9.3	4.4	1.8	3.1	3.8	3.2
23	12	28	20	16	15	14	9.2	4.0	1.5	3.1	4.0	3.1
24	11	29	26	17	12	14	9.1	3.9	1.3	3.1	3.8	3.3
25	11	31	44	17	16	14	9.1	3.8	1.3	3.1	4.4	3.4
26	12	28	34	17	16	16	9.4	3.4	1.5	3.1	3.8	3.4
27	13	26	30	15	15	16	8.8	3.2	1.3	3.1	4.5	4.2
28	12	27	28	15	14	14	9.3	3.0	1.4	3.1	4.3	3.6
29	12	26	25	14	16	14	11	3.4	1.0	4.0	5.0	3.6
30	12	25	21	14	---	16	9.0	3.9	1.5	6.2	4.5	3.2
31	12	---	19	15	---	15	---	4.1	---	0.4	4.2	---
TOTAL	443	622	798	548	420	445	335.5	170.4	14.7	60.5	139.6	99.6
MEAN	14.3	20.7	25.7	17.7	14.5	14.4	11.2	5.69	2.82	2.75	4.50	3.30
MAX	23	32	44	21	16	16	15	10	5.5	6.4	21	4.2
MIN	11	11	15	14	12	13	8.7	3.0	1.3	1.1	2.4	2.7
AC-FT	279	1230	1580	1090	633	683	605	350	168	172	277	196
CAL YR 1983	TOTAL	15792.3	MEAN	43.3	MAX	454	MIN	0.0	AC-FT	31320		
WTR YR 1984	TOTAL	4197.7	MEAN	11.5	MAX	44	MIN	1.1	AC-FT	5330		

TIJUANA RIVER BASIN

81

11013000 TIJUANA RIVER NEAR DULZURA, CA

LOCATION.--Lat 32°33'56", long 116°46'27", in E 1/2 sec.33, T.18 S., R.2 E., San Diego County, Hydrologic Unit 18070305, on left bank 0.5 mi downstream from confluence of Cottonwood and Tecate Creeks, and 5.5 mi south of Dulzura.

DRAINAGE AREA.--481 mi², of which 70 mi² are in Mexico.

PERIOD OF RECORD.--October 1936 to current year.

GAGE.--Water-stage recorder. Datum of gage is 542.42 ft National Geodetic Vertical Datum of 1929 (levels by International Boundary and Water Commission). Prior to Sept. 19, 1939, at datum 2.00 ft higher.

REMARKS.--Records fair. Flow regulated by Morena Reservoir, capacity, 50,210 acre-ft and Barrett Reservoir, capacity, 44,760 acre-ft. Water diverted from Barrett Reservoir through San Diego and Dulzura conduits to Lower Otay Reservoir.

AVERAGE DISCHARGE.--48 years, 26.1 ft³/s, 18,910 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,600 ft³/s, Mar. 3, 1983, gage height, 7.03 ft, from rating curve extended above 3,500 ft³/s; maximum gage height, 11.19 ft, Feb. 18, 1980; no flow for part of most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 505 ft³/s Dec. 25, gage height, 3.58 ft; minimum daily, 0.03 ft³/s July 12,13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	31	82	76	35	29	20	10	.35	.10	3.1	.72
2	23	30	119	80	35	25	20	9.0	.35	.09	2.4	.61
3	23	36	106	82	34	27	19	8.0	.35	.09	1.4	.56
4	19	33	130	83	34	25	20	8.0	.35	.08	2.0	.50
5	20	36	109	72	32	22	19	7.0	.35	.08	1.3	.36
6	20	34	85	56	31	23	22	7.0	.35	.08	.90	.26
7	37	36	73	50	31	23	21	6.0	.35	.06	.50	.22
8	40	35	65	45	29	24	20	6.0	.30	.06	.42	.19
9	29	32	64	46	29	24	20	5.0	.30	.05	.38	.15
10	26	31	65	42	30	24	21	4.0	.30	.05	.36	.16
11	24	34	64	42	32	26	17	4.0	.30	.04	.28	.15
12	22	45	64	46	31	24	19	3.0	.30	.03	.24	.15
13	21	58	63	56	30	24	14	3.0	.25	.03	.18	.12
14	24	62	63	51	31	25	15	2.5	.25	.23	.16	.17
15	24	61	62	49	31	26	12	2.5	.25	.45	.14	.19
16	26	58	61	50	30	25	13	2.5	.25	9.3	.11	.24
17	28	52	60	50	31	23	16	2.0	.25	.87	19	.20
18	28	52	59	47	32	23	12	2.0	.25	.42	17	.20
19	27	49	61	48	31	22	15	1.5	.20	.35	2.6	.20
20	26	68	60	48	30	19	17	1.5	.20	.35	44	.22
21	26	139	61	54	30	21	14	1.3	.20	.30	24	.26
22	27	125	58	55	31	19	12	1.1	.20	.25	6.6	.33
23	30	98	58	52	31	19	10	1.0	.20	.20	3.3	.38
24	29	78	62	51	32	18	10	.90	.20	.20	2.3	.39
25	30	109	179	46	34	19	8.3	.80	.20	.16	1.9	.36
26	23	96	202	38	27	23	6.3	.80	.20	.12	1.6	.28
27	21	80	246	50	27	23	7.8	.70	.15	32	1.4	.24
28	28	72	226	61	27	20	13	.60	.15	30	1.0	.18
29	30	65	148	38	27	19	11	.50	.10	13	.95	.12
30	30	64	103	37	---	19	11	.40	.10	7.0	.76	.11
31	31	---	86	36	---	20	---	.40	---	3.2	.76	---
TOTAL	820	1799	2944	1637	895	703	455.4	103.00	7.55	99.24	141.04	8.23
MEAN	26.5	60.0	95.0	52.8	30.9	22.7	15.2	3.32	.25	3.20	4.55	.27
MAX	40	139	246	83	35	29	22	10	.35	32	44	.72
MIN	19	30	58	36	27	18	6.3	.40	.10	.03	.11	.11
AC-FT	1630	3570	5840	3250	1780	1390	903	204	15	197	280	16
CAL YR 1983	TOTAL	131806	MEAN	361	MAX	7830	MIN	14	AC-FT	261400		
WTR YR 1984	TOTAL	9612.46	MEAN	26.3	MAX	246	MIN	.03	AC-FT	19070		

TIJUANA RIVER BASIN

11013200 RODRIGUEZ RESERVOIR AT RODRIGUEZ DAM, BAJA CALIFORNIA, MEXICO

LOCATION.--Lat 32°26'40", long 116°54'25", Baja California, Mexico, Hydrologic Unit 18070305, at Rodriguez Dam on Rio de las Palmas, 0.2 mi upstream from Arroyo Matanuco, and 10 mi southeast of Tijuana.

DRAINAGE AREA.--977 mi², of which 10 mi² 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 National Geodetic Vertical Datum of 1929 (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, 111,070 acre-ft; at spillway lip, elevation, 380.08 ft, 74,580 acre-ft; dead storage below outlet, elevation, 267.39 ft, 1,650 acre-ft included in contents. Reservoir stores water for irrigation of 3,000 acres on both banks 0.5 to 5.5 mi 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 none was imported.

COOPERATION.--Records were 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, February and March 1944, January to July 1980, April 1983; reservoir dry Apr. 2, 1964 to Apr. 9, 1965, Aug. 21 to Nov. 22, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 80,320 acre-ft Jan. 25-30; minimum observed, 64,940 acre-ft Sept. 30.

MONTHEND CONTENTS, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Date	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	73,560	--
Oct. 31.....	78,900	+5,340
Nov. 30.....	75,330	-3,570
Dec. 31.....	79,270	+3,940
CAL YR 1983.....	--	+11,720
Jan. 31.....	80,280	+1,010
Feb. 29.....	79,500	-780
Mar. 31.....	77,560	-1,940
Apr. 30.....	75,660	-1,900
May 31.....	73,660	-2,000
June 30.....	71,540	-2,120
July 31.....	69,340	-2,200
Aug. 31.....	67,090	-2,250
Sept. 30.....	64,940	-2,150
WTR YR 1984.....	--	-8,620

11013600 JAMUL CREEK AT LEE VALLEY, NEAR JAMUL, CA

LOCATION.--Lat 32°42'39", long 116°48'52", in SE 1/4 NW 1/4 sec.7, T.17 S., R.2 E., San Diego County, Hydrologic Unit 18070304, on right bank 0.1 mi downstream from unnamed tributary, and 3.5 mi southeast of Jamul.

DRAINAGE AREA.--2.26 mi².

PERIOD OF RECORD.--October 1983 to September 1984.

GAGE.--Water-stage recorder. Altitude of gage is 1,560 ft, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 182 ft³/s July 14, 1984, gage-height, 2.72 ft, on basis of rating extended above 1.0 ft³/s based on slope area measurement at gage height, 4.12 ft; no flow many days during 1984 water year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 182 ft³/s July 14, gage height, 2.72 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	0	.16	.21	.09	.07	.05	.02		0		
2	.01	0	.09	.20	.10	.07	.05	.03		0		
3	0	0	.17	.19	.09	.07	.05	.02		0		
4	0	0	.12	.19	.10	.07	.05	.02		0		
5	0	0	.10	.18	.10	.06	.05	.02		0		
6	0	0	.10	.18	.09	.07	.06	.02		0		
7	.01	.01	.09	.17	.09	.06	.06	.02		0		
8	.01	.01	.09	.17	.09	.06	.06	.01		0		
9	.01	0	.08	.16	.09	.06	.06	.01		0		
10	.01	0	.08	.16	.09	.06	.06	0		0		
11	0	.01	.08	.15	.09	.06	.06	0		0		
12	0	.02	.08	.15	.09	.06	.06	0		0		
13	0	.02	.08	.14	.09	.05	.05	0		0		
14	0	.02	.09	.14	.10	.05	.04	0		7.6		
15	0	.02	.09	.13	.11	.06	.04	0		0		
16	0	.02	.09	.13	.10	.06	.04	0		0		
17	.01	.02	.08	.12	.10	.06	.04	0		0		
18	.01	.02	.09	.12	.10	.06	.04	0		0		
19	.01	.02	.09	.11	.09	.06	.05	0		0		
20	.01	.03	.09	.11	.08	.06	.05	0		0		
21	.01	.02	.09	.11	.08	.06	.03	0		0		
22	0	.02	.10	.11	.08	.06	.03	0		0		
23	0	.02	.11	.11	.08	.06	.03	0		0		
24	0	.02	.13	.10	.08	.05	.03	0		0		
25	0	.32	.42	.10	.08	.05	.04	0		0		
26	0	.08	.43	.11	.07	.05	.03	0		0		
27	0	.08	.65	.10	.07	.05	.04	0		0		
28	0	.08	.40	.10	.07	.05	.04	0		0		
29	0	.08	.30	.10	.07	.05	.03	0		0		
30	0	.06	.25	.10	---	.05	.03	0		0		
31	0	---	.23	.09	---	.05	---	0		0		
TOTAL	0.11	1.02	5.06	4.24	2.56	1.81	1.35	0.17	0	7.6	0	0
MEAN	.004	.034	.16	.14	.088	.058	.045	.005	0	.25	0	0
MAX	.01	.32	.65	.21	.11	.07	.06	.03	0	7.6	0	0
MIN	0	0	.08	.09	.07	.05	.03	0	0	0	0	0
AC-FT	.2	2.0	10	8.4	5.1	3.6	2.7	.3	0	15	0	0
WTR YR 1984	TOTAL	23.92	MEAN	.065	MAX	7.6	MIN	0	AC-FT	47		

OTAY RIVER BASIN

11014550 LOWER OTAY LAKE NEAR CHULA VISTA, CA

LOCATION.--Lat 32°36'33", long 116°55'45", in NE 1/4 NE 1/4 sec.13, T.18 S., R.1 E., San Diego County, Hydrologic Unit 18070304, on outlet tower near right bank, 1,000 ft west of right end of Savage Dam on Otay River, and 9 mi east of Chula Vista.

DRAINAGE AREA.--99.0 mi².

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.--Nonrecording gage. Datum of gage is 347.20 ft National Geodetic Vertical Datum of 1929 (levels by County of San Diego); gage readings have been reduced to NGVD. October 1972 to current year, supplementary water-stage recorder for flood warning only, on right bank 30 ft upstream from dam at datum 50.0 ft higher.

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, elevation, 490.70 ft. Capacity at permanent spillway level, 49,510 acre-ft, elevation, 484.70 ft. Dead storage below lowest outlet, 1,150 acre-ft, elevation, 395.05 ft. Dulzura conduit carries water from Barrett Reservoir on Cottonwood Creek to Dulzura Creek, where water is carried to the reservoir by Jamul Creek (station 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 city of San Diego, Utilities Engineering Division.

EXTREMES FOR PERIOD OF RECORD (1945-59 AND SINCE 1972).--Maximum contents observed, 51,860 acre-ft, spilling, Mar. 3, 1983, elevation, 486.78 ft; minimum observed, 3,160 acre-ft Dec. 31, 1951, elevation, 407.56 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 46,900 acre-ft, spilling, Oct. 10, elevation, 482.30 ft; minimum observed, 44,730 acre-ft Sept. 4, elevation, 480.22 ft.

MONTHEND ELEVATION NGVD AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	482.27	46,870	--
Oct. 31.....	481.94	46,520	-350
Nov. 30.....	481.14	45,680	-840
Dec. 31.....	481.66	46,220	+540
CAL YR 1983.....	--	--	+1,140
Jan. 31.....	481.72	46,290	+70
Feb. 29.....	482.00	46,580	+290
Mar. 31.....	481.99	46,570	-10
Apr. 30.....	482.13	46,770	+200
May 31.....	481.80	46,370	-400
June 30.....	480.70	45,220	-1,150
July 31.....	480.44	44,950	-270
Aug. 31.....	480.28	44,790	-160
Sept. 30.....	480.68	45,200	+410
WTR YR 1984.....	--	--	-1,170

11015000 SWEETWATER RIVER NEAR DESCANSO, CA

LOCATION.--Lat 32°50'05", long 116°37'20", in NW 1/4 SE 1/4 sec.25, T.15 S., R.3 E., San Diego County, Hydrologic Unit 18070304, near right bank at Los Terrenitos Road bridge, 0.7 mi downstream from unnamed tributary, and 1.3 mi south of Descanso.

DRAINAGE AREA.--45.4 mi².

PERIOD OF RECORD.--October 1905 to September 1927, river flow only, October 1956 to November 1976, combined flow river and upstream diversion. December 1976 to current year, river flow only, diversion terminated.

GAGE.--Water-stage recorder on river; water-stage recorder on concrete diversion. Datum of river gage is 3,269.24 ft National Geodetic Vertical Datum of 1929. Prior to June 25, 1927, nonrecording gages at several sites within 0.1 mi upstream at various datums. Diversion gage at different datum.

REMARKS.--Records fair. No regulation or diversion above station. Sweetwater River diversion diverted about 54 acre-ft annually.

AVERAGE DISCHARGE.--50 years, (water years 1906-27, 1957-84), 12.2 ft³/s, 8,840 acre-ft/yr.

PERIOD OF RECORD.--Maximum discharge, 11,200 ft³/s Feb. 16, 1927, gage height, 13.2 ft, from floodmarks, site and datum then in use, on basis of slope-area measurement of maximum flow; no flow many days in most years.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
July 27	1915	160	5.93
Aug. 17	1245	*380	6.68

Minimum daily discharge, 0.07 July 4,5,10-12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	5.0	8.5	6.6	8.6	4.2	5.7	3.3	.10	.08	2.4	.47
2	5.8	5.4	8.0	5.7	8.3	4.3	6.8	3.3	.12	.08	1.9	.45
3	4.6	5.0	12	5.5	8.2	4.4	5.6	3.0	.10	.08	1.4	.28
4	3.8	3.9	20	5.4	7.5	4.2	4.8	2.8	.10	.07	1.2	.29
5	3.8	3.9	16	6.8	7.0	4.0	4.5	2.8	.11	.07	1.2	.29
6	3.3	4.1	12	9.4	6.8	4.0	5.4	2.8	.11	.08	.72	.17
7	4.5	3.3	9.5	8.2	6.3	4.1	6.3	2.7	.11	.08	.51	.16
8	5.2	2.8	8.5	5.7	6.2	4.3	5.7	2.4	.11	.08	.40	.22
9	5.0	3.0	9.5	5.9	5.7	4.3	5.2	2.4	.11	.08	.34	.23
10	4.0	2.8	9.2	6.3	6.4	4.3	4.7	2.4	.10	.07	.71	.20
11	3.1	3.1	8.8	6.6	6.5	4.6	4.5	2.3	.10	.07	.68	.42
12	2.7	14	8.4	5.5	6.5	4.3	4.3	2.3	.10	.07	.45	.37
13	2.8	15	7.8	6.1	6.1	3.7	3.9	2.2	.10	.08	.34	.23
14	3.2	9.6	7.8	6.9	6.5	4.1	3.6	2.0	.10	.22	.74	.13
15	3.5	6.5	7.8	6.1	6.0	4.5	3.6	2.1	.10	.11	1.4	.12
16	3.3	4.4	7.7	6.9	6.6	4.6	3.3	2.2	.10	.11	1.1	.15
17	3.4	3.8	7.7	8.9	7.4	4.4	3.3	2.2	.09	1.0	30	.15
18	3.7	6.1	7.6	7.9	7.7	4.2	3.3	1.8	.09	.24	4.6	.15
19	3.1	4.8	7.4	8.0	6.8	3.8	4.1	1.7	.09	.23	3.4	.16
20	2.5	15	7.1	8.0	5.7	3.6	3.9	1.7	.09	.42	4.2	.17
21	2.3	25	6.5	8.0	4.8	3.3	3.5	1.6	.09	.42	2.6	.24
22	2.3	13	6.3	7.8	5.0	3.2	3.2	1.6	.09	.67	2.3	.23
23	2.2	6.5	6.1	8.0	4.3	2.8	3.1	1.4	.09	1.0	1.8	.23
24	2.0	5.8	7.5	8.3	4.2	2.5	2.9	1.4	.08	1.1	1.5	.21
25	1.9	26	47	8.2	4.5	2.4	3.0	1.3	.08	1.1	1.2	.16
26	2.9	14	51	8.3	4.5	2.4	3.2	1.0	.08	2.2	1.1	.12
27	2.5	8.5	45	8.3	4.5	2.8	3.4	.93	.08	26	.94	.16
28	2.9	7.5	32	8.6	4.7	2.7	3.5	.74	.08	9.3	.85	.17
29	3.7	7.0	19	8.7	4.8	2.6	3.5	.67	.08	5.1	1.2	.15
30	4.4	6.5	12	8.7	---	2.5	3.3	.26	.08	5.5	.68	.14
31	4.7	---	8.1	8.3	---	2.6	---	.11	---	3.3	.60	---
TOTAL	109.4	241.3	431.8	227.6	178.1	113.7	125.1	59.41	2.86	59.01	72.46	6.62
MEAN	3.53	8.04	13.9	7.34	6.14	3.67	4.17	1.92	.095	1.90	2.34	.22
MAX	6.3	26	51	9.4	8.6	4.6	6.8	3.3	.12	26	30	.47
MIN	1.9	2.8	6.1	5.4	4.2	2.4	2.9	.11	.08	.07	.34	.12
AC-FT	217	479	856	451	353	226	248	118	5.7	117	144	13
CAL YR 1983	TOTAL	24995.0	MEAN	68.5	MAX	1470	MIN	1.9	AC-FT	49580		
WTR YR 1984	TOTAL	1627.36	MEAN	4.45	MAX	51	MIN	.07	AC-FT	3230		

SAN DIEGO RIVER BASIN

11020600 EL CAPITAN LAKE NEAR LAKESIDE, CA

LOCATION.--Lat 32°53'00", long 116°48'25", in NE 1/4 SE 1/4 NE 1/4 sec.7, T.15 S., R.2 E., San Diego County, Hydrologic Unit 18070304, on outlet tower 100 ft upstream of El Capitan Dam on San Diego River, and 7 mi east of Lakeside.

DRAINAGE AREA.--188 mi².

PERIOD OF RECORD.--October 1936 to September 1966 (published with San Diego River at El Capitan Dam, station 11020500), October 1972 to current year. October 1936 to September 1945, published in WSP 1315-B, not equivalent owing to exclusion of greater part of flow released from Cuyamaca Reservoir.

GAGE.--Nonrecording gage. Datum of gage is 553.0 ft National Geodetic Vertical Datum of 1929 (levels by city of San Diego); gage readings have been reduced to NGVD. October 1972 to current year, supplementary water-stage recorder used for flood warning only, on left side of outlet tower at datum 110.0 ft higher.

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, elevation, 750.00 ft. Dead storage below lowest outlet, 59.2 acre-ft, elevation, 574.00 ft. 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.--Gage heights were furnished by city of San Diego, Utilities Engineering Division.

EXTREMES FOR PERIOD OF RECORD (1945-66 AND SINCE 1972).--Maximum contents observed, 114,500 acre-ft, spilling, Mar. 7, 1980, elevation, 751.09 ft; minimum observed, 2,252 acre-ft May 1, 1957, elevation, 606.28 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 98,660 acre-ft, Oct. 1, elevation, 740.60 ft; minimum observed, 45,490 acre-ft Sept. 30, elevation, 694.26 ft.

MONTHEND ELEVATION NGVD AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	740.72	98,830	--
Oct. 31.....	738.58	95,760	-3,070
Nov. 30.....	736.76	93,200	-2,560
Dec. 31.....	733.70	89,010	-4,190
CAL YR 1983.....	--	--	+47,940
Jan. 31.....	725.87	78,880	-10,130
Feb. 29.....	721.95	74,100	-4,780
Mar. 31.....	719.45	71,150	-2,950
Apr. 30.....	716.32	67,560	-3,590
May 31.....	712.22	63,040	-4,520
June 30.....	707.81	58,400	-4,640
July 31.....	703.59	54,180	-4,220
Aug. 31.....	698.94	49,740	-4,440
Sept. 30.....	694.26	45,490	-4,250
WTR YR 1984.....	--	--	-53,340

11022100 SAN VICENTE RESERVOIR NEAR LAKESIDE, CA

LOCATION.--Lat 32°54'45", long 116°55'25", in SE 1/4 SW 1/4 NW 1/4 sec.31, T.14 S., R.1 E., San Diego County, Hydrologic Unit 18070304, at outlet tower near center of upstream face of San Vicente Dam on San Vicente Creek, and 3.6 mi north of Lakeside.

DRAINAGE AREA.--74.2 mi².

PERIOD OF RECORD.--October 1946 to September 1961 (published as San Vicente Creek at San Vicente Dam, at Foster, station 11022000), October 1972 to current year.

GAGE.--Nonrecording gage. Datum of gage is 460.0 ft National Geodetic Vertical Datum of 1929 (levels by county of San Diego); gage readings have been reduced to elevations NGVD. October 1972 to current year, supplementary water-stage recorder used for flood warning only, at same site at datum 100 ft higher.

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, elevation, 650 ft. Dead storage below lowest outlet, 350 acre-ft, elevation, 493.0 ft. 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 city of San Diego, Utilities Engineering Division.

EXTREMES FOR PERIOD OF RECORD (1946-61 AND SINCE 1972).--Maximum contents observed, 94,200 acre-ft, spilling Feb. 21, 1980, elevation, 653.54 ft; minimum observed, 12,390 acre-ft Nov. 1, 1947, elevation, 549.22 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 72,020 acre-ft, Oct. 1, elevation, 632.19 ft; minimum observed, 54,740 acre-ft Sept. 30, elevation, 613.36 ft.

MONTHEND ELEVATION NGVD AND CONTENTS, AT 0600, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	632.21	72,050	--
Oct. 31.....	631.16	71,030	-1,020
Nov. 30.....	628.68	68,660	-2,370
Dec. 31.....	625.68	65,830	-2,830
CAL YR 1983.....	--	--	-8,490
Jan. 31.....	621.76	62,210	-3,620
Feb. 29.....	620.59	61,140	-1,070
Mar. 31.....	622.92	63,270	+2,130
Apr. 30.....	619.88	60,500	-2,770
May 31.....	618.68	59,420	-1,080
June 30.....	620.49	61,050	+1,630
July 31.....	620.11	60,710	-340
Aug. 31.....	616.21	57,230	-3,480
Sept. 30.....	613.36	54,740	-2,490
WTR YR 1984.....	--	--	-17,310

SAN DIEGO RIVER BASIN

11022200 LOS COCHES CREEK NR LAKESIDE, CA

LOCATION.--Lat 32°49'57", long 116°54'15", in Ex Mission San Diego Grant, San Diego County, Hydrologic Unit 18070304, on upstream right bank side of bridge on Old Highway 8, 2.7 mi upstream from mouth, and 1.9 mi southeast of Lakeside.

DRAINAGE AREA.--1.08 mi².

PERIOD OF RECORD.--October 1983 to September 1984.

GAGE.--Water-stage recorder. Altitude of gage is 560 ft, from topographic map.

REMARKS.--Record good except periods of no gage-height record, which are fair. No regulation or diversion above station.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 50 ft³/s, estimated, Nov. 20; minimum daily, 0.07 ft³/s July 12,13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	.55	3.7	1.4	1.4	1.0	.71	.46	.17	.11	.21	.20
2	2.0	.50	.60	1.4	1.3	1.0	.67	.46	.19	.25	.26	.21
3	.75	.55	23	1.4	1.2	1.1	.64	.45	.20	.19	.35	.19
4	.65	.55	1.0	1.5	1.2	1.1	.69	.42	.22	.12	.23	.18
5	.60	.55	.55	1.5	1.2	1.0	.67	.39	.25	.11	.19	.17
6	.50	.50	.50	1.5	1.2	1.0	.87	.37	.26	.09	.17	.17
7	10	.55	.50	1.5	1.1	1.0	.71	.32	.28	.10	.16	.17
8	.75	.60	.50	1.5	1.1	1.0	.61	.28	.24	.09	.15	.17
9	.70	.55	7.0	1.5	1.2	1.0	.36	.24	.21	.08	.15	.18
10	.65	.55	1.8	1.6	1.2	1.0	.57	.24	.19	.09	.14	.19
11	.60	.55	.80	1.6	1.2	1.0	.47	.24	.18	.08	.14	.23
12	.55	12	.85	1.5	1.2	1.0	.43	.24	.17	.07	.15	.23
13	.55	4.5	.85	1.7	1.1	1.0	.44	.20	.17	.07	.14	.23
14	.60	.60	.80	1.6	1.0	.90	.41	.18	.16	.15	.15	.23
15	.55	.50	.80	1.6	.97	.95	.40	.18	.15	.11	.15	.22
16	.50	.50	.80	3.9	.99	.93	.43	.19	.15	.10	.14	.21
17	.55	.50	.75	2.2	1.0	.85	.45	.20	.16	.09	.21	.17
18	.60	1.8	.75	1.7	1.1	.76	.47	.19	.15	.09	.24	.14
19	.65	.50	.75	1.7	1.1	.70	.93	.18	.15	.09	.34	.15
20	.75	50	.80	1.7	.97	.67	.58	.19	.15	.09	.36	.15
21	.70	7.0	.75	1.6	.99	.70	.51	.20	.14	.10	.31	.16
22	.70	.65	.75	1.5	1.0	.70	.49	.20	.14	.13	.27	.20
23	.70	.50	.85	1.5	1.0	.67	.48	.19	.14	.14	.24	.20
24	.75	.50	15	1.5	1.0	.65	.48	.19	.12	.12	.22	.20
25	.65	49	29	1.5	1.0	.70	.45	.20	.13	.11	.24	.21
26	.55	.65	13	1.5	1.0	.78	.43	.20	.11	.10	.23	.20
27	.50	.55	9.0	1.3	1.0	.72	.46	.22	.10	.25	.22	.20
28	.55	.55	4.0	1.4	1.0	.72	.44	.18	.11	.21	.20	.19
29	.50	.50	1.5	1.4	1.0	.61	.43	.15	.11	.17	.18	.16
30	.50	.55	1.5	1.4	---	.60	.43	.17	.12	.16	.18	.19
31	.55	---	1.5	1.4	---	.63	---	.17	---	.16	.17	---
TOTAL	30.15	137.35	123.95	50.0	31.72	26.54	16.11	7.69	5.02	3.86	6.49	5.74
MEAN	.97	4.58	4.00	1.61	1.09	.86	.54	.25	.17	.12	.21	.19
MAX	10	50	29	3.9	1.4	1.1	.93	.46	.28	.25	.36	.23
MIN	.50	.50	.50	1.3	.97	.60	.36	.15	.10	.07	.14	.14
AC-FT	60	272	246	99	63	53	32	15	10	7.7	13	11

WTR YR 1984 TOTAL 444.62 MEAN 1.21 MAX 50 MIN .07 AC-FT 882

NOTE.--No gage-height record Oct. 1 to Dec. 29.

11022350 FORESTER CREEK AT EL CAJON, CA

LOCATION.--Lat 32°49'16", long 116°58'32", in Ex-Mission San Diego Grant, San Diego County, Hydrologic Unit 18070304, on right bank at downstream side of bridge on Billy Mitchell Drive, 0.8 mi upstream from unnamed tributary, and 3.6 mi upstream from mouth.

DRAINAGE AREA.--21.3 mi².

PERIOD OF RECORD.--October 1983 to September 1984.

GAGE.--Water-stage recorder. Altitude of gage is 368 ft, from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,790 ft³/s Nov. 25, gage height, 7.78 ft, from rating curve extended above 600 ft³/s; minimum daily, 0.69 ft³/s July 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	1.1	7.4	1.2	1.6	1.2	1.0	1.3	1.5	1.2	.77	1.1
2	4.0	1.0	1.2	1.2	1.6	1.0	1.0	1.4	1.3	2.6	.91	1.0
3	1.5	1.1	45	1.2	1.6	1.0	1.0	1.5	1.3	.98	.88	1.0
4	1.3	1.1	2.1	1.2	1.6	1.0	1.0	1.5	1.5	.81	.85	1.1
5	1.2	1.1	1.1	20	1.6	1.1	1.0	1.7	1.5	.86	.81	1.3
6	1.1	1.0	1.0	1.4	1.6	1.1	11	1.5	1.8	1.0	1.0	1.3
7	20	1.1	1.0	1.3	1.3	1.1	.90	1.6	3.7	.94	.91	1.2
8	1.5	1.2	1.0	1.2	1.2	1.1	.81	1.5	1.2	.85	.92	1.2
9	1.4	1.1	14	1.2	1.3	1.1	.90	1.7	1.1	.96	.99	1.2
10	1.3	1.1	3.6	1.2	2.3	1.1	.90	1.5	1.1	1.0	1.0	1.3
11	1.2	2.4	1.6	1.3	1.2	1.2	.81	1.6	1.2	1.1	.95	1.2
12	1.1	23	1.7	1.2	1.2	1.2	.81	1.7	1.2	1.0	.97	1.2
13	1.1	9.0	1.7	7.7	1.3	1.2	.90	1.6	1.2	.99	1.1	1.2
14	1.2	1.2	1.6	2.5	1.3	1.2	.90	1.9	1.1	1.7	1.2	1.1
15	1.1	.97	1.6	1.3	1.1	1.2	.81	1.8	1.2	.82	1.3	1.0
16	1.0	1.0	1.6	12	1.1	1.2	.90	1.8	1.1	.88	1.2	1.2
17	1.1	1.0	1.5	2.2	1.1	1.1	.90	1.7	1.2	1.0	3.8	.97
18	1.2	3.6	1.5	1.6	1.1	1.1	.90	1.6	1.3	1.0	1.0	.99
19	1.3	1.0	1.5	1.7	1.0	1.2	5.3	1.6	1.2	1.0	1.0	1.0
20	1.5	103	1.6	1.8	1.0	1.3	.90	1.6	1.3	.99	1.1	1.1
21	1.4	14	1.5	1.8	1.0	1.1	.81	1.7	1.3	.89	1.1	1.0
22	1.4	1.3	1.5	1.8	1.1	1.1	.81	1.8	1.3	.81	1.1	.94
23	1.4	1.0	1.7	1.8	1.1	1.7	1.0	1.8	1.4	1.0	1.2	.90
24	1.5	1.0	29	1.8	1.0	1.1	1.0	1.9	1.4	.99	1.1	1.0
25	1.3	105	57	1.9	1.0	1.0	1.0	2.1	1.4	.98	1.1	1.0
26	1.1	1.3	25	1.7	1.0	1.1	1.0	1.8	1.3	.92	1.0	.99
27	1.0	1.1	18	1.7	1.0	1.2	8.8	1.7	1.5	5.9	1.1	.94
28	1.1	1.1	1.8	1.7	1.1	1.2	1.8	1.8	1.8	.90	1.1	.97
29	.98	1.0	1.4	1.8	1.0	1.1	1.3	1.8	1.8	.69	1.2	.93
30	1.0	1.1	1.2	1.9	---	1.1	1.4	1.5	1.3	.78	1.2	.94
31	1.1	---	1.3	1.6	---	1.6	---	1.4	---	.72	4.2	---
TOTAL	60.38	284.97	232.7	83.9	36.4	36.0	51.56	51.4	42.5	36.26	38.06	32.27
MEAN	1.95	9.50	7.51	2.71	1.26	1.16	1.72	1.66	1.42	1.17	1.23	1.08
MAX	20	105	57	20	2.3	1.7	11	2.1	3.7	5.9	4.2	1.3
MIN	.98	.97	1.0	1.2	1.0	1.0	.81	1.3	1.1	.69	.77	.90
AC-FT	120	565	462	166	72	71	102	102	84	72	75	64

WTF YR 1984 TOTAL 986.40 MEAN 2.70 MAX 105 MIN .69 AC-FT 1960

SAN DIEGO RIVER BASIN

11023000 SAN DIEGO RIVER AT FASHION VALLEY, AT SAN DIEGO, CA

LOCATION.--Lat 32°45'54", long 117°10'04", in Ex Mission San Diego Grant, San Diego County, Hydrologic Unit 18070304, on left bank 2.6 mi upstream from mouth, 500 ft upstream from Fashion Valley road crossing, 0.4 mi downstream from unnamed tributary, and 26.4 mi downstream from El Capitan Reservoir.

DRAINAGE AREA.--429 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1982 to current year.

REVISED RECORDS.--WDR CA-83-1: 1982.

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

REMARKS.--Records excellent. Flow regulated by Cuyamaca Reservoir, capacity 11,540 acre-ft, 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,280 ft³/s Mar. 2, 1983, gage height, 13.11 ft, from rating curve extended above 5,800 ft³/s; no flow many days during September 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 612 ft³/s Nov. 25, gage height, 5.62 ft; no flow many days during September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	5.0	26	100	154	12	7.1	6.5	1.2	1.2	.87	.18
2	19	5.0	20	121	155	12	6.2	6.6	1.2	1.3	.69	.01
3	10	4.5	53	126	154	11	5.8	6.2	1.5	.87	.68	.19
4	8.2	3.7	103	136	155	13	6.0	6.0	1.6	.67	.78	.33
5	7.7	5.0	51	191	114	13	6.0	5.9	1.3	.79	1.1	.19
6	7.0	6.5	29	163	67	11	17	6.3	1.4	.68	1.0	.03
7	26	6.7	22	99	50	9.9	25	5.6	2.0	.67	.82	0
8	22	5.1	18	80	37	9.2	22	4.6	2.4	.90	.80	0
9	18	4.9	22	120	33	8.8	13	4.2	2.5	.96	.69	0
10	12	5.6	49	128	36	9.1	10	3.4	2.7	.67	.90	0
11	8.9	7.2	31	143	35	9.5	7.9	3.4	2.6	.61	.59	.04
12	7.2	80	19	147	32	8.2	7.6	3.7	2.2	.59	.59	.03
13	7.5	87	16	142	28	7.2	7.3	4.2	1.8	.60	.56	0
14	7.4	48	14	122	27	6.8	7.9	3.8	1.6	1.2	.46	0
15	6.4	24	22	147	25	7.2	7.8	3.0	1.4	1.3	.34	0
16	5.7	16	76	162	24	7.4	7.3	3.3	1.3	1.6	.25	0
17	5.4	11	97	184	24	7.9	6.2	2.9	1.8	1.2	.59	0
18	5.3	10	101	170	24	7.6	6.3	2.7	1.7	.94	.57	0
19	4.3	11	105	152	23	6.9	20	2.9	1.1	.89	.69	0
20	4.0	165	112	152	22	6.5	12	3.1	.90	.71	.57	0
21	4.8	176	121	155	21	6.5	8.7	2.7	.85	.73	.46	0
22	5.8	83	124	155	19	7.0	8.1	2.1	.71	1.0	.44	0
23	6.1	39	122	153	18	7.2	7.8	2.1	.80	1.2	.39	0
24	5.5	32	143	154	17	8.1	6.4	2.0	1.2	.98	.31	0
25	5.3	316	318	154	16	8.5	6.1	1.9	1.2	.91	.34	0
26	4.6	98	292	155	17	7.3	5.9	1.9	.86	.77	.42	0
27	4.9	42	184	154	17	6.1	8.5	2.3	.74	.72	.40	0
28	5.1	26	105	155	15	5.6	45	2.2	.70	.90	.33	0
29	4.5	21	62	156	14	6.4	12	1.9	.80	1.3	.21	0
30	5.8	21	44	154	---	6.0	7.5	1.4	1.0	1.1	.44	0
31	5.8	---	51	156	---	6.9	---	1.2	---	.98	.20	---
TOTAL	263.2	1365.2	2552	4486	1373	259.8	324.4	110.0	43.06	26.94	17.50	1.00
MEAN	8.49	45.5	82.3	145	47.3	8.38	10.8	3.55	1.44	.93	.56	.033
MAX	26	316	318	191	155	13	45	6.6	2.7	1.6	1.1	.33
MIN	4.0	3.7	14	80	14	5.6	5.8	1.2	.70	.59	.20	0
AC-FT	522	2710	5060	8900	2720	515	643	218	85	57	35	2.0
CAL YR 1983	TOTAL	46553.5	MEAN	128	MAX	4760	MIN	3.5	AC-FT	92340		
WTR YR 1984	TOTAL	10824.10	MEAN	29.6	MAX	318	MIN	0	AC-FT	21470		

WATER-QUALITY RECORDS

SEDIMENT RECORDS: January to September 1984.

SEDIMENT DISCHARGE: Maximum daily, 66 tons, January 5; minimum daily, 0 ton many days in September.

[illegible]

SAN DIEGO RIVER BASIN

11023000 SAN DIEGO RIVER AT FASHION VALLEY, AT SAN DIEGO, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), JANUARY TO SEPTEMBER 1984

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	100	46	12	154	34	14	12	19	.62
2	121	50	16	155	31	13	12	18	.58
3	126	42	14	154	30	12	11	17	.50
4	136	28	10	155	29	12	13	14	.49
5	191	111	66	114	28	8.6	13	13	.46
6	163	39	17	67	27	4.9	11	12	.36
7	99	27	7.2	50	25	3.4	9.9	19	.51
8	80	26	5.6	37	16	1.6	9.2	15	.37
9	120	27	8.7	33	18	1.6	8.8	5	.12
10	128	28	9.7	36	18	1.7	9.1	6	.15
11	143	35	14	35	15	1.4	9.5	8	.21
12	147	58	23	32	13	1.1	8.2	10	.22
13	142	57	22	28	9	.68	7.2	11	.21
14	122	42	14	27	15	1.1	6.8	13	.24
15	147	56	22	25	12	.81	7.2	19	.37
16	162	86	40	24	11	.71	7.4	28	.56
17	184	68	34	24	10	.65	7.9	24	.51
18	170	36	17	24	10	.65	7.6	21	.43
19	152	30	12	23	12	.75	6.9	19	.35
20	152	29	12	22	13	.77	6.5	23	.40
21	155	28	12	21	15	.85	6.5	19	.33
22	155	28	12	19	17	.87	7.0	16	.30
23	153	28	12	18	14	.68	7.2	20	.39
24	154	30	12	17	13	.60	8.1	17	.37
25	154	32	13	16	15	.65	8.5	17	.39
26	155	32	13	17	18	.83	7.3	11	.22
27	154	29	12	17	21	.96	6.1	12	.20
28	155	28	12	15	16	.65	5.6	21	.32
29	156	26	11	14	19	.72	6.4	14	.24
30	154	25	10	---	---	---	6.0	22	.36
31	156	32	13	---	---	---	6.9	15	.28
TOTAL	4486	---	508.2	1373	---	88.23	259.8	---	11.06
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	7.1	13	.25	6.5	6	.11	1.2	20	.06
2	6.2	18	.30	6.6	4	.07	1.2	17	.06
3	5.8	27	.36	6.2	6	.10	1.5	21	.11
4	6.0	14	.23	6.0	7	.11	1.6	27	.13
5	6.0	19	.31	5.9	10	.16	1.3	30	.05
6	17	36	1.9	6.3	10	.17	1.4	14	.10
7	25	23	1.6	5.6	10	.15	2.0	27	.19
8	22	10	.59	4.6	12	.15	2.4	25	.23
9	13	5	.18	4.2	13	.15	2.5	36	.24
10	10	9	.24	3.4	14	.13	2.7	35	.28
11	7.9	14	.30	3.4	19	.17	2.6	39	.17
12	7.6	12	.25	3.7	19	.19	2.2	24	.14
13	7.3	11	.22	4.2	19	.22	1.8	24	.13
14	7.9	12	.26	3.6	20	.21	1.6	27	.12
15	7.8	13	.27	3.0	22	.18	1.4	28	.11
16	7.3	12	.24	3.3	22	.20	1.3	29	.10
17	6.2	12	.20	2.9	20	.16	1.8	30	.15
18	6.3	6	.10	2.7	19	.14	1.7	31	.14
19	20	88	5.7	2.9	17	.13	1.1	32	.10
20	12	68	2.2	3.1	18	.15	.90	32	.08
21	8.7	33	.78	2.7	20	.15	.85	29	.07
22	8.1	18	.39	2.1	23	.13	.71	28	.05
23	7.6	10	.21	2.1	21	.12	.80	29	.06
24	6.4	3	.05	2.0	22	.12	1.2	31	.10
25	6.1	3	.05	1.9	34	.17	1.2	36	.12
26	5.9	3	.05	1.9	44	.23	.86	50	.12
27	8.5	12	.91	2.3	51	.32	.74	46	.07
28	45	65	9.9	2.2	52	.31	.70	41	.08
29	12	20	.65	1.9	44	.23	.80	40	.09
30	7.5	6	.12	1.4	32	.12	1.0	37	.10
31	---	---	---	1.2	33	.11	---	---	---
TOTAL	324.4	---	28.81	110.0	---	5.06	43.06	---	3.55

11023000 SAN DIEGO RIVER AT FASHION VALLEY, AT SAN DIEGO, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), JANUARY TO SEPTEMBER 1984

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.2	39	.13	.87	25	.06	.18	13	.01
2	1.3	38	.13	.69	19	.04	.01	11	0
3	.87	35	.08	.68	18	.03	.19	9	0
4	.67	30	.05	.78	22	.05	.33	7	.01
5	.79	24	.05	1.1	27	.08	.19	5	0
6	.68	18	.03	1.0	32	.09	.03	4	0
7	.67	17	.03	.82	38	.08	0	0	0
8	.90	19	.05	.80	45	.10	0	0	0
9	.96	25	.06	.69	48	.09	0	0	0
10	.67	32	.06	.90	47	.12	0	0	0
11	.61	38	.06	.59	48	.07	.04	7	0
12	.59	28	.04	.59	46	.08	.03	15	0
13	.60	21	.03	.56	46	.07	0	0	0
14	1.2	20	.06	.46	47	.06	0	0	0
15	1.3	19	.07	.34	52	.04	0	0	0
16	1.6	19	.08	.25	37	.04	0	0	0
17	1.2	19	.06	.59	26	.04	0	0	0
18	.94	14	.04	.57	27	.04	0	0	0
19	.89	8	.02	.69	24	.04	0	0	0
20	.71	9	.02	.57	27	.04	0	0	0
21	.73	7	.01	.48	26	.03	0	0	0
22	1.0	12	.03	.44	25	.03	0	0	0
23	1.2	18	.06	.39	22	.02	0	0	0
24	.98	34	.09	.31	20	.02	0	0	0
25	.91	29	.07	.34	17	.02	0	0	0
26	.77	17	.04	.42	16	.02	0	0	0
27	.72	24	.05	.40	13	.01	0	0	0
28	.90	19	.05	.33	11	.01	0	0	0
29	1.3	16	.06	.21	16	.01	0	0	0
30	1.1	18	.05	.44	18	.02	0	0	0
31	.98	22	.06	.20	15	.01	---	---	---
TOTAL	28.94	---	1.72	17.50	---	1.46	1.00	---	.02
YEAR 10824.10			648.11						

SAN DIEGO RIVER BASIN

11023000 SAN DIEGO RIVER AT FASHION VALLEY, AT SAN DIEGO, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR JANUARY TO SEPTEMBER 1984

MONTH	WATER DISCHARGE FT ³ /s-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
JANUARY 1984	4486.00	508.20	164	672
FEBRUARY ...	1373.00	88.23	27	115
MARCH	259.80	11.06	0	11
APRIL	324.40	28.81	0	29
MAY	110.00	5.06	0	5
JUNE	43.06	3.55	0	4
JULY	28.94	1.72	0	2
AUGUST	17.50	1.46	0	1
SEPTEMBER ..	1.00	0.02	0	0
TOTAL	6643.70	648.11	191	839

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR JANUARY TO SEPTEMBER 1984

DATE	TIME	STREAM FLOW, INSTAN- TANEOUS (FT ³ /s)	TEMPER- ATURE (DEG C)	SEDI- MENT SUS- PEN- DED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PEN- DED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM
JAN 05...	1105	183	14.0	228	113	91	97	100
APR 06...	0900	22	16.5	64	3.6	100	--	--
20...	0915	19	19.0	82	4.2	99	99	100

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR JANUARY TO SEPTEMBER 1984

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM FLOW, INSTAN- TANEOUS (FT ³ /s)	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
JAN 10...	0900	14.0	3	114	8	21	51	93	99	100

LOS PENASQUITOS CREEK BASIN

95

11023250 POWAY CREEK NEAR POWAY, CA

LOCATION.--Lat 32°57'13", long 117°00'50", in NE 1/4 SE 1/4 sec.18, T.14 S., R.1 W., San Diego County, Hydrologic Unit 18070304, on right bank 100 ft downstream from unnamed tributary, 1,000 ft upstream from bridge on Standish Drive, and 1.4 mi southeast of Poway Post Office.

DRAINAGE AREA.--7.92 mi².

PERIOD OF RECORD.--October 1977 to current year. Data for period October 1969 to October 1977 are available in files of the Geological Survey.

GAGE.--Water-stage recorder. Altitude of gage is 540 ft, from topographic map.

REMARKS.--Records fair. Flow partly regulated by small conservation reservoirs.

AVERAGE DISCHARGE.--7 years, 2.04 ft³/s, 1,480 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 755 ft³/s Feb. 21, 1980, gage height, 7.26 ft on basis of rating extended above 40 ft³/s based on a step-backwater analysis up to 8.3 ft; no flow many months each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8.20 ft³/s Nov. 25, gage height, 4.49 ft, no peak above base of 10 ft³/s; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	0	0	.01	.01	0	0					
2	.02	0	0	0	.01	.02	0					
3	.01	0	.17	0	.01	0	0					
4	0	0	.06	0	.01	0	0					
5	0	0	.01	.01	.01	0	0					
6	0	0	.05	.01	.01	0	0					
7	.11	0	0	.01	.01	0	0					
8	.01	0	0	.01	0	0	0					
9	.01	0	0	.01	.01	0	0					
10	.01	0	0	.01	.01	0	0					
11	.01	0	0	.01	.01	0	0					
12	.01	.09	0	.01	.01	0	0					
13	0	.02	0	.02	0	0	0					
14	0	0	0	.02	.01	0	0					
15	0	0	0	.01	0	0	0					
16	0	0	0	.14	0	0	0					
17	0	0	0	.03	0	0	0					
18	0	.03	0	0	0	0	0					
19	0	0	.01	0	0	0	0	.02				
20	0	.51	.01	0	0	0	0	0				
21	0	.14	0	0	0	0	0					
22	0	0	0	0	0	0	0					
23	0	0	0	0	0	0	0					
24	0	0	.11	0	0	0	0					
25	0	.55	.53	0	0	0	0					
26	0	.01	.38	0	0	0	0					
27	0	0	.40	0	0	0	0					
28	0	0	.09	0	.03	0	0					
29	0	0	.05	0	0	0	0					
30	0	0	.04	.01	---	0	0					
31	0	---	.03	.01	---	0	---					
TOTAL	0.24	1.35	1.94	0.33	0.15	0.02	0.02	0	0	0	0	0
MEAN	.008	.045	.063	.011	.005	.000	.000	0	0	0	0	0
MAX	.11	.55	.53	.14	.03	.02	.02	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	.5	2.7	3.8	.7	.3	.04	.04	0	0	0	0	0
CAL YR 1983	TOTAL	1517.26	MEAN	4.16	MAX	150	MIN	0	AC-FT	3010		
WTR YR 1984	TOTAL	4.05	MEAN	.011	MAX	.55	MIN	0	AC-FT	8.0		

LOS PENASQUITOS CREEK BASIN

11023310 RATTLESNAKE CREEK AT POWAY, CA

LOCATION.--Lat 32°57'07", long 117°02'56", in SE 1/4 SE 1/4 sec.14, T.14 S., R.2 W., San Diego County, Hydrologic Unit 18070304, on right bank 400 ft above mouth, and 1.0 mi southwest of Poway Post Office.

DRAINAGE AREA.--8.13 mi².

PERIOD OF RECORD.--October 1977 to current year. Data for period October 1969 to October 1977 are available in files of the Geological Survey.

GAGE.--Water-stage recorder. Altitude of gage is 457 ft, from topographic map.

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

AVERAGE DISCHARGE.--7 years, 3.33 ft³/s, 2,410 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,430 ft³/s Feb. 21, 1980, gage height, 2.88 ft from rating curve extended above 100 ft³/s on basis of stepback-water computations and slope-conveyence study at 1.20 ft; no flow for much of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 66 ft³/s Nov. 25, gage height, 1.07 ft, no peak above base of 100 ft³/s; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	.01	.38	1.4	.70	.21	.29	.01				
2	.21	.01	.50	1.2	.73	.21	.08	.01				
3	.10	.01	1.5	1.2	.70	.21	.07	.01				
4	.12	.01	.70	1.2	.61	.21	.06	.01				
5	.09	.01	.50	1.3	.47	.18	.07	.01				
6	.13	.01	.40	1.2	.47	.19	3.0	0				
7	1.8	.01	.30	.92	.47	.15	.06	0				
8	.03	.01	.30	.92	.47	.14	.04	0				
9	.02	.01	.30	.92	.47	.15	.04	0				
10	.02	.01	.50	.92	.65	.16	.04	0				
11	.01	.01	.32	.94	.47	.13	.04	0				
12	.01	1.1	.30	.93	.47	.12	.04	0				
13	.01	.26	.35	.92	.47	.10	.03	0				
14	.01	.04	.30	.92	.47	.40	.03	0				
15	.01	.03	.30	.92	.47	.15	.03	0				
16	.01	.02	.30	2.8	.50	.12	.02	0				
17	.01	.02	.35	1.7	.36	.10	.02	0				
18	.01	.10	.35	.79	.32	.11	.02	0				
19	.01	.02	.35	.82	.32	.09	.76	0				
20	.01	6.8	.35	.77	.28	.09	.04	0				
21	.01	2.7	.39	.76	.28	.11	.03	0				
22	.01	.77	.32	.76	.32	.10	.03	0				
23	.01	.70	.51	.72	.26	.08	.03	0				
24	.01	.63	3.6	.70	.24	.09	.02	0				
25	.01	5.0	12	.75	.24	.09	.02	0				
26	0	1.0	4.9	.91	.21	.10	.02	0				
27	0	.30	7.5	.80	.21	.09	.04	0				
28	0	.30	2.8	.67	.21	.06	.04	0				
29	0	.30	2.1	.70	.21	.07	.02	0				
30	0	.30	1.6	.71	---	.06	.01	0				
31	.01	---	1.6	.70	---	.07	---	0				
TOTAL	3.98	20.50	45.97	30.87	12.05	4.14	5.04	0.05	0	0	0	0
MEAN	.13	.68	1.48	1.00	.42	.13	.17	.002	0	0	0	0
MAX	1.8	6.8	12	2.8	.73	.40	3.0	.01	0	0	0	0
MIN	0	.01	.30	.67	.21	.06	.01	0	0	0	0	0
AC-FT	7.9	41	91	61	24	8.2	10	.1	0	0	0	0
CAL YR 1983	TOTAL	1436.61	MEAN	3.94	MAX	97	MIN	0	AC-FT	2850		
WTR YR 1984	TOTAL	122.60	MEAN	.33	MAX	12	MIN	0	AC-FT	243		

11023325 BEELER CREEK AT POMERADO ROAD NEAR POWAY, CA

LOCATION.--Lat 32°56'23", long 117°03'57", in SW 1/4 NW 1/4 SW 1/4 sec.23, T.14 S., R.2 W., San Diego County, Hydrologic Unit 18070304, on right downstream wingwall of bridge on Pomerado Road, 0.8 mi upstream from Poway Creek, and 1.7 mi southwest of Poway Post Office.

DRAINAGE AREA.--5.46 mi².

PERIOD OF RECORD.--October 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 465 ft, from topographic map.

REMARKS.--Records good. Flow partially regulated by several conservation reservoirs above station.

AVERAGE DISCHARGE.--8 years, 2.26 ft³/s, 1,640 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,410 ft³/s Jan. 29, 1980, gage height, 9.20 ft, from rating curve extended above 80 ft³/s on basis of slope-area measurement at gage height 8.79 ft; no flow for much of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1.00 ft³/s Nov. 25, gage height, 4.57 ft, no peak above base of 100 ft³/s; minimum daily, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	.01	.02	.01	.01					
2		0	0	.01	.02	.01	.01					
3		0	.02	.01	.02	.01	.01					
4		0	.01	.01	.02	.01	.01					
5		0	.01	.01	.02	.01	.02					
6		0	.01	.01	.02	.01	.03					
7		0	.01	.01	.02	.01	.02					
8		0	.01	.02	.02	.01	.02					
9		0	.01	.02	.02	.01	.01					
10		0	.01	.02	.02	.01	.01					
11		0	.01	.02	.02	.01	.01					
12		0	.01	.02	.02	.01	.01					
13		0	.02	.03	.04	.01	.01					
14		0	.02	.02	.04	.01	0					
15		0	.02	.03	.06	.01	0					
16		0	.02	.03	.07	.01	0					
17		0	.02	.02	.07	.01	0					
18		0	.02	.02	.07	.01	0					
19		0	.02	.02	.08	.01	0					
20		.03	.02	.02	.03	.01	0					
21		0	.02	.02	.01	.01	0					
22		0	.02	.02	.01	.01	0					
23		0	.02	.02	.01	.01	0					
24		0	.03	.02	.02	.01	0					
25		.04	.07	.02	.02	.01	0					
26		0	.03	.02	.02	.01	0					
27		0	.01	.02	.02	.01	0					
28		0	.01	.02	.01	.01	0					
29		0	.01	.02	.01	.01	0					
30		0	.01	.02	---	.01	0					
31		---	.01	.02	---	.01	---					
TOTAL	0	0.07	0.51	0.58	0.83	0.31	0.18	0	0	0	0	0
MEAN	0	.002	.016	.019	.029	.010	.006	0	0	0	0	0
MAX	0	.04	.07	.03	.08	.01	.03	0	0	0	0	0
MIN	0	0	0	.01	.01	.01	0	0	0	0	0	0
AC-FT	0	.1	1.0	1.2	1.6	.6	.4	0	0	0	0	0
CAL YR 1983	TOTAL	1295.89	MEAN	3.55	MAX	237	MIN	0	AC-FT	2570		
WTR YR 1984	TOTAL	2.48	MEAN	.007	MAX	.08	MIN	0	AC-FT	4.9		

11023330 LOS PENASQUITOS CREEK BELOW POWAY CREEK, NEAR POWAY, CA

LOCATION.--Lat 32°56'58", long 117°04'08", in NW 1/4 NE 1/4 NE 1/4 sec.22, T.14 S., R.2 W., San Diego County, Hydrologic Unit 18070304, on right bank 10 ft upstream from concrete ford on Cobblestone Creek Road, 0.2 mi downstream from confluence of Poway and Pomerado Creeks, and 2.0 mi southwest of Poway.

DRAINAGE AREA.--31.2 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 415 ft, from topographic map.

REMARKS.--Records fair. Flow partly regulated by small conservation reservoirs.

AVERAGE DISCHARGE.--14 years, 6.99 ft³/s, 5,060 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,990 ft³/s Feb. 21, 1980, gage height, 11.11 ft, from rating curve extended above 300 ft³/s on basis of slope-area measurements at gage heights 9.58 ft and 11.11 ft; no flow for parts of some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 216 ft³/s Nov. 25 (0400 hrs), gage height, 5.20 ft, no other peak above base of 200 ft³/s; no flow Sept. 10, 25-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	.52	.76	1.6	1.3	.87	1.3	.13	.10	.14	.08	.08
2	1.4	.47	.78	1.5	1.3	.88	.56	.13	.10	.16	.06	.08
3	.61	.42	.58	1.3	1.3	.81	.42	.10	.09	.18	.03	.09
4	.47	.42	30	1.3	1.2	.85	.42	.12	.11	.19	.06	.09
5	.49	.42	1.6	1.6	1.1	.84	.42	.11	.11	.16	.09	.08
6	.41	.42	1.2	1.6	1.1	.74	9.5	.11	.14	.15	.08	.15
7	9.0	.58	1.2	1.5	1.1	.81	.87	.09	.85	.13	.10	.02
8	1.2	.58	1.8	1.5	1.2	.76	.58	.05	.26	.11	.08	.02
9	.89	.42	1.8	1.5	1.0	.83	.59	.05	.17	.09	.06	.01
10	.72	.42	1.8	1.5	1.5	.73	.59	.03	.16	.10	.05	0
11	.66	.58	.95	1.5	.99	.72	.58	.02	.15	.08	.03	.01
12	.55	16	.95	1.5	1.0	.74	.58	.01	.18	.10	.03	.03
13	.57	21	.95	1.5	.95	.85	.63	.01	.16	.08	.06	.04
14	.93	1.8	1.2	1.6	.95	1.4	.56	.05	.15	.02	.09	.02
15	.51	.95	1.2	1.3	.95	1.1	.63	.03	.15	.04	.04	.03
16	.43	.75	.95	12	.95	.59	.57	.04	.11	.05	.02	.11
17	.62	.75	.95	4.2	.95	.59	.43	.05	.10	.01	.20	.12
18	.78	2.8	.95	1.6	.95	.51	.49	.04	.10	.01	.20	.06
19	.79	.75	1.0	1.4	.80	.39	4.2	.05	.17	.03	.16	.04
20	.93	40	.95	1.4	.67	.33	.62	.06	.11	.05	.19	.04
21	.64	20	.98	1.3	.52	.30	.35	.07	.10	.08	.17	.04
22	.61	1.2	.97	1.3	.42	.41	.25	.10	.10	.08	.12	.06
23	.64	.75	1.2	1.2	.37	.58	.18	.10	.15	.08	.11	.02
24	.56	10	18	1.3	.42	.51	.22	.09	.18	.08	.11	.01
25	.49	44	58	1.4	.42	.58	.20	.10	.19	.10	.11	0
26	.43	1.2	13	1.3	.37	.58	.18	.08	.15	.11	.11	0
27	.32	.75	32	1.4	.57	.58	.17	.09	.08	.12	.13	0
28	.36	.58	2.5	1.2	.79	.54	.47	.11	.08	.11	.11	0
29	.36	.42	1.8	1.2	.91	.43	.22	.09	.10	.05	.10	0
30	.42	.42	1.8	1.2	---	.46	.18	.05	.11	.06	.10	0
31	.91	---	1.7	1.2	---	.50	---	.05	---	.09	.10	---
TOTAL	32.20	169.37	183.52	56.9	26.05	20.81	26.96	2.21	4.71	2.84	2.98	1.25
MEAN	1.04	5.65	5.92	1.84	.90	.67	.90	.071	.16	.092	.096	.042
MAX	9.0	44	58	12	1.5	1.4	9.5	.13	.85	.19	.20	.15
MIN	.32	.42	.58	1.2	.37	.30	.17	.01	.08	.01	.02	0
AC-FT	64	336	364	113	52	41	53	4.4	9.3	5.6	5.9	2.5
CAL YR 1983	TOTAL	7791.64	MEAN	21.3	MAX	910	MIN	.26	AC-FT	15450		
WTR YR 1984	TOTAL	529.80	MEAN	1.45	MAX	58	MIN	0	AC-FT	1050		

11023340 LOS PENASQUITOS CREEK NEAR POWAY, CA

LOCATION.--Lat 32°56'35", long 117°07'15", in Los Penasquitos Grant, San Diego County, Hydrologic Unit 18070304, on left bank 1.0 mi downstream from Cypress Creek, and 5.5 mi southwest of Poway.

DRAINAGE AREA.--42.1 mi².

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 260 ft, from topographic map.

REMARKS.--Records good. 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.--20 years, 8.55 ft³/s, 6,190 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,750 ft³/s Feb. 21, 1980, gage height, 10.26 ft from rating curve extended above 1,400 ft³/s; no flow at times in 1968, 1972, and 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 298 ft³/s Nov. 25, gage height, 3.93 ft, no peak above base of 400 ft³/s; minimum daily, 0.16 ft³/s June 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	.87	1.8	2.2	1.7	1.1	1.8	.65	.17	.33	.39	.51
2	2.5	.83	1.8	2.0	1.7	1.1	1.8	.66	.17	.30	.39	.49
3	1.2	.78	20	1.8	1.7	1.1	1.0	.66	.21	.33	.51	.48
4	.96	.90	20	1.7	1.6	1.1	.88	.62	.27	.33	.51	.52
5	.91	.79	2.4	2.5	1.5	1.1	.87	.58	.26	.35	.54	.55
6	.84	.75	1.9	2.5	1.5	1.1	12	.49	.31	.31	.52	.55
7	12	.74	1.7	2.0	1.5	1.1	3.2	.38	2.5	.30	.48	.48
8	3.2	.77	1.9	1.8	1.5	1.1	1.2	.34	1.4	.28	.46	.49
9	1.4	.81	2.1	1.8	1.8	1.1	.97	.27	.30	.25	.47	.49
10	1.1	.75	4.1	1.8	1.7	1.1	.85	.25	.22	.22	.51	.53
11	.95	.88	1.9	1.8	1.4	1.1	.75	.21	.22	.22	.46	.57
12	.85	21	1.9	1.7	1.4	1.1	.72	.18	.22	.22	.46	.60
13	.80	28	1.7	1.7	1.3	1.1	.67	.40	.22	.23	.43	.62
14	.85	2.9	1.7	1.7	1.3	2.0	.62	.30	.25	.80	.50	.58
15	.91	1.6	1.8	1.7	1.3	1.5	.56	.27	.21	.37	.49	.59
16	.82	1.3	1.6	3.8	1.4	1.1	.58	.24	.19	.28	.49	2.4
17	.82	1.2	1.6	14	1.3	.96	.56	.24	.24	.21	.62	.80
18	.87	3.7	1.6	2.6	1.3	.92	.56	.22	.15	.17	.68	.62
19	.87	1.8	1.5	2.0	1.2	.86	5.6	.21	.25	.19	.64	.58
20	.87	51	1.6	1.9	1.2	.83	2.3	.22	.18	.25	.58	.56
21	.87	26	1.4	1.6	1.2	.79	.97	.22	.16	.27	.55	.57
22	.79	3.7	1.4	1.8	1.2	.79	.66	.22	.21	.36	.56	.70
23	.75	2.0	1.5	1.7	1.2	.79	.57	.33	.21	.41	.55	.80
24	.75	1.7	1.8	1.7	1.2	.79	.58	.25	.24	.34	.52	.73
25	.73	75	61	1.7	1.2	.79	.59	.23	.23	.32	.55	.60
26	.63	3.8	26	1.8	.96	.82	.59	.20	.19	.32	.51	.59
27	.59	2.2	45	1.8	1.0	.94	.56	.20	.38	.30	.47	.60
28	.60	1.8	8.5	1.7	1.0	.93	.66	.23	.29	.33	.47	.66
29	.61	1.6	3.6	1.7	1.1	.79	.92	.20	.44	.44	.50	.60
30	.65	1.6	2.8	1.7	---	.77	.71	.19	.46	.44	.47	.59
31	.84	---	2.5	1.7	---	.86	---	.20	---	.41	.47	---
TOTAL	46.43	240.77	257.1	72.2	39.39	31.53	44.30	9.86	10.87	9.88	15.75	19.45
MEAN	1.50	8.03	8.29	2.33	1.36	1.02	1.48	.32	.36	.32	.51	.65
MAX	12	75	81	14	1.8	2.0	12	.66	2.5	.80	.68	2.4
MIN	.59	.74	1.4	1.7	.99	.77	.56	.18	.16	.17	.39	.48
AC-FT	92	478	510	143	78	63	88	20	22	20	31	39
CAL YR 1983	TOTAL	10063.45	MEAN	27.6	MAX	1000	MIN	.55	AC-FT	19960		
WTR YR 1984	TOTAL	797.53	MEAN	2.18	MAX	81	MIN	.16	AC-FT	1580		

SAN DIEGUITO RIVER BASIN

11025500 SANTA YSABEL CREEK NEAR RAMONA, CA

LOCATION.--Lat 33°06'25", long 116°51'55", in SW 1/4 NW 1/4 sec.27, T.12 S., R.1 E., San Diego County, Hydrologic Unit 18070304, on left bank 1.0 mi downstream from Temescal Creek, and 4.5 mi north of Ramona.

DRAINAGE AREA.--112 mi².

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. Datum of gage is 847.88 ft National Geodetic Vertical Datum of 1929 (levels by city of San Diego Water Department). See WSP 1315-B for history of changes prior to Feb. 3, 1923.

REMARKS.--Records poor. Flow regulated by Sutherland Reservoir (station 11024000) since July 1954. Some small diversions above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,400 ft³/s Jan. 27, 1916, gage height, 14.0 ft, datum then in use, from rating curve extended above 1,500 ft³/s on basis of slope-conveyance computation of maximum flow; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 600 ft³/s Dec. 25, gage height, 4.77 ft; minimum daily, 0.13 ft³/s Sept. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1963 TO SEPTEMBER 1964
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	5.0	7.9	27	17	9.4	26	4.8	.88	.58	.34	.21
2	8.2	5.1	7.8	24	16	9.3	15	4.6	.86	.54	.32	.22
3	6.6	4.8	18	21	16	9.5	10	4.3	1.3	.49	.32	.20
4	5.9	4.3	36	19	15	9.6	9.2	4.1	1.7	.44	.33	.17
5	5.7	4.4	15	19	16	8.8	9.1	3.9	1.6	.43	.32	.17
6	5.2	4.3	13	18	16	8.3	14	3.8	1.7	.41	.30	.13
7	7.4	4.3	12	17	16	8.4	10	3.6	1.6	.39	.27	.20
8	8.1	4.3	11	17	15	9.0	8.3	3.4	1.5	.40	.25	.17
9	7.4	4.1	12	16	14	8.8	7.4	3.3	1.5	.35	.24	.26
10	6.4	4.1	13	15	15	8.8	7.0	3.2	1.5	.28	.25	.31
11	5.6	4.6	11	15	17	8.5	6.8	3.0	1.6	.25	.25	.42
12	4.8	18	11	14	17	8.6	6.4	2.9	1.6	.25	.24	.38
13	4.6	23	10	14	17	8.5	6.2	2.8	1.3	.21	.25	.34
14	4.8	13	10	32	18	8.9	6.0	2.7	1.3	.25	.27	.30
15	5.1	9.2	10	29	17	9.3	5.8	2.6	1.1	.40	.30	.27
16	5.4	7.9	10	28	16	9.1	5.6	2.9	1.1	.58	.25	.26
17	5.9	7.6	10	29	17	9.0	5.4	2.7	.99	.41	.42	.13
18	5.9	8.9	10	28	16	8.6	5.3	2.5	.82	.43	.81	.21
19	5.5	8.2	10	27	16	8.0	7.0	2.3	.83	.42	1.0	.17
20	5.2	22	10	25	15	7.6	6.2	2.1	.77	.31	1.1	.17
21	4.9	36	10	24	13	7.3	5.6	1.9	.73	.31	.88	.23
22	4.4	15	10	23	12	7.2	5.2	1.8	.71	.43	.67	.27
23	4.2	8.5	9.9	22	11	7.1	5.0	1.7	.64	.45	.55	.39
24	4.3	7.5	12	21	10	7.1	4.8	1.6	.62	.34	.46	.36
25	3.9	25	190	22	9.3	7.0	4.6	1.4	.64	.29	.36	.36
26	3.6	14	138	24	9.6	7.0	4.5	1.3	.61	.24	.32	.27
27	3.6	11	136	23	8.5	7.1	4.3	1.2	.55	.30	.26	.28
28	3.7	9.5	57	21	5.6	7.3	5.2	1.1	.55	.63	.17	.28
29	3.9	9.0	43	19	9.0	7.7	5.0	1.0	.64	.60	.17	.25
30	4.2	8.0	36	18	---	8.2	4.9	.96	.66	.42	.17	.26
31	4.4	---	32	17	---	11	---	.92	---	.35	.21	---
TOTAL	166.9	310.6	821.6	668	412.6	260.0	225.8	80.36	32.41	12.18	11.96	7.52
MEAN	5.38	10.4	29.7	21.5	14.2	8.39	7.53	2.59	1.08	.39	.39	.25
MAX	8.2	36	190	32	16	11	26	4.8	1.8	.63	1.1	.42
MIN	3.6	4.1	7.8	14	8.5	7.0	4.3	.92	.55	.21	.17	.13
AC-FT	331	616	1830	1320	816	516	448	159	64	24	24	15
CAL YR 1983	TOTAL	26592.1	MEAN	72.9	MAX	1130	MIN	3.1	AC-FT	52750		
WTF YR 1984	TOTAL	3109.97	MEAN	8.50	MAX	190	MIN	.13	AC-FT	6170		

11028500 SANTA MARIA CREEK NEAR RAMONA, CA

LOCATION.--Lat 33°03'08", long 116°56'41", in SE 1/4 SE 1/4 SE 1/4 sec.11, T.13 S., R.1 W., San Diego County, Hydrologic Unit 18070304, on left bank 3.8 mi northwest of Ramona, and 4.6 mi upstream from mouth.

DRAINAGE AREA.--57.6 mi².

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 National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1946, at datum 1.78 ft lower.

RFMARKS.--Records good, except those below 2.0 ft³/s, which are fair. No regulation above station.

AVERAGE DISCHARGE.--45 years (water years 1914-20, 1947-84) 6.31 ft³/s 4,570 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,200 ft³/s Feb. 21, 1980, gage height, 14.39 ft from rating curve extended above 130 ft³/s on basis of slope-area measurement at gage height 4.56 ft, and slope-conveyance study at gage height 14.39 ft; no flow for several months in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 97 ft³/s Dec. 25, gage height, 2.11 ft, no peak above base of 250 ft³/s; minimum daily discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.76			4.1	1.6	.87	.09	.07	.03	.08	.01
2	0	.51			4.4	1.4	.87	.05	.15	.02	.03	.03
3	0	.30			4.6	1.2	.80	.02	.27	.05	.04	.03
4	0	.37			4.3	.90	.76	.11	.17	.06	.07	.04
5	0	.09			3.9	.65	.23	.08	.34	.04	.12	.03
6	0	.45			3.9	.46	.32	.01	.11	.06	.11	.01
7	1.5	.46			3.3	.36	.20	.02	.18	.01	.02	.03
8	1.4	.26			2.7	.21	.18	.05	.05	.01	.02	.09
9	1.5	.24			3.0	.20	.14	.03	.05	0	.03	.11
10	1.3	.49			3.5	.24	.25	.13	.03	0	.01	.12
11	.76	.45			3.5	.25	.37	.22	.03	0	0	.14
12	.43	.04			3.2	.26	.44	.24	.05	0	0	.08
13	.48	.52			3.2	.21	.46	.02	.07	0	0	.03
14	.12	.62			3.3	.33	.36	.01	.08	.02	0	.05
15	.15	.67	4.6		3.1	.43	.21	.01	.11	.02	0	.01
16	.26	.69	4.1		3.2	.42	.17	.01	.08	.01	0	.01
17	.20	.69	4.2		3.4	.44	.29	.01	.17	0	0	0
18	.20	.77	4.3		3.1	.30	.26	.01	.19	0	.02	0
19	.22	.64	4.1		2.9	.18	.38	.03	.17	.07	.03	.02
20	.10	2.1	4.1		2.5	.18	.34	.01	.07	.09	.03	.07
21	.21	2.2	3.3		2.5	.27	.34	.06	.08	.02	.18	.04
22	.07	.92	3.0		2.7	.42	.32	.10	.07	.18	.02	.06
23	.16	1.1	3.3		2.5	.45	.34	.08	.06	.03	.02	.04
24	.17	.63	5.0		2.8	.38	.15	.15	.08	.03	.01	.04
25	.12				4.2	.23	.22	.09	.10	.01	0	.04
26	.44				2.4	.16	.23	.13	.02	0	0	.03
27	.37			4.3	1.9	.55	.22	.03	.01	.01	0	.05
28	.21	3.2		3.7	2.0	.56	.22	.06	.01	.04	0	.07
29	.29	3.2		3.8	1.9	.20	.25	.02	.02	.03	0	.08
30	.25	3.1		3.9	---	.35	.05	.05	.03	.04	0	.11
31	.47	---		3.7	---	.61	---	.08	---	.07	0	---
TOTAL	11.38	63.47	357.2	204.6	92.0	14.40	10.24	2.01	2.92	0.95	0.84	1.47
MEAN	.37	2.12	11.5	6.60	3.17	.46	.34	.065	.097	.031	.027	.049
MAX	1.5	.21	45	10	4.6	1.6	.87	.24	.34	.18	.18	.14
MIN	0	.09	3.0	3.7	1.9	.16	.05	.01	.01	0	0	0
AC-FT	.23	126	709	406	182	29	20	4.0	5.8	1.9	1.7	2.9
CAL YR 1983	TOTAL	15062.39	MEAN	41.3	MAX	1260	MIN	0	AC-FT	29880		
WTR YR 1984	TOTAL	761.48	MEAN	2.08	MAX	45	MIN	0	AC-FT	1510		

SAN DIEGUITO RIVER BASIN

11030020 LAKE HODGES NEAR ESCONDIDO, CA

LOCATION.--Lat 33°02'41", long 117°07'39", in SE 1/4 SE 1/4 NW 1/4 sec.18, T.13 S., R.2 W., San Diego County, Hydrologic Unit 18070304, 20 ft upstream from right upstream end of Hodges Dam on San Dieguito River, 6.4 mi southwest of Escondido, and 20 mi southwest of Sutherland Reservoir.

DRAINAGE AREA.--303 mi².

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.--Nonrecording gage. Datum of gage is 200.0 ft National Geodetic Vertical Datum of 1929 (levels by county of San Diego); gage readings have been reduced to elevations NGVD. Prior to Oct. 1, 1972, nonrecording gage at site 800 ft upstream on right bank at same datum. October 1972 to current year, supplementary water-stage recorder used for flood warning only, on left upstream face of dam 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, elevation, 315.0 ft. Dead storage below lowest outlet, 1,160 acre-ft, elevation 254.0 ft included in these records. Reservoir can be drawn down to 207 acre-ft, elevation, 240.0 ft 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 city of San Diego, Utilities Engineering Division.

EXTREMES FOR PERIOD OF RECORD (1945-68 AND SINCE 1972).--Maximum contents observed, 41,620 acre-ft, spilling, Feb. 21, 1980, elevation, 321.50 ft; minimum observed, 114 acre-ft Oct. 31, 1965, elevation, 235.80 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 34,550 acre-ft, spilling, Dec. 27, elevation, 315.80 ft; minimum observed, 25,940 acre-ft Sept. 30, elevation, 308.24 ft.

MONTHEND ELEVATION NGVD AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	312.98	31,120	--
Oct. 31.....	313.06	31,210	+90
Nov. 30.....	314.91	33,440	+2,230
Dec. 31.....	315.46	34,130	+690
CAL YR 1983.....	--	--	+2,880
Jan. 31.....	315.32	33,950	-180
Feb. 29.....	315.22	33,830	-120
Mar. 31.....	315.00	33,550	-280
Apr. 30.....	314.69	33,170	-380
May 31.....	313.52	31,760	-1,410
June 30.....	312.32	30,360	-1,400
July 31.....	310.92	28,780	-1,580
Aug. 31.....	309.57	27,320	-1,460
Sept. 30.....	308.24	25,940	-1,380
WTR YR 1984.....	--	--	-5,180

11030500 SAN DIEGUITO CREEK NEAR DELMAR, CA

LOCATION.--Lat 32°54'23", long 117°12'45", in SE 1/4 SW 1/4 sec.6, T.14 S., R.3 W., San Diego County, Hydrologic Unit 18070304, on downstream side of second pier from right bank of El Camino Real bridge, 0.3 mi south of El Camino Real and Via Del La Valle intersection, and 2.6 mi upstream from mouth.

DRAINAGE AREA.--338 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January to September 1984.

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

REMARKS.--Records good except periods of no gage-height record, which are poor. Flow regulated by Lake Hodges, capacity, 33,550 acre-ft since 1919. No other regulation or diversion above station.

EXTREMES FOR PERIOD.--Maximum daily discharge, 68 ft³/s, estimated, Jan. 1; no flow many days during August and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				68	19	10	.50	.25	.09	.03	.08	0
2				66	21	8.0	.40	.25	.09	.03	.08	0
3				64	26	6.0	.40	.25	.09	.02	.08	0
4				62	27	5.0	.40	.25	.10	.02	.08	0
5				60	27	4.0	.40	.30	.10	.02	.08	0
6				58	25	3.5	.80	.30	.15	.02	.08	0
7				56	25	3.0	.70	.30	.20	.02	.08	0
8				54	22	2.5	.60	.25	.18	.02	.08	0
9				52	19	2.0	.50	.25	.16	.02	.08	0
10				50	20	2.0	.45	.20	.10	.02	.08	0
11				47	23	2.0	.40	.20	.06	.02	.07	0
12				48	22	1.5	.40	.15	.06	.02	.07	0
13				42	22	1.5	.35	.15	.06	.02	.06	0
14				38	20	1.5	.35	.15	.06	.02	.06	0
15				40	23	1.0	.30	.15	.06	.02	.05	.24
16				41	22	1.0	.30	.10	.06	.02	.05	1.3
17				56	21	1.0	.25	.10	.05	.04	.04	.21
18				60	22	.90	.25	.10	.04	.06	.04	.01
19				50	20	.90	.20	.10	.03	.06	.03	0
20				46	18	.80	.20	.10	.03	.06	.03	0
21				42	18	.80	.20	.09	.03	.06	.02	0
22				38	16	.70	.20	.09	.03	.06	.02	0
23				36	17	.70	.20	.09	.03	.06	.01	0
24				36	23	.60	.20	.09	.03	.06	.01	0
25				35	21	.60	.20	.09	.03	.07	0	0
26				32	22	.60	.20	.08	.03	.07	0	0
27				39	18	.60	.20	.08	.03	.07	0	0
28				31	14	.50	.20	.08	.03	.07	0	0
29				27	12	.50	.20	.08	.03	.07	0	0
30				25	---	.50	.20	.08	.03	.07	0	0
31				21	---	.50	---	.09	---	.07	0	---
TOTAL				1420	605	64.70	10.15	4.84	2.09	1.29	1.36	1.76
MEAN				45.8	20.9	2.08	.34	.16	.070	.042	.044	.059
MAX				68	27	10	.80	.30	.20	.07	.08	1.3
MIN				21	12	.50	.20	.08	.03	.02	0	0
AC-FT				2820	1200	128	20	9.6	4.1	2.6	2.7	3.5

NOTE.--No gage-height record Jan. 1-9, Feb. 28 to Sept. 15, Sept. 19-30.

SAN DIEGUITO RIVER BASIN

11030500 SAN DIEGUITO RIVER NEAR DEL MAR, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

WATER TEMPERATURES: Water years 1982 to current year.

SEDIMENT RECORDS: Water years 1982 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: January to September 1984.

SEDIMENT RECORDS: January to September 1984.

REMARKS.--Published as periodic sediment record from January 1982 to September 1983.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 820 mg/L, Jan. 12; minimum daily mean, 0 mg/L many days during August and September.

SEDIMENT DISCHARGE: Maximum daily, 145 tons, Jan. 1; minimum daily, 0 ton many days July to September.

TEMPERATURE (DEG. C) OF WATER, JANUARY TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				---	16.0	23.0	---	---		---	---	
2				---	18.0	23.0	---	---		---	30.0	
3				---	16.0	22.0	---	---		---	---	
4				---	11.0	17.0	---	---		---	---	
5				---	---	21.0	---	---		---	---	
6				---	21.0	21.0	---	---		---	---	
7				---	15.0	22.0	---	---		---	30.0	
8				---	18.0	24.0	19.0	---		---	31.0	
9				---	18.0	24.0	19.0	---		---	28.0	
10				16.0	17.0	23.0	22.0	---		---	26.5	
11				---	17.0	18.0	22.0	---		33.5	---	
12				14.0	11.0	23.0	---	---		33.0	---	
13				15.0	18.0	21.0	---	---		27.0	---	
14				13.0	21.0	21.0	29.0	28.5		---	---	
15				13.0	20.0	21.0	---	---		33.0	---	
16				14.0	18.0	24.0	---	26.0		23.0	---	
17				16.0	17.0	23.0	25.0	27.0		---	---	
18				15.0	18.0	---	28.0	27.0		28.5	---	
19				17.0	---	24.0	19.0	28.0		29.5	---	
20				17.0	18.0	25.0	26.0	---		35.0	---	
21				15.0	14.0	25.0	22.0	29.0		---	---	
22				15.0	18.0	26.0	24.0	31.0		24.0	---	
23				16.5	19.0	23.0	30.0	---		32.5	---	
24				18.0	21.0	24.0	---	26.0		---	---	
25				19.0	20.0	---	23.0	28.0		35.0	---	
26				16.0	16.0	23.0	17.0	28.0		---	---	
27				20.0	21.0	---	---	---		36.0	---	
28				19.0	21.0	23.0	---	---		---	---	
29				12.0	23.0	23.0	22.0	---		---	---	
30				19.0	---	23.0	23.0	---		25.0	---	
31				18.0	---	19.0	---	---		---	---	
MONTH				---	---	---	---	---		---	---	

11030500 SAN DIEGUITO RIVER NEAR DEL MAR, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), JANUARY TO SEPTEMBER 1984

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	68	260	145	19	320	16	10	150	4.0
2	66	258	135	21	380	22	8.0	110	2.4
3	64	256	125	26	300	21	6.0	88	1.4
4	62	254	118	27	165	12	5.0	156	2.1
5	60	252	110	27	215	16	4.0	137	1.5
6	58	250	100	25	255	17	3.5	73	.69
7	56	249	93	25	235	16	3.0	75	.61
8	54	248	86	22	260	15	2.5	87	.59
9	52	246	79	19	215	11	2.0	90	.49
10	50	245	73	20	230	12	2.0	60	.32
11	47	325	64	23	210	13	2.0	40	.22
12	46	820	106	22	140	8.3	1.5	49	.20
13	42	705	80	22	230	14	1.5	84	.34
14	38	640	66	20	290	16	1.5	85	.34
15	40	790	85	23	285	18	1.0	65	.18
16	41	650	72	22	240	14	1.0	55	.15
17	56	650	98	21	130	7.4	1.0	47	.13
18	60	500	81	22	130	7.7	.90	46	.11
19	50	245	33	20	170	9.2	.90	50	.12
20	46	320	40	18	218	11	.80	75	.16
21	42	370	42	18	200	9.7	.80	110	.24
22	38	250	26	16	180	7.8	.70	102	.19
23	36	325	32	17	220	10	.70	72	.14
24	36	302	29	23	240	15	.60	58	.09
25	35	345	33	21	280	16	.60	65	.11
26	32	415	36	22	130	7.7	.60	120	.19
27	39	415	44	18	140	6.8	.60	107	.17
28	31	380	32	14	140	5.3	.50	100	.14
29	27	310	23	12	120	3.9	.50	67	.09
30	25	280	17	---	---	---	.50	40	.05
31	21	250	14	---	---	---	.50	53	.07
TOTAL	1420	---	2117	605	---	358.8	64.70	---	17.53
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	.50	63	.07	.25	56	.03	.09	100	.02
2	.40	65	.07	.25	53	.04	.09	85	.02
3	.40	65	.07	.25	49	.03	.09	83	.02
4	.40	64	.07	.25	48	.03	.10	86	.02
5	.40	60	.06	.30	49	.04	.10	97	.03
6	.80	53	.40	.30	51	.04	.15	106	.04
7	.70	50	.30	.30	51	.04	.20	112	.06
8	.60	45	.20	.25	52	.04	.18	118	.06
9	.50	65	.09	.25	52	.04	.16	124	.05
10	.45	55	.07	.20	51	.03	.10	125	.03
11	.40	67	.07	.20	50	.03	.08	125	.03
12	.40	73	.08	.15	50	.02	.06	123	.02
13	.35	61	.06	.15	50	.02	.06	119	.02
14	.35	40	.04	.15	80	.03	.06	108	.02
15	.30	34	.03	.15	90	.04	.06	80	.02
16	.30	40	.03	.10	109	.03	.06	74	.01
17	.25	50	.03	.10	125	.03	.05	78	.01
18	.25	53	.04	.10	133	.04	.04	85	.01
19	.20	52	.03	.10	147	.04	.03	90	.01
20	.20	40	.02	.10	160	.04	.03	83	.01
21	.20	40	.02	.09	163	.04	.03	82	.01
22	.20	80	.04	.09	150	.04	.03	84	.01
23	.20	50	.03	.09	133	.03	.03	87	.01
24	.20	33	.02	.09	120	.03	.03	94	.01
25	.20	22	.01	.09	192	.05	.03	100	.01
26	.20	27	.01	.08	194	.04	.03	105	.01
27	.20	29	.02	.08	155	.03	.03	104	.01
28	.20	30	.02	.08	145	.03	.03	102	.01
29	.20	30	.02	.08	165	.04	.03	97	.01
30	.20	50	.03	.08	210	.05	.03	90	.01
31	---	---	---	.09	160	.04	---	---	---
TOTAL	10.15	---	2.05	4.84	---	1.10	2.09	---	.61

SAN DIEGUITO RIVER BASIN

11030500 SAN DIEGUITO RIVER NEAR DEL MAR, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), JANUARY TO SEPTEMBER 1984

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	.03	85	.01	.08	15	0	0		0
2	.03	85	.01	.08	10	0	0		0
3	.02	86	.01	.08	7	0	0		0
4	.02	90	.01	.08	15	0	0		0
5	.02	95	.01	.08	27	.01	0		0
6	.02	160	.01	.08	47	.01	0		0
7	.02	250	.01	.08	62	.01	0		0
8	.02	283	.02	.08	30	.01	0		0
9	.02	315	.02	.08	15	0	0		0
10	.02	330	.02	.08	10	0	0		0
11	.02	310	.02	.07	10	0	0		0
12	.02	290	.02	.07	11	0	0		0
13	.02	60	0	.06	10	0	0		0
14	.02	10	0	.06	9	0	0		0
15	.02	13	0	.05	9	0	.24		.10
16	.02	50	0	.05	8	0	1.3		.50
17	.04	35	0	.04	7	0	.21		.05
18	.06	15	0	.04	6	0	.01		0
19	.06	8	0	.03	5	0	0		0
20	.06	12	0	.03	5	0	0		0
21	.06	11	0	.02	4	0	0		0
22	.06	18	0	.02	4	0	0		0
23	.06	35	.01	.01	3	0	0		0
24	.06	33	.01	.01	3	0	0		0
25	.07	10	0	0	0	0	0		0
26	.07	5	0	0	0	0	0		0
27	.07	7	0	0	0	0	0		0
28	.07	15	0	0	0	0	0		0
29	.07	17	0	0	0	0	0		0
30	.07	20	0	0	0	0	0		0
31	.07	20	0	0	0	0	---		---
TOTAL	1.29	---	.19	1.36	---	.04	1.76	0	.65
YEAR	2111.19		2497.97						

11030500 SAN DIEGUITO RIVER NEAR DEL MAR, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR JANUARY TO SEPTEMBER 1984

MONTH	WATER DISCHARGE FT ³ /s-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
JANUARY 1984	1420.00	2117.00	1210	3330
FEBRUARY ...	605.00	358.80	62	421
MARCH	64.70	17.53	0	18
APRIL	10.15	2.05	0	2
MAY	4.84	1.10	0	1
JUNE	2.09	0.61	0	1
JULY	1.29	0.19	0	0
AUGUST	1.36	0.04	0	0
SEPTEMBER ..	1.76	0.65	0	1
TOTAL	2111.19	2497.97	1272	3774

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR JANUARY TO SEPTEMBER 1984

		STREAM FLOW, INSTAN- TANEOUS (FT ³ /s)	TEMPER- ATURE (DEG C)	SEDI- MENT SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER % FINER THAN .004 MM
JAN							
18...	0955	64	15.0	545	94	21	24
26...	1615	36	16.0	423	41	25	30
FEB							
17...	1050	20	15.0	126	7	--	--
19...	0830	23	9.0	159	10	--	--
MAR							
06...	1600	4	21.0	59	1	--	--
		SED. SUSP. FALL DIAM. % FINER % FINER THAN .0006 MM	SED. SUSP. FALL DIAM. % FINER % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER % FINER THAN .250 MM
DATE							
JAN							
18...		29	33	41	56	65	98
26...		36	44	50	73	92	99
FEB							
17...		--	--	--	78	93	99
19...		--	--	--	57	77	97
MAR							
06...		--	--	--	63	63	97

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR JANUARY TO SEPTEMBER 1984

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM FLOW, INSTAN- TANEOUS (FT ³ /s)	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
JAN										
10...	1000	16.0	3	54	45	71	91	98	99	100

ESCONDIDO CREEK BASIN

11030700 LAKE WOHLFORD NEAR ESCONDIDO, CA

LOCATION.--Lat 33°10'00", long 117°00'14", in NW 1/4 NE 1/4 sec.5, T.12 S., R.1 W., San Diego County, Hydrologic Unit 16070303, on face of Lake Wohlford Dam, 33C ft left of spillway, 3.9 mi southeast of Valley Center Post Office, and 5.7 mi northeast of Escondido.

DRAINAGE AREA.--7.96 mi².

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.--Nonrecording gage. Datum of gage is 1,385.0 ft National Geodetic Vertical Datum of 1929 (levels by city of Escondido Engineering Department); gage readings have been reduced to NGVD. Since October 1972, supplementary water-stage recorder for flood warning only, at same site at datum 15.0 ft higher.

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, elevation, 1,480.0 ft. Dead storage below lowest outlet, 131 acre-ft, elevation, 1,420 ft. 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 Escondido Mutual Water Company.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 7,140 acre-ft Feb. 21, 1960, elevation, 1,480.5 ft; minimum, 809 acre-ft Dec. 1, 1953, elevation, 1,437.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 6,600 acre-ft July 9-19, elevation, 1,478.4 ft; minimum observed, 2,490 acre-ft Dec. 5, elevation, 1,454.8 ft.

MONTHEND ELEVATION NGVD AND CONTENTS, AT 0700, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	1,477.5	6,400	--
Oct. 31.....	1,468.9	4,700	-1,700
Nov. 30.....	1,456.9	2,770	-1,930
Dec. 31.....	1,459.6	3,160	+390
CAL YR 1983.....	--	--	+980
Jan. 31.....	1,457.2	2,810	-350
Feb. 29.....	1,460.3	3,260	+450
Mar. 31.....	1,467.2	4,400	+1,140
Apr. 30.....	1,471.9	5,260	+860
May 31.....	1,473.6	5,600	+340
June 30.....	1,477.0	6,430	+830
July 31.....	1,477.6	6,430	--
Aug. 31.....	1,475.6	6,000	-430
Sept. 30.....	1,475.2	5,520	-480
WTF YR 1984.....	--	--	-450

SAN LUIS REY RIVER BASIN

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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, Hydrologic Unit 18070303, on left bank 60 ft upstream from bridge on State Highway 79, 1.2 mi upstream from Canada Verde Creek, and 1.2 mi northwest of Warner Springs. Prior to November 4, 1982, at site 60 ft downstream.

DRAINAGE AREA.--19.0 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 2,950 ft, from topographic map. Jan. 29, 1966 to Nov. 4, 1982 at site 60 ft downstream at same datum.

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

AVERAGE DISCHARGE.--23 years, 2.87 ft³/s, 2,080 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,440 ft³/s Feb. 21, 1980, gage height, 4.80 ft, from rating curve extended above 110 ft³/s on basis of slope-area measurement of maximum flow; maximum gage height, 5.36 ft Nov. 30, 1982; no flow for many days some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 50 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 25	1115	*209	4.13
Aug. 16	1730	105	3.88
Aug. 19	1700	159	4.01

Minimum daily discharge, 0.17 ft³/s, Sept. 28-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	1.5	2.5	5.2	2.1	2.0	2.3	1.2	.51	.30	.26	.26
2	2.8	1.6	2.5	4.5	2.1	2.1	1.9	1.2	.51	.30	.25	.26
3	1.8	1.4	5.0	4.2	2.1	2.0	1.3	1.1	.53	.30	.25	.25
4	1.5	1.2	11	4.0	2.0	2.5	1.2	.95	.52	.29	.23	.24
5	4.7	1.1	4.9	3.8	2.0	2.5	1.3	.85	.51	.29	.21	.23
6	2.5	1.1	4.0	3.9	2.0	2.2	1.7	1.1	.53	.32	.21	.21
7	2.7	1.1	3.5	3.6	2.0	1.9	1.8	.76	.50	.31	.21	.21
8	3.0	1.0	3.2	3.5	2.0	1.8	3.4	.70	.49	.33	.21	.21
9	2.5	.99	3.1	3.3	2.0	1.9	2.1	.69	.47	.34	.23	.23
10	1.8	.95	3.3	3.1	2.1	1.9	1.4	.68	.43	.35	.21	.22
11	1.4	.97	3.0	3.0	2.1	1.8	1.4	.68	.42	.34	.21	.24
12	1.2	2.5	2.8	2.9	3.9	1.8	1.3	.67	.43	.35	.21	.22
13	1.3	3.4	2.7	2.9	5.6	1.8	1.2	.67	.42	.32	.20	.21
14	1.3	2.1	2.6	3.3	2.8	2.0	1.1	.67	.41	.34	.23	.20
15	1.4	1.7	2.5	3.0	1.7	2.3	1.0	.69	.41	.33	.22	.19
16	1.5	1.5	2.5	3.0	1.7	2.4	1.0	.61	.39	.33	7.2	.19
17	1.5	1.4	2.5	3.1	1.7	2.4	1.0	.64	.38	.36	2.8	.19
18	1.6	1.6	2.5	2.9	1.6	2.4	1.0	.65	.38	.41	1.9	.18
19	1.3	1.5	2.5	2.9	1.5	2.4	1.7	.62	.38	.35	15	.25
20	1.1	2.2	2.2	2.8	1.5	2.2	1.9	.61	.37	.31	5.4	.25
21	1.0	5.9	2.0	2.7	1.5	2.2	1.4	.61	.37	.30	2.1	.21
22	1.0	3.2	2.0	2.7	1.5	2.2	1.2	.60	.37	.30	.85	.21
23	1.0	2.4	2.0	2.5	1.5	2.1	1.1	.60	.36	.28	.44	.20
24	1.0	2.1	2.2	2.4	1.5	2.2	1.1	.60	.36	.27	.34	.20
25	.90	6.0	67	2.3	1.5	2.2	1.1	.60	.36	.27	.29	.19
26	.86	3.9	30	2.3	1.5	2.4	1.3	.55	.35	.28	.28	.19
27	.91	3.1	19	2.2	1.6	2.1	1.3	.52	.34	.33	1.0	.18
28	1.0	2.8	13	2.1	1.6	1.8	3.3	.52	.34	.31	.56	.17
29	1.1	2.6	9.4	2.1	1.7	1.7	2.2	.52	.34	.29	.33	.17
30	1.2	2.5	7.6	2.1	---	1.7	1.4	.51	.30	.27	.28	.17
31	1.4	---	6.4	2.1	---	1.8	---	.51	---	.27	.27	---
TOTAL	50.47	65.31	229.4	94.4	58.4	64.7	46.4	21.88	12.48	9.74	42.38	6.33
MEAN	1.63	2.18	7.40	3.05	2.01	2.09	1.55	.71	.42	.31	1.37	.21
MAX	4.7	6.0	67	5.2	5.6	2.5	3.4	1.2	.53	.41	15	.26
MIN	.86	.95	2.0	2.1	1.5	1.7	1.0	.51	.30	.27	.20	.17
AC-FT	100	130	455	187	116	128	92	43	25	19	84	13
CAL YR 1983	TOTAL	4296.55	MEAN	11.8	MAX	257	MIN	.29	AC-FT	8520		
WTR YR 1984	TOTAL	701.89	MEAN	1.92	MAX	67	MIN	.17	AC-FT	1390		

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, Hydrologic Unit 18070303, on left bank 0.2 mi upstream from Fink Road, 2.6 mi upstream from mouth, and 7.5 mi west of Warner Springs.

DRAINAGE AREA.--25.5 mi².

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, from topographic map. Prior to Oct. 1, 1956, at different datum. Prior to Nov. 5, 1971, at site 500 ft downstream at same datum.

REMARKS.--Records good, except those periods below 1.0 ft³/s which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--29 years (water years 1914-15, 1957-84), 10.5 ft³/s, 7,610 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,200 ft³/s Feb. 21, 1980, gage height, 15.60 ft, from floodmarks, from rating curve extended above 130 ft³/s on basis of slope-area measurement of maximum flow; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 799 ft³/s Dec. 25, gage height, 12.99 ft, no other peak above base of 300 ft³/s; minimum daily discharge, 0.09 ft³/s Sept. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	1.6	7.2	19	5.8	3.4	4.2	2.3	.42	.28	.18	.17
2	5.4	1.9	7.4	16	6.0	3.6	4.3	2.1	.40	.28	.17	.18
3	3.1	1.8	17	14	6.0	3.6	3.9	1.8	.36	.27	.18	.19
4	2.5	1.5	34	13	6.0	3.4	3.5	1.5	.36	.26	.16	.18
5	2.3	1.3	15	12	6.0	3.4	3.1	1.4	.40	.26	.16	.17
6	2.2	1.5	12	12	6.0	3.1	4.7	1.4	.40	.27	.16	.17
7	2.7	1.5	9.7	11	5.4	2.9	5.3	1.3	.44	.26	.15	.17
8	2.9	1.6	8.6	11	5.2	3.6	4.1	1.1	.44	.27	.15	.18
9	2.7	1.5	8.9	10	5.4	3.4	3.7	.94	.40	.26	.15	.19
10	2.4	1.4	16	9.7	5.6	3.4	3.3	.89	.40	.24	.14	.20
11	2.1	1.5	10	9.3	5.7	3.5	2.7	.84	.40	.23	.14	.21
12	1.8	18	8.8	8.7	5.7	3.5	2.8	.79	.40	.22	.14	.20
13	1.7	23	7.8	8.5	5.6	3.0	2.5	.65	.38	.23	.13	.18
14	1.6	8.7	7.4	12	4.9	3.0	2.1	.59	.35	.25	.18	.17
15	1.7	6.1	7.0	9.9	4.7	3.8	1.9	.56	.35	.25	.18	.17
16	1.7	5.3	6.6	9.5	4.8	3.7	1.9	.73	.34	.23	.16	.16
17	1.8	4.7	6.4	11	5.5	3.1	1.6	.68	.34	.24	.46	.14
18	2.0	5.8	6.3	9.1	5.2	3.0	1.9	.64	.34	.26	.68	.14
19	1.9	5.7	6.3	8.5	4.9	3.0	2.7	.59	.34	.23	1.2	.16
20	1.8	17	6.3	8.3	4.6	2.5	3.7	.53	.31	.22	.49	.16
21	1.6	28	6.3	8.1	4.3	2.4	2.9	.53	.31	.20	.31	.15
22	1.5	12	6.2	8.1	4.3	2.4	2.5	.52	.31	.21	.23	.14
23	1.4	9.1	6.0	7.7	4.3	2.2	2.0	.50	.31	.20	.16	.14
24	1.3	7.8	7.4	7.3	4.2	2.3	1.8	.48	.31	.19	.14	.14
25	1.2	35	292	7.0	4.0	2.7	1.7	.47	.30	.17	.15	.12
26	1.1	15	137	7.0	3.8	3.1	2.1	.45	.29	.19	.15	.12
27	1.1	11	89	6.7	3.8	3.6	2.2	.43	.28	.23	.16	.11
28	1.1	9.1	51	6.6	3.6	3.2	2.8	.42	.29	.31	.17	.10
29	1.1	8.2	33	6.3	3.5	2.8	3.0	.42	.29	.24	.17	.09
30	1.2	7.5	26	6.3	---	2.8	2.7	.40	.29	.19	.17	.09
31	1.4	---	23	6.3	---	3.0	---	.41	---	.19	.17	---
TOTAL	61.4	254.1	885.6	299.9	144.8	96.4	87.8	26.36	10.55	7.33	7.34	4.69
MEAN	1.98	8.47	28.6	9.67	4.99	3.11	2.93	.85	.35	.24	.24	.16
MAX	5.4	35	292	19	6.0	3.8	5.3	2.3	.44	.31	1.2	.21
MIN	1.1	1.3	6.0	6.3	3.5	2.2	1.7	.40	.28	.17	.13	.09
AC-FT	122	504	1760	595	287	191	174	52	21	15	15	9.3

CAL YR 1983 TOTAL 13294.78 MEAN 36.4 MAX 444 MIN .60 AC-FT 26370
WTR YR 1984 TOTAL 1886.27 MEAN 5.15 MAX 292 MIN .09 AC-FT 3740

11040000 SAN LUIS REY RIVER AT MONSERATE NARROWS, NEAR PALA, CA

LOCATION.--Lat 33°20'14", long 117°08'07", in SW 1/4 SE 1/4 NW 1/4 sec.6, T.10 S., R.2 W., San Diego County, Hydrologic Unit 18070303, on left bank 4 mi southwest of Pala, 6 mi northeast of Bonsall, and 27 mi downstream from Lake Henshaw.

DRAINAGE AREA.--373 mi².

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 National Geodetic Vertical Datum of 1929 (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 higher.

REMARKS.--Records fair. Flow regulated by Lake Henshaw since 1923, capacity, 194,300 acre-ft. Several diversions above station.

AVERAGE DISCHARGE.--41 years (water years 1939-41, 1947-84), 19.0 ft³/s, 13,770 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge since 1938, 15,500 ft³/s Feb. 21, 1980, gage height, 9.68 ft, on basis of slope-area measurement of maximum flow; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 604 ft³/s Dec. 25, gage height, 5.44 ft; minimum daily, no flow Aug. 12 to Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	9.4	40	75	24	13	11	8.6	2.8	.79	.56	
2	15	11	39	69	23	13	11	7.7	2.5	.88	.47	
3	11	9.7	39	63	24	13	11	6.6	2.5	.92	.48	
4	11	9.6	54	59	22	12	10	6.9	2.1	.87	.35	
5	9.1	9.6	46	58	23	12	9.5	6.5	2.2	.74	.25	
6	8.1	9.5	39	48	21	12	10	6.0	2.4	1.0	.20	
7	12	11	39	44	21	11	11	6.1	1.9	.88	.17	
8	13	11	39	42	21	10	11	6.1	1.4	.78	.10	
9	13	10	37	39	20	11	12	6.6	1.3	.90	.10	
10	14	10	37	39	20	10	12	5.8	.67	.76	.08	
11	12	11	36	38	19	11	11	6.0	1.2	.82	.05	
12	11	21	35	36	20	11	11	5.3	1.4	.82	0	
13	9.6	37	32	36	20	11	10	5.3	.91	.86	0	
14	11	31	34	37	20	10	9.5	4.9	.87	.69	0	
15	9.3	25	34	35	20	11	9.3	4.7	.88	.82	0	
16	12	24	35	35	20	9.9	8.6	4.6	.99	.91	0	
17	14	23	36	36	19	10	9.6	4.4	.89	.85	0	
18	13	26	37	34	19	10	9.5	4.0	.92	.84	0	
19	13	27	36	33	18	12	8.3	3.9	.97	.67	0	
20	12	34	37	32	17	12	8.3	4.0	1.0	.66	0	
21	11	60	36	32	18	11	6.9	4.1	.96	.68	0	
22	11	47	35	31	18	11	7.2	3.9	.94	.86	0	
23	10	38	37	31	17	9.7	7.2	3.3	.90	.74	0	
24	11	36	41	29	17	9.8	6.9	3.8	.86	.73	0	
25	10	73	320	29	18	10	7.4	3.9	.94	.77	0	
26	9.6	60	299	28	16	11	7.6	3.6	.92	.70	0	
27	9.2	47	243	26	17	11	7.8	3.4	.90	.73	0	
28	9.1	43	166	26	15	11	7.5	2.6	.89	.62	0	
29	8.6	43	115	25	14	11	6.9	2.7	.94	.68	0	
30	8.8	42	96	25	---	10	7.6	2.2	.66	.66	0	
31	10	---	86	24	---	9.7	---	2.4	---	.57	0	
TOTAL	342.4	848.8	2235	1194	561	340.1	276.6	149.9	39.11	24.20	2.81	0
MEAN	11.0	28.3	72.1	38.5	19.3	11.0	9.22	4.84	1.30	.78	.091	0
MAX	15	73	320	75	24	13	12	8.6	2.8	1.0	.56	0
MIN	8.1	9.4	32	24	14	9.7	6.9	2.2	.86	.57	0	0
AC-FT	679	1680	4430	2370	1110	675	549	297	78	48	5.6	0
WTR YR 1983	TOTAL 31477.20	MEAN 86.2	MAX 950	MIN 4.7	AC-FT 62440							
WTR YR 1984	TOTAL 6013.92	MEAN 16.4	MAX 320	MIN 0	AC-FT 11930							

SAN LUIS REY BASIN

11040700 SAN LUIS REY RIVER BELOW MOOSA CANYON, NEAR BONSAILL, CA

LOCATION.--Lat 33°16'35", long 117°13'30", in NW 1/4 SW 1/4, sec.29, T.10 S., R.3 W., San Diego County, Hydrologic Unit 18070303, on left bank 0.6 mi downstream from Moosa Canyon, and 0.9 mi south of Bonsall.

DRAINAGE AREA.--499 mi².

PERIOD OF RECORD.--October 1983 to September 1984. Station operated October 1916 to September 1979, at site 2.1 mi downstream and published as "near Bonsall".

GAGE.--Water-stage recorder. Altitude of gage is 120 ft, from topographic map.

REMARKS.--Records good. Flow regulated by Lake Henshaw, capacity, 194,300 acre-ft since 1923. Several diversions for irrigation and domestic use above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,060 ft³/s Dec. 25, gage height, 5.86 ft; minimum daily, 2.6 ft³/s Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	21	71	115	72	42	27	19	11	7.0	7.4	4.6
2	35	23	64	105	73	43	26	21	13	7.4	6.4	4.0
3	30	21	75	99	71	46	25	21	13	9.7	6.2	4.2
4	27	21	87	100	71	43	26	19	12	10	6.7	3.9
5	23	21	71	104	70	41	25	18	14	8.7	8.6	4.7
6	20	24	60	99	66	41	30	18	15	8.9	7.3	5.1
7	28	24	58	103	65	41	29	16	17	9.8	7.4	4.3
8	35	23	58	104	63	36	26	15	14	8.6	7.4	3.7
9	32	22	60	98	63	34	25	14	14	5.1	7.4	2.6
10	30	28	61	95	66	35	26	14	12	6.3	6.6	3.4
11	29	40	58	93	59	38	23	14	15	5.7	6.6	5.6
12	27	77	60	92	57	38	23	15	15	5.7	6.2	5.9
13	25	89	57	92	58	37	23	13	15	6.7	5.6	7.8
14	24	67	55	106	60	37	20	15	14	4.7	6.0	6.5
15	23	59	57	90	56	39	19	18	14	5.4	6.0	5.4
16	27	56	55	89	54	38	20	16	13	6.5	4.7	5.7
17	33	56	56	99	52	37	20	15	12	4.7	4.2	5.3
18	31	58	58	93	53	37	18	15	12	6.5	5.4	4.1
19	29	55	56	88	52	36	28	15	12	6.6	7.3	4.0
20	28	79	57	88	47	31	24	15	13	5.4	5.3	4.7
21	26	98	55	85	48	34	24	13	13	5.8	2.7	5.3
22	26	72	57	83	46	35	22	17	9.8	7.7	3.2	4.7
23	25	62	58	85	51	33	20	14	9.8	8.8	3.5	4.7
24	26	61	72	85	51	31	21	14	11	8.8	4.2	3.9
25	25	166	462	87	51	30	20	15	11	9.0	4.9	4.1
26	23	89	394	79	46	30	19	13	8.8	8.7	4.7	5.2
27	22	67	327	75	48	31	18	14	7.8	7.0	4.6	5.8
28	21	62	222	74	48	30	21	13	7.9	6.2	4.0	4.0
29	20	63	150	78	44	31	20	12	9.2	6.8	4.4	4.9
30	19	64	129	79	---	27	18	11	9.3	6.2	3.7	5.1
31	22	---	121	77	---	28	---	10	---	6.9	3.6	---
TOTAL	819	1668	3281	2839	1661	1110	686	472	367.6	221.3	172.2	143.2
MEAN	26.4	55.6	106	91.6	57.3	35.8	22.9	15.2	12.3	7.14	5.55	4.77
MAX	35	166	462	115	73	46	30	21	17	10	8.6	7.8
MIN	19	21	55	74	44	27	18	10	7.8	4.7	2.7	2.6
AC-FT	1620	3310	6510	5630	3290	2200	1360	936	729	439	342	284

WTR YR 1984 TOTAL 13440.3 MEAN 36.7 MAX 462 MIN 2.6 AC-FT 26660

11042000 SAN LUIS REY RIVER AT OCEANSIDE, CA
(National stream-quality accounting network station)

LOCATION.--Lat 33°13'05", long 117°22'34", in SW 1/4 SE 1/4 SW 1/4 sec.13, T.11 S., R.5 W., San Diego County, Hydrologic Unit 18070303, on right bank 1.9 mi upstream from bridge on Interstate Highway 5, 2.4 mi upstream from mouth, and 1.9 mi northeast of Oceanside.

DRAINAGE AREA.--557 mi².

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, from topographic map. April 1912 to September 1914, nonrecording gage at site 0.4 mi downstream at different datum. January 1916, nonrecording gage 1.4 mi downstream at different datum. Prior to Oct. 1, 1978, at datum 10.00 ft lower. Prior to Nov. 9, 1981, at site 0.8 mi downstream.

REMARKS.--Records fair. Flow regulated by Lake Henshaw, capacity, 194,300 acre-ft since 1923. 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.--52 years (water years 1913-14, 1930-41, 1947-84), 35.1 ft³/s, 25,430 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 95,600 ft³/s Jan. 27, 1916, from hydrograph based on discharge measurements; no flow for several months in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,130 ft³/s Dec. 25, gage height, 13.25 ft; minimum daily, 0.51 ft³/s Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	251	26	94	130	78	57	28	26	13	8.6	2.5	.79
2	211	30	80	109	74	57	28	27	13	8.6	2.9	.95
3	93	27	84	97	72	57	26	30	14	8.1	3.7	.52
4	53	26	105	106	72	57	29	28	14	8.3	3.6	.72
5	40	26	86	120	72	55	28	29	14	8.3	2.5	.51
6	39	29	80	120	72	55	45	27	17	8.3	2.6	.88
7	47	31	76	122	70	50	39	26	20	8.3	2.6	.88
8	61	29	72	117	66	45	32	24	17	8.3	2.3	.65
9	44	28	72	112	65	45	29	22	17	8.3	2.1	.60
10	43	29	76	107	68	45	22	19	13	7.1	1.7	.76
11	45	32	72	104	67	45	22	16	13	7.0	1.5	.99
12	55	249	68	104	65	45	20	15	12	7.0	1.5	1.2
13	44	405	66	104	65	47	20	16	12	5.1	1.5	1.5
14	41	239	66	108	66	45	17	15	10	3.7	1.2	1.9
15	39	158	66	104	64	45	16	16	8.8	2.6	1.2	2.0
16	38	110	66	103	62	41	16	14	7.8	2.3	1.0	1.8
17	43	98	66	112	60	43	16	13	8.1	2.5	1.2	2.3
18	48	109	64	107	62	44	14	13	8.5	2.3	1.4	2.1
19	46	84	64	101	62	40	26	12	8.5	2.2	1.5	3.0
20	49	173	62	99	56	38	28	13	8.0	2.3	2.6	3.7
21	49	366	64	98	56	37	23	13	8.0	3.1	3.1	4.4
22	46	222	65	95	56	38	18	13	7.3	2.6	2.3	4.1
23	41	80	70	94	55	34	20	12	7.6	2.4	1.9	3.9
24	39	78	80	91	55	34	16	12	8.3	2.6	1.6	3.8
25	33	875	1590	91	54	34	19	13	9.0	2.8	1.5	3.6
26	28	268	783	89	52	32	16	14	9.5	2.6	1.5	4.2
27	25	134	513	84	52	39	22	14	9.0	2.2	1.3	3.7
28	25	128	357	80	50	35	27	15	8.6	3.0	1.1	3.8
29	24	124	241	79	52	33	21	14	8.3	3.8	.95	4.0
30	25	112	182	76	---	29	24	14	8.3	4.1	.97	3.9
31	27	---	155	76	---	24	---	14	---	4.6	.91	---
TOTAL	1692	4325	5585	3139	1820	1325	707	549	332.6	153.0	58.23	67.15
MEAN	54.6	144	180	101	62.8	42.7	23.6	17.7	11.1	4.94	1.88	2.24
MAX	251	875	1590	130	78	57	45	30	20	8.6	3.7	4.4
MIN	24	26	62	76	50	24	14	12	7.3	2.2	.91	.51
AC-FT	3360	8580	11080	6230	3610	2630	1400	1090	660	303	115	133
CAL YR 1983	TOTAL	77806	MEAN	213	MAX	5380	MIN	11	AC-FT	154300		
WTR YR 1984	TOTAL	19752.98	MEAN	54.0	MAX	1590	MIN	.51	AC-FT	39180		

11042000 SAN LUIS REY RIVER AT OCEANSIDE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969 to current year.

CHEMICAL ANALYSES: Water years 1978 to current year.

BIOLOGICAL DATA: Water years 1978 to September 1981.

SPECIFIC CONDUCTANCE: Water years 1978 to current year.

WATER TEMPERATURES: Water years 1971 to current year.

SEDIMENT RECORDS: Water years 1969 to current year.

PERIOD OF DAILY RECORD.--

SEDIMENT RECORDS: October 1968 to September 1978, December 1983 to September 1984 (discontinued).

REMARKS.--Sediment discharge values were estimated for those days that have no daily concentration values.
Sediment data affected by channel work near gage.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 5,580 mg/L, Jan. 17, 1978; minimum daily mean, 2 mg/L on several days in 1972 and 1977.

SEDIMENT DISCHARGE: Maximum daily, 59,700 tons, Jan. 17, 1978; minimum daily, 0.01 ton, Nov. 4, 1969.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, unknown Dec. 25; minimum daily mean, 3.0 mg/L, Sept. 20.

SEDIMENT DISCHARGE: Maximum daily, 24,600 tons (estimated), Dec. 25; minimum daily, 0.02 ton, Sept. 5, 8-10.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV , 1983											
29...	1400	116	1580	8.2	15.5	760	90	10.0	101	860	5600
JAN , 1984											
17...	1300	103	1640	8.2	16.0	760	60	10.2	104	680	570
MAR											
28...	1300	36	1880	8.4	25.5	760	28	10.4	128	250	290
MAY											
25...	1300	15	2190	8.5	28.0	755	1.9	11.6	150	290	1300
JUL											
26...	1200	2.6	2890	8.3	29.0	755	2.9	14.3	189	210	1500
SEP											
12...	1300	1.4	2960	8.0	29.5	755	3.2	9.2	123	K75	600

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV , 1983											
29...	510	310	110	57	130	35	3	6.2	199	240	240
JAN , 1984											
17...	510	300	110	56	140	37	3	5.7	207	280	240
MAR											
28...	620	400	140	66	160	36	3	7.0	224	360	290
MAY											
25...	730	530	160	79	220	39	4	7.8	193	440	390
JUL											
26...	750	540	160	84	320	48	5	11	207	480	580
SEP											
12...	890	650	190	100	330	44	5	11	242	480	580

See footnotes at end of table.

SAN LUIS REY RIVER BASIN

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11042000 SAN LUIS REY RIVER AT OCEANSIDE, CA--Continued
 WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
NOV , 1983											
29...	.3	31	1020	930	1.4	2.0	.05	1.8	.14	.12	.13
JAN , 1984											
17...	.4	29	990	990	1.3	2.1	.03	1.5	.25	.12	.12
MAR											
28...	.4	29	1260	1200	1.7	2.1	.01	1.0	.22	.14	.16
MAY											
25...	.4	27	1460	1400	2.0	1.7	.03	1.1	.14	.08	.05
JUL											
26...	.4	22	1860	1800	2.5	<.10	.07	.50	.13	.12	.12
SEP											
12...	.5	30	1900	1900	2.6	<.10	.08	.80	.08	.07	.07

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
NOV , 1983										
29...	1400	<10	1	96	<.5	<1	<1	<3	1	8
MAR , 1984										
28...	1300	<10	<1	100	.6	<1	<1	<3	3	<3
MAY										
25...	1300	<10	<1	200	<10	2	<1	1	1	110
SEP										
12...	1300	10	1	<100	<10	4	<1	<1	1	50

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV , 1983											
29...	2	17	28	<.1	10	5	1	<1	530	8	32
MAR , 1984											
28...	<1	17	34	<.1	10	1	1	<1	640	9	37
MAY											
25...	<1	10	40	.2	--	3	<1	2	920	17	<10
SEP											
12...	3	<10	30	<.1	10	4	<1	<1	1000	9	<10

K Results based on colony count outside the acceptable range (non-ideal colony count).
 < Actual value is known to be less than the value shown.

SAN LUIS REY RIVER BASIN

11042000 SAN LUIS REY RIVER AT OCEANSIDE, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR DECEMBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			14.0	15.0	---	20.0	---	---	19.0	---	23.0	---
2			---	10.5	---	11.0	---	---	19.0	---	22.0	22.0
3			---	9.0	14.5	12.0	---	---	18.0	---	23.0	23.0
4			---	15.0	12.5	11.0	---	---	19.0	---	22.0	22.0
5			---	15.0	11.0	---	14.0	---	---	---	22.0	23.0
6			15.0	20.0	20.0	22.0	15.0	---	18.0	---	20.0	22.0
7			13.0	14.0	20.0	---	14.0	---	---	---	21.0	24.0
8			14.5	14.5	14.0	---	14.0	---	---	---	22.0	24.0
9			11.0	14.5	10.0	24.0	15.0	---	---	---	22.0	23.0
10			11.0	11.0	20.0	---	13.0	---	---	---	20.0	26.0
11			14.0	18.0	16.5	17.5	16.0	---	---	---	21.0	24.0
12			13.0	15.0	17.0	---	13.0	---	---	21.0	21.0	29.5
13			12.0	18.0	16.0	---	14.0	---	---	---	21.0	24.0
14			9.5	13.0	---	---	14.0	---	---	---	22.0	24.0
15			10.0	10.0	19.0	18.0	---	26.0	---	---	24.0	27.0
16			14.0	14.0	19.0	---	---	26.0	---	27.0	22.0	24.0
17			15.0	16.0	---	---	17.0	15.0	---	22.0	24.0	24.0
18			17.0	15.0	17.0	---	15.0	15.0	16.0	22.0	24.0	23.0
19			12.0	16.0	17.0	---	---	20.0	---	---	---	23.0
20			13.5	16.0	14.0	11.0	---	17.0	---	21.0	23.0	23.0
21			11.5	12.0	14.0	11.0	---	17.0	---	---	23.0	23.0
22			11.0	16.0	20.0	13.0	---	18.0	---	22.0	24.0	---
23			13.0	11.0	20.0	12.0	---	18.0	---	22.0	24.0	22.0
24			16.0	17.5	20.0	11.0	---	19.0	---	19.0	23.0	21.0
25			15.5	18.0	18.0	---	---	19.0	---	20.0	23.0	19.0
26			16.0	12.0	---	18.0	---	18.0	---	20.0	---	20.0
27			15.5	18.5	15.0	---	---	18.0	---	23.0	21.0	21.0
28			17.0	19.0	15.5	22.0	---	16.0	---	23.0	23.0	21.0
29			16.0	19.0	9.5	12.5	---	18.0	---	27.0	23.0	22.0
30			16.5	10.0	---	9.5	---	19.0	---	24.0	23.0	22.0
31			13.0	10.0	---	---	---	20.0	---	24.0	23.0	---
MONTH			---	---	---	---	---	---	---	---	---	---

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), DECEMBER 1983 TO SEPTEMBER 1984

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1							94	174	44
2							80	113	24
3							84	250	57
4							105	300	85
5							86	245	57
6							80	185	40
7							76	138	28
8							72	132	26
9							72	320	62
10							76	540	111
11							72	295	57
12							68	265	49
13							66	386	69
14							66	330	59
15							66	194	35
16							66	250	45
17							66	240	43
18							64	222	38
19							64	155	27
20							62	0	40
21							64	0	44
22							65	0	46
23							70	0	54
24							80	0	78
25							1590	0	19000
26							783	2180	5720
27							513	1760	2440
28							357	1770	1710
29							241	1340	872
30							182	1000	491
31							155	810	339
TOTAL							5585	---	31790

11042000

11042000 SAN LUIS REY RIVER AT OCEANSIDE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), DECEMBER 1983 TO SEPTEMBER 1984

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	130	735	258	78	266	56	57	310	48
2	109	650	191	74	361	72	57	85	13
3	97	630	165	72	471	92	57	135	21
4	106	695	199	72	532	103	57	165	25
5	120	605	196	72	545	106	55	140	21
6	120	355	115	72	576	112	55	120	18
7	122	220	72	70	706	133	50	105	14
8	117	150	47	66	512	91	45	100	12
9	112	141	43	65	346	61	45	100	12
10	107	149	43	68	623	114	45	125	15
11	104	173	49	67	341	62	45	155	19
12	104	172	48	65	290	51	45	150	18
13	104	210	59	65	140	25	47	140	18
14	108	220	64	66	110	20	45	125	15
15	104	173	49	64	210	36	45	115	14
16	103	148	41	62	320	54	41	115	13
17	112	162	49	60	225	36	43	115	13
18	107	161	47	62	360	60	44	115	14
19	101	135	37	62	325	54	40	395	43
20	99	135	36	56	470	71	38	1360	140
21	98	130	34	56	600	91	37	1570	157
22	95	128	33	56	675	102	38	1470	151
23	94	144	37	55	700	104	34	1320	121
24	91	144	35	55	680	101	34	1200	110
25	91	205	50	54	460	67	34	820	75
26	89	475	114	52	900	126	32	225	19
27	64	339	77	52	630	88	39	110	12
28	80	194	42	50	625	84	35	125	12
29	79	180	38	52	250	35	33	175	16
30	76	142	29	---	---	---	29	160	13
31	76	184	38	---	---	---	24	215	14
TOTAL	3139	---	2335	1820	---	2207	1325	---	1206
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	28	450	34	26	39	2.7	13	14	.49
2	28	930	70	27	34	2.5	13	18	.63
3	26	1250	88	30	28	2.3	14	17	.64
4	29	1420	111	28	24	1.8	14	16	.60
5	28	1480	112	29	30	2.3	14	34	1.3
6	45	1660	202	27	25	1.8	17	35	1.6
7	39	1530	161	26	17	1.2	20	36	1.9
8	32	1750	151	24	16	1.0	17	37	1.7
9	29	1530	120	22	19	1.1	17	37	1.7
10	22	1430	85	19	28	1.4	13	38	1.3
11	22	965	57	16	11	.48	13	35	1.2
12	20	140	7.6	15	9	.36	12	32	1.0
13	20	103	5.6	16	12	.52	12	44	1.4
14	17	222	10	15	6	.24	10	26	.70
15	16	230	9.9	16	21	.91	8.8	23	.55
16	16	162	7.0	14	45	1.7	7.8	20	.42
17	16	66	2.9	13	35	1.2	8.1	19	.42
18	14	30	1.1	13	16	.56	8.5	19	.44
19	26	130	9.1	12	8	.26	8.5	41	.94
20	28	109	8.2	13	14	.49	8.0	238	5.1
21	23	60	3.7	13	6	.21	8.0	163	3.5
22	18	63	3.1	13	8	.28	7.3	195	3.8
23	20	50	2.7	12	6	.19	7.6	490	10
24	16	40	1.7	12	12	.39	8.3	388	8.7
25	19	43	2.2	13	50	1.7	9.0	290	7.0
26	16	32	1.4	14	59	2.2	9.5	198	5.1
27	22	76	4.5	14	130	4.9	9.0	138	3.4
28	27	62	4.5	15	120	4.9	8.6	23	.53
29	21	49	2.8	14	53	2.0	8.3	34	.76
30	24	43	2.8	14	56	2.1	8.3	64	1.4
31	---	---	---	14	19	.72	---	---	---
TOTAL	707	---	1281.8	549	---	44.41	332.6	---	68.22

SAN LUIS REY RIVER BASIN

11042000 SAN LUIS REY RIVER AT OCEANSIDE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), DECEMBER 1983 TO SEPTEMBER 1984

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	8.6	101	2.3	2.5	55	.37	.79	21	.04
2	8.6	123	2.9	2.9	101	.79	.95	33	.08
3	8.1	30	.66	3.7	41	.41	.52	22	.03
4	8.3	41	.92	3.6	46	.45	.72	20	.04
5	8.3	109	2.4	2.5	56	.38	.51	11	.02
6	8.3	133	3.0	2.6	49	.34	.88	16	.04
7	8.3	33	.74	2.6	60	.42	.88	12	.03
8	8.3	36	.81	2.3	65	.40	.65	9	.02
9	8.3	33	.74	2.1	71	.40	.60	12	.02
10	7.1	40	.77	1.7	63	.29	.76	10	.02
11	7.0	49	.93	1.5	57	.23	.99	39	.10
12	7.0	54	1.0	1.5	99	.40	1.2	46	.15
13	5.1	55	.76	1.5	82	.33	1.5	22	.09
14	3.7	55	.55	1.2	58	.19	1.9	44	.23
15	2.6	55	.39	1.2	34	.11	2.0	31	.17
16	2.3	52	.32	1.0	63	.17	1.8	16	.08
17	2.5	44	.30	1.2	80	.26	2.3	8	.05
18	2.3	56	.35	1.4	60	.23	2.1	23	.13
19	2.2	51	.30	1.5	50	.20	3.0	21	.17
20	2.3	22	.14	2.6	58	.41	3.7	3	.03
21	3.1	6	.05	3.1	27	.23	4.4	13	.15
22	2.6	26	.18	2.3	44	.27	4.1	13	.14
23	2.4	32	.21	1.9	23	.12	3.9	6	.06
24	2.6	41	.29	1.6	16	.07	3.8	10	.10
25	2.8	33	.25	1.5	7	.03	3.6	16	.16
26	2.6	39	.27	1.5	13	.05	4.2	11	.12
27	2.2	59	.35	1.3	37	.13	3.7	10	.10
28	3.0	91	.74	1.1	40	.12	3.8	10	.10
29	3.8	97	1.0	.95	30	.08	4.0	6	.06
30	4.1	24	.27	.97	27	.07	3.9	7	.07
31	4.6	30	.37	.91	21	.05	---	---	---
TOTAL	153.0	---	24.26	58.23	---	8.00	67.15	---	2.60
YEAR 19752.98			38967.29						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR DECEMBER 1983 TO SEPTEMBER 1984

MONTH	WATER DISCHARGE FT ³ /s-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
DECEMBER 1983	5585.00	37388.00	21533	58921
JANUARY 1984	3139.00	2335.00	1470	3610
FEBRUARY ...	1768.00	2172.00	559	2730
MARCH	1325.00	1206.00	292	1500
APRIL	707.00	1281.80	81	1360
MAY	549.00	44.41	34	76
JUNE	332.60	68.22	5	73
JULY	153.00	24.26	0	24
AUGUST	58.23	8.00	0	8
SEPTEMBER ..	67.15	2.60	0	3
TOTAL	19700.98	44530.29	23974	68530

11042000 SAN LUIS REY RIVER AT OCEANSIDE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR DECEMBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /s)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM
DEC										
01...	1050	96	14.0	366	95	30	37	44	50	55
26...	1415	548	16.0	1770	2619	26	30	35	42	48
JAN										
17...	1300	112	16.0	142	43	--	--	--	--	--
MAR										
28...	1300	38	25.5	76	7.8	--	--	--	--	--
APR										
19...	1500	32	23.0	119	10	--	--	--	--	--
MAY										
25...	1300	15	28.0	68	2.8	--	--	--	--	--
JUL										
26...	1200	2.7	29.0	34	.25	--	--	--	--	--
SEP										
12...	1300	1.3	29.5	47	.16	--	--	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM
DEC								
01...	59	--	73	--	94	--	100	--
26...	55	--	74	--	96	--	100	--
JAN								
17...	--	100	--	--	--	--	--	--
MAR								
28...	--	91	--	--	--	--	--	--
APR								
19...	--	100	--	--	--	--	--	--
MAY								
25...	--	70	--	88	--	57	--	100
JUL								
27...	--	40	--	--	--	--	--	--
SEP								
12...	--	37	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR DECEMBER 1983 TO SEPTEMBER 1984

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM FLOW, INSTAN- TANEOUS FT ³ /s	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
JAN										
10...	1200	16.5	3	108	5	12	47	88	99	100

SANTA MARGARITA RIVER BASIN

11042400 TEMECULA CREEK NEAR AGUANGA, CA

LOCATION.--Lat 33°27'33", long 116°55'22", in NE 1/4 SW 1/4 sec.19, T.8 S., R.1 E., Riverside County, Hydrologic Unit 18070302, on right bank 1.6 mi downstream from Long Canyon, and 3.5 mi northwest of Aguanga.

DRAINAGE AREA.--131 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 1,590 ft, from topographic map.

REMARKS.--Records good. No regulation above station. Pumping for irrigation above station.

AVERAGE DISCHARGE.--27 years, 7.25 ft³/s, 5,250 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,540 ft³/s Apr. 3, 1958, gage height, 6.57 ft, from rating curve extended above 1,200 ft³/s; maximum gage height, 12.0 ft, from floodmarks, Feb. 21, 1980; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 415 ft³/s Dec. 25, gage height, 3.56 ft, no other peak above base of 100 ft³/s; minimum daily, 2.2 ft³/s Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1963 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	8.1	10	18	8.3	6.5	6.2	5.5	3.4	2.7	3.8	2.4
2	13	8.0	9.9	16	8.3	6.5	5.9	5.4	3.4	2.7	3.3	2.7
3	9.1	7.8	11	15	8.1	6.5	5.3	5.4	3.9	2.7	3.2	2.7
4	6.6	7.5	19	14	8.1	6.1	5.1	5.1	4.2	2.7	3.2	2.8
5	7.5	7.6	13	14	8.1	5.8	5.1	4.9	4.0	2.8	3.3	2.7
6	8.2	7.7	12	13	7.9	5.9	5.6	4.8	4.1	2.8	3.2	2.6
7	8.5	7.8	11	12	7.8	6.0	5.7	4.7	4.0	2.7	3.0	2.6
8	9.0	7.6	11	12	7.7	6.0	5.1	4.6	4.1	2.9	2.7	2.7
9	9.1	7.5	10	12	7.7	6.0	4.9	4.6	3.8	2.6	2.8	2.9
10	8.9	7.3	11	11	7.7	6.0	4.7	4.5	3.4	2.7	2.9	3.0
11	8.2	7.5	10	11	7.9	5.9	4.4	4.5	3.2	2.7	2.9	3.5
12	7.7	12	10	11	7.7	5.8	4.2	4.3	3.4	2.5	2.9	3.4
13	7.3	14	9.7	11	7.5	5.5	3.9	4.9	3.8	2.7	2.7	3.2
14	7.5	11	9.7	11	7.6	5.5	3.7	5.0	3.6	4.0	2.9	3.0
15	7.8	10	9.7	10	7.6	5.7	3.8	5.0	3.8	4.1	3.0	3.0
16	8.1	9.5	9.4	10	7.3	5.7	3.9	5.2	3.7	4.2	3.0	3.0
17	8.2	9.4	9.4	10	7.5	5.6	3.8	5.4	3.5	3.3	3.2	3.0
18	8.0	9.6	9.4	9.6	7.4	5.5	3.9	5.1	3.5	3.3	3.8	2.9
19	7.4	9.5	9.4	9.5	7.4	5.4	4.3	5.3	2.9	3.3	4.4	9.4
20	7.1	12	9.4	9.4	7.4	5.3	4.6	5.5	2.6	3.2	4.2	5.5
21	6.8	19	9.3	9.3	7.4	5.2	4.4	5.6	3.0	3.2	4.1	3.6
22	6.7	13	9.3	9.1	7.4	5.0	4.2	5.5	3.3	3.7	4.9	3.7
23	6.7	11	9.1	9.0	7.2	4.9	4.0	5.3	3.0	3.6	3.3	3.9
24	6.7	10	10	9.0	7.2	5.0	4.0	5.0	2.9	3.3	3.5	3.9
25	6.7	24	167	8.8	7.3	5.1	4.2	4.4	3.2	3.1	3.7	3.6
26	6.8	15	95	8.7	7.1	5.5	4.6	4.2	3.1	3.2	3.5	3.6
27	7.1	13	50	8.4	7.0	5.5	5.3	4.0	3.1	4.0	2.9	3.5
28	7.1	11	35	8.3	7.0	5.5	6.1	4.0	3.0	4.0	2.8	3.0
29	7.3	11	27	8.3	6.9	5.1	5.5	3.6	3.0	4.1	2.8	2.9
30	7.4	10	23	8.2	---	4.8	5.5	3.4	2.8	3.9	2.7	2.9
31	7.7	---	20	8.2	---	5.4	---	3.6	---	3.9	2.2	---
TOTAL	246.2	318.4	668.7	334.8	219.5	174.4	141.9	148.3	102.9	100.6	100.8	101.6
MEAN	7.94	10.6	21.6	10.8	7.57	5.63	4.73	4.78	3.43	3.25	3.25	3.39
MAX	13	24	167	18	8.3	6.5	6.2	5.6	4.2	4.2	4.9	9.4
MIN	6.6	7.3	9.1	8.2	6.9	4.8	3.7	3.4	2.6	2.5	2.2	2.4
AC-FT	488	632	1330	664	435	346	281	294	204	200	200	202
CAL YR 1983	TOTAL	7844.1	MEAN	21.5	MAX	262	MIN	5.1	AC-FT	15560		
WTR YR 1984	TOTAL	2658.1	MEAN	7.26	MAX	167	MIN	2.2	AC-FT	5270		

11042510 VAIL LAKE NEAR TEMECULA, CA

LOCATION.--Lat 33°29'44", long 116°58'33", in Pauba Grant, Riverside County, Hydrologic Unit 18070302, near center of Vail Dam, 0.2 mi downstream from Arroyo Seco, and 10 mi east of Temecula.

DRAINAGE AREA.--320 mi².

PERIOD OF RECORD.--October 1960 to current year. October 1960 to September 1977 published with Temecula Creek at Vail Dam.

GAGE.--Nonrecording gage. Prior to June 3, 1979, water-stage recorder at same site and datum. Datum of gage is 1,350 ft National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation); gage readings have been reduced to elevations above NGVD.

REMARKS.--Reservoir is formed by a concrete arch-type dam with spillway on left end, completed in June 1949. Capacity of reservoir at spillway level, 49,370 acre-ft, elevation, 1,470 ft. Dead storage below lowest outlet, at elevation 1,352.5 ft. Area-capacity tables for reservoir are based on a survey made in 1947. There had been no spill from Nov. 13, 1948, date of closure, to Feb. 20, 1980, when a peak spill of about 8,000 ft³/s occurred (from theoretical discharge curve). Water is released as required down Temecula Creek for diversion about 1 mi below dam.

COOPERATION.--Water levels were furnished by Rancho California Water District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, about 52,670 acre-ft, Feb. 21, 1980, elevation, 1,473.0 ft, from observed high-water mark; minimum, 1,038 acre-ft Oct. 31, 1960, elevation, 1,379.44 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, about 48,580 acre-ft Dec. 30 to Jan. 8, elevation, 1,469.26 ft; minimum observed, 41,190 acre-ft Sept. 16-30, elevation, 1,462 ft.

MONTHEND ELEVATION NGVD AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	1,467.95	47,190	--
Oct. 31.....	1,467.81	47,040	-150
Nov. 30.....	1,468.20	47,450	+410
Dec. 31.....	1,469.26	48,580	+1,130
CAL YR 1983.....	--	--	+7,940
Jan. 31.....	1,468.92	48,220	-360
Feb. 29.....	1,468.43	47,700	-520
Mar. 31.....	1,468.56	47,830	+130
Apr. 30.....	1,468.39	47,650	-180
May 31.....	1,467.73	46,960	-690
June 30.....	1,467.73	46,960	0
July 31.....	1,466.10	45,270	-1,690
Aug. 31.....	1,464.46	43,610	-1,660
Sept. 30.....	1,462.00	41,190	-2,420
WTR YR 1984.....	--	--	-6,000

SANTA MARGARITA RIVER BASIN

11043000 MURRIETA CREEK AT TEMECULA, CA

LOCATION.--Lat 33°28'47", long 117°08'35", in Temecula Grant, Riverside County, Hydrologic Unit 18070302, on right bank 0.4 mi upstream from confluence with Temecula Creek, 1.0 mi south of Temecula, and about 12 mi downstream from Skinner Reservoir on Tualota Creek.

DRAINAGE AREA.--222 mi².

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. Concrete control since Aug. 30, 1981. Altitude of gage is 970 ft, from topographic map. See WSP 1735 for history of changes prior to Dec. 16, 1938.

REMARKS.--Records good except for periods of indefinite stage-discharge relationship, which are fair. Flow partly regulated since 1974 by Skinner Reservoir. Pumping above station for irrigation of about 2,500 acres. Rancho California Water District can discharge into creek, approximately 0.10 mi upstream, to supplement low flow.

AVERAGE DISCHARGE.--60 years, 11.5 ft³/s, 8,310 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,800 ft³/s Feb. 21, 1980, gage height, 13.70 ft, on basis of slope-area measurement of maximum flow; minimum daily, 0.02 ft³/s at times in 1969, no flow Dec. 11, 1976 (upstream channel work).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 349 ft³/s Dec. 25 (1430 hrs), gage height, 3.06 ft, no other peak above base of 150 ft³/s; minimum daily, 0.20 ft³/s, estimated, July 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	.92	1.5	1.6	1.3	1.1	.70	.80	.90	.70	.35	.35
2	1.5	.93	1.5	1.6	1.3	1.1	.70	.80	.95	.45	.35	.30
3	1.1	.88	2.6	1.5	1.6	1.1	.70	.80	.90	.40	.30	.30
4	1.0	.89	2.6	1.5	1.4	1.1	.70	.70	.85	.40	.30	.30
5	.83	.89	1.6	1.5	1.3	1.1	.75	.75	.85	.45	.35	.30
6	.70	.89	1.4	1.6	1.2	1.1	.80	.70	.85	.45	.35	.30
7	1.2	.93	1.4	1.6	1.2	1.1	.80	.70	.80	.45	.35	.30
8	.88	.93	1.3	1.5	1.2	1.1	.75	.70	.80	.40	.35	.30
9	.76	.88	1.3	1.5	1.2	1.2	.70	.65	.75	.35	.40	.30
10	.68	.91	1.5	1.4	1.2	1.3	.65	.65	.75	.40	.40	.50
11	.61	1.0	1.3	1.5	1.2	1.4	.65	.65	.70	.40	.35	1.0
12	.66	5.0	1.2	1.4	1.2	1.3	.70	.70	.65	.40	.35	1.0
13	.74	4.7	1.3	1.4	1.2	1.2	.70	.70	.60	.45	.35	1.0
14	.72	1.9	1.3	1.5	1.2	1.3	.75	.75	.65	.50	.35	1.2
15	.73	1.6	1.3	1.5	1.2	1.3	.75	.75	.65	1.0	.35	1.4
16	.70	1.5	1.3	1.6	1.2	1.2	.75	.75	.70	.50	.35	1.6
17	.73	1.4	1.3	1.7	1.2	1.2	.80	.70	.65	.50	.35	1.2
18	.74	1.5	1.3	1.4	1.1	1.2	.70	.70	.65	.50	.40	.80
19	.71	1.3	1.3	1.4	1.1	1.1	.80	.65	.60	.50	.40	.90
20	.70	2.9	1.3	1.4	1.1	1.0	.85	.65	.60	.40	.40	1.0
21	.72	2.8	1.1	1.3	1.1	.95	.75	.70	.60	.20	.40	1.1
22	.75	1.6	1.3	1.3	1.1	.90	.70	.60	.60	.25	.40	1.2
23	.75	1.4	1.1	1.3	1.2	.85	.70	.60	.60	.30	.35	1.2
24	.74	1.7	1.7	1.3	1.2	.80	.75	.60	.55	.30	.35	1.3
25	.68	6.6	136	1.3	1.2	.80	.75	1.0	.50	.25	.35	1.2
26	.68	2.0	14	1.3	1.2	.75	.75	.50	.45	.25	.30	1.3
27	.70	1.6	3.8	1.2	1.1	.80	.75	.50	.45	.25	.35	1.3
28	.71	1.5	2.6	1.1	1.1	.75	.75	.50	.45	.30	.30	1.3
29	.75	1.4	2.2	1.3	1.1	.70	.80	.45	.45	.30	.30	1.3
30	.78	1.4	1.9	1.3	---	.70	.80	.45	.45	.30	.30	1.3
31	.86	---	1.7	1.3	---	.70	---	.50	---	.35	.30	---
TOTAL	27.81	53.85	197.0	44.1	34.9	32.20	22.20	20.65	19.95	12.65	10.85	26.85
MEAN	.90	1.80	6.35	1.42	1.20	1.04	.74	.67	.66	.41	.35	.90
MAX	4.0	6.6	136	1.7	1.6	1.4	.85	1.0	.95	1.0	.40	1.6
MIN	.61	.88	1.1	1.1	1.1	.70	.65	.45	.45	.20	.30	.30
AC-FT	55	107	391	87	69	64	44	41	40	25	22	53

CAL YR 1983 TOTAL 14108.09 MEAN 38.7 MAX 3710 MIN .60 AC-FT 27980
WTR YR 1984 TOTAL 503.01 MEAN 1.37 MAX 136 MIN .20 AC-FT 998

NOTE.--Indefinite stage-discharge relationship Feb. 11 to Sept. 30.

11044000 SANTA MARGARITA RIVER NEAR TEMECULA, CA

LOCATION.--Lat 33°28'26", long 117°08'29", in Temecula Grant, Riverside County, Hydrologic Unit 18070302, on left bank at upper end of Temecula Canyon, 0.1 mi downstream from confluence of Murrieta and Temecula Creeks, 1.4 mi south of Temecula, 10 mi downstream from Vail Lake, and about 12 mi downstream from Skinner Reservoir.

DRAINAGE AREA.--588 mi².

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. Concrete control since Nov. 3, 1966. Altitude of gage is 950 ft, from topographic map. Prior to Nov. 3, 1966, at site 100 ft downstream at same datum.

REMARKS.--Records good. Flow partly regulated since November 1948 by Vail Lake (station 11042510) on Temecula Creek, and since 1974 by Skinner Reservoir on Tocalota Creek which is tributary to Murrieta Creek. Rancho California Water District can discharge into Murrieta Creek, approximately 0.6 mi upstream, to supplement low flow.

AVERAGE DISCHARGE.--25 years (water years 1924-48), unregulated, 28.2 ft³/s 20,420 acre-ft/yr; 36 years (water years 1949-84), 16.1 ft³/s, 11,660 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft³/s, Feb. 16, 1927, gage height, 14.6 ft, at site then in use, from rating curve extended above 10,000 ft³/s; minimum daily, 0.30 ft³/s Aug. 18-22, 1965, (during period of upstream construction).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 447 ft³/s, Dec. 25, gage height, 3.26, from rating curve extended above 140 ft³/s on basis of slope-area measurement on Murrieta Creek 0.5 mi upstream; minimum daily, 0.40 ft³/s, July 9, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	1.9	3.2	3.4	2.9	2.6	1.8	1.3	.96	.78	.64	.90
2	3.7	2.1	3.2	3.3	2.9	2.5	1.6	1.3	.97	.44	.77	.81
3	2.6	1.9	5.1	3.2	3.0	2.5	1.8	1.3	.90	.43	.77	.81
4	2.7	2.0	5.8	3.2	3.0	2.5	1.8	1.2	.94	.44	.88	.81
5	2.5	1.9	3.4	3.2	2.9	2.5	1.9	1.3	.94	.43	.91	.74
6	2.4	1.9	3.2	3.2	2.9	2.4	2.0	1.2	.91	.49	.93	.71
7	3.0	1.9	3.1	3.3	2.9	2.5	2.0	1.2	.88	.46	.96	.75
8	2.9	2.1	3.2	3.3	2.9	2.3	1.7	1.2	.85	.41	.93	.84
9	2.6	2.1	3.3	3.2	2.9	2.3	1.6	1.1	.82	.40	1.0	.73
10	2.4	2.1	3.4	3.2	3.1	2.4	1.6	1.1	.83	.43	1.0	1.0
11	2.3	2.1	3.2	3.1	3.0	2.6	1.6	1.1	.71	.40	.94	1.0
12	2.2	1.1	3.1	3.2	2.4	2.3	1.6	1.2	.71	.43	.95	1.6
13	2.2	1.2	2.1	3.1	2.9	2.3	1.5	1.3	.66	.44	.90	1.6
14	2.2	4.9	3.1	3.2	2.9	2.4	1.4	1.3	.70	.54	.96	2.1
15	2.2	3.7	2.2	3.1	2.9	2.4	1.2	1.3	.81	1.1	.95	2.0
16	2.3	3.2	3.0	3.1	2.9	2.2	1.2	1.3	.78	.56	.89	2.9
17	2.2	3.1	3.1	3.3	2.8	2.2	1.3	1.1	.73	.52	.94	2.1
18	2.2	3.4	3.1	3.1	2.8	2.2	1.1	1.0	.72	.58	.97	1.4
19	2.2	3.0	3.2	3.1	2.7	2.0	1.3	1.0	.64	.53	1.0	1.6
20	2.1	7.1	3.2	3.1	2.6	1.9	1.3	1.0	.67	.51	1.0	1.8
21	2.1	6.0	3.0	3.1	2.6	1.8	1.1	1.1	.65	.57	.97	2.0
22	2.1	3.5	3.1	3.0	2.7	1.9	1.1	.92	.62	.70	.97	2.2
23	2.1	3.5	2.9	2.9	2.8	2.0	1.1	.95	.63	.72	.92	2.1
24	2.1	4.9	5.0	2.9	2.8	1.9	1.2	.93	.61	.70	.95	2.3
25	2.1	16	197	2.9	2.8	2.0	1.1	1.5	.52	.62	.92	2.1
26	2.0	4.6	34	3.0	2.7	1.9	1.1	.77	.49	.64	.79	2.2
27	1.9	3.6	9.4	2.8	2.6	2.0	1.1	.75	.51	.69	.88	2.2
28	1.9	3.4	5.6	2.6	2.6	1.8	1.1	.68	.46	.76	.87	2.2
29	1.9	3.4	4.4	2.8	2.6	1.8	1.3	.66	.48	.75	.82	2.2
30	1.9	3.2	4.0	3.0	---	1.8	1.3	.77	.47	.71	.82	2.2
31	1.9	---	3.6	2.9	---	1.8	---	.78	---	.81	.83	---
TOTAL	78.3	125.1	340.2	95.8	82.0	67.7	43.0	33.61	21.59	18.00	28.23	49.10
MEAN	2.53	4.17	11.0	3.09	2.83	2.18	1.43	1.08	.72	.58	.91	1.64
MAX	9.4	16	197	3.4	3.1	2.6	2.0	1.5	.97	1.1	1.0	2.9
MIN	1.9	1.9	2.9	2.6	2.6	1.8	1.1	.66	.46	.40	.77	.71
AC-FT	155	248	675	190	163	134	85	67	43	36	56	97

CAL YR 1983 TOTAL 16599.9 MEAN 45.5 MAX 4010 MIN 1.5 AC-FT 32930
WTR YR 1984 TOTAL 982.63 MEAN 2.68 MAX 197 MIN .40 AC-FT 1950

SANTA MARGARITA RIVER BASIN

11046000 SANTA MARGARITA RIVER AT YSIDORA, CA

LOCATION.--Lat 33°18'40", long 117°20'45", in NW 1/4 NW 1/4 sec.16, T.10 S., R.4 W., San Diego County, Hydrologic Unit 18070302, on Camp Joseph H. Pendleton Naval Reservation, on right bank at Basilone Road Bridge, 7.9 mi upstream from mouth, and 5.2 mi upstream from Ysidora.

DRAINAGE AREA.--740 mi².

PERIOD OF RECORD.--February 1923 to current year. Low-flow records not equivalent prior to Dec. 10, 1980, due to installation of conservation ponds above downstream site.

REVISED RECORDS.--WDR CA-83-1: 1982.

GAGE.--Water-stage recorder. Altitude of gage is 75 ft, from topographic map. See WSP 1735 for history of changes prior to Nov. 27, 1935. Nov. 27, 1935 to Feb. 25, 1970, at site 5.4 mi downstream at different datum. Feb. 25, 1970 to Dec. 10, 1980, at site 6.2 mi downstream at different datum.

REMARKS.--Records fair. Flow partly regulated by Vail Lake (station 11042500) since November 1948. Diversions for irrigation on Rancho California (formerly Santa Margarita Ranch and Pauba Ranch).

AVERAGE DISCHARGE.--61 years, 35.4 ft³/s, 25,650 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,600 ft³/s Feb. 16, 1927, gage height, 18.00 ft, site and datum then in use, on basis of slope-area measurement of maximum flow; maximum gage height, 18.80 ft Feb. 16, 1980, possibly affected by tide; no flow for all or part of most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,960 ft³/s, Dec. 25, gage height, 7.16 ft; no flow May 17 to Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	276	24	59	95	15	13	10	2.6				
2	121	24	55	79	16	13	8.0	2.2				
3	35	24	50	65	20	12	4.6	2.2				
4	33	24	94	58	26	12	4.4	2.0				
5	31	24	53	55	29	11	4.6	2.2				
6	32	24	41	53	30	11	5.8	3.5				
7	38	25	41	40	29	14	4.0	3.4				
8	39	25	39	42	30	14	3.5	4.0				
9	33	26	41	44	26	13	4.0	1.8				
10	30	26	48	40	29	13	4.0	4.0				
11	29	27	46	30	27	11	3.6	4.0				
12	28	180	41	20	29	11	3.5	4.0				
13	28	200	34	23	26	11	3.5	4.0				
14	27	58	35	29	24	12	3.8	3.0				
15	27	49	39	29	21	13	4.0	3.0				
16	27	39	41	29	24	12	4.6	2.6				
17	27	39	62	30	18	12	4.5	.60				
18	27	47	44	30	20	12	4.6	0				
19	27	41	41	29	23	12	7.2	0				
20	27	118	41	27	18	12	4.6	0				
21	26	80	40	26	17	12	3.1	0				
22	26	44	37	24	17	12	2.6	0				
23	26	45	32	24	16	12	3.5	0				
24	26	60	44	23	16	11	2.6	0				
25	26	260	1160	23	15	11	2.2	0				
26	25	80	584	23	15	12	3.0	0				
27	25	66	299	23	15	14	2.9	0				
28	24	62	218	21	14	13	2.6	0				
29	24	60	183	20	14	12	2.6	0				
30	24	58	160	18	---	11	2.6	0				
31	24	---	119	15	---	11	---	0				
TOTAL	1218	1859	3829	1087	619	375	124.7	45.10	0	0	0	0
MEAN	39.3	62.0	124	35.1	21.3	12.1	4.16	1.58	0	0	0	0
MAX	276	260	1160	95	30	14	10	4.0	0	0	0	0
MIN	24	24	32	15	14	11	2.2	0	0	0	0	0
AC-FT	2420	3690	7590	2160	1230	744	247	97	0	0	0	0

CAL YR 1983 TOTAL 51873.3 MEAN 142 MAX 4350 MIN 2.5 AC-FT 102900
WTR YR 1984 TOTAL 9160.80 MEAN 25.0 MAX 1160 MIN 0 AC-FT 18170

11046370 SAN MATEO CREEK AT SAN ONOFRE, CA

LOCATION.--Lat 33°23'28", long 117°35'23", in SE 1/4 NW 1/4 sec.14, T.9 S., R.7 W., San Diego County, Hydrologic Unit 18070301, on left bank at downstream side of bridge on old Highway 101, 0.5 mi upstream from mouth, and 2.6 mi downstream from Cristianitos Creek.

DRAINAGE AREA.--132 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1946 to September 1967, December 1983 to September 1984.

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

REMARKS.--Records fair except for periods of backwater, which are poor. Flow partly regulated by small detention reservoirs.

AVERAGE DISCHARGE.--21 years (water years 1947-67), 5.53 ft³/s, 4,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,000 ft³/s, estimated, Dec. 5, 1966, gage height, 10.42 ft (result of detention dam failure); no flow for all or several months each year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since 1946, 12.9 ft Mar. 1, 1983 (backwater from channel vegetation).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 488 ft³/s Dec. 25, gage height, 7.96 ft; minimum daily, 0.65 ft³/s Sept. 13-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			25	43	8.4	2.8	2.3	1.4	.90	.78	1.0	.75
2			24	37	8.2	2.9	2.3	1.4	.97	.89	1.0	.75
3			23	33	7.8	3.0	2.3	1.6	.97	.95	1.0	.75
4			31	29	8.4	3.0	2.2	1.6	.91	.89	1.0	.75
5			40	27	8.6	3.1	2.4	1.7	.99	.97	1.0	.75
6			32	26	9.3	3.1	2.3	1.7	1.0	1.0	1.0	.70
7			28	24	12	3.1	2.3	2.0	.75	.97	1.0	.70
8			25	23	11	3.1	2.1	1.5	.86	1.0	1.0	.70
9			22	23	10	3.1	1.9	1.5	.87	1.1	1.0	.70
10			21	22	9.3	3.0	2.0	1.6	.75	1.1	1.0	.70
11			20	21	8.4	3.0	2.0	1.5	1.1	1.2	1.0	.70
12			28	20	7.6	3.0	1.8	1.4	.99	1.0	1.0	.70
13			23	19	7.1	2.9	1.4	1.2	.97	.97	1.0	.65
14			19	18	6.6	3.4	1.4	1.0	1.0	1.1	1.0	.65
15			20	18	5.8	3.0	1.5	.94	.97	1.1	.95	.65
16			20	18	5.6	3.0	3.1	.86	1.1	1.1	.95	.65
17			18	16	5.3	3.0	1.4	.84	1.1	1.1	.95	.65
18			19	17	5.0	3.0	1.8	.97	.97	1.1	.95	.65
19			17	16	4.7	3.0	1.4	1.0	1.1	1.1	.90	.65
20			16	15	4.4	3.0	1.2	.97	.97	1.0	.90	.65
21			14	12	4.3	2.9	1.3	.97	1.2	1.0	.90	.65
22			16	11	4.3	2.9	1.2	.92	1.1	1.0	.90	.65
23			17	11	3.8	2.9	1.2	.97	.97	1.0	.85	.65
24			19	10	2.7	2.9	1.3	.93	.97	1.0	.85	.65
25			174	9.4	2.5	2.6	1.4	.75	1.0	1.0	.85	.65
26			234	8.5	3.2	2.6	1.5	.83	.97	1.0	.85	.65
27			141	7.5	2.8	2.7	1.5	.78	1.1	1.0	.80	.65
28			109	8.1	3.2	3.2	1.5	.75	1.1	1.0	.80	.65
29			71	8.6	3.1	3.5	1.6	.75	1.0	1.0	.80	.65
30			55	7.8	---	2.5	1.4	.68	.97	1.0	.80	.65
31			49	8.0	---	2.6	---	.83	---	1.0	.80	---
TOTAL			1370	566.9	183.4	91.8	53.0	35.84	29.62	31.42	28.80	20.35
MEAN			44	18	6.3	2.96	1.77	1.16	.99	1.01	.93	.68
MAX			234	43	12	3.50	3.10	2.00	1.2	1.2	1.0	.75
MIN			14	7.5	2.5	2.5	1.2	.68	.75	.78	.80	.65
AC-FT			2720	1120	364	182	105	71	59	62	57	40

NOTE.--Backwater from channel growth July 15 to Sept. 30.

11046370 SAN MATEO CREEK AT SAN ONOFRE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1982 to current year.

WATER TEMPERATURES: Water years 1982 to current year.

SEDIMENT RECORDS: Water years 1982 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: December 1983 to September 1984.

SEDIMENT RECORDS: December 1983 to September 1984.

REMARKS.--Some observer samples affected by sand contamination. Observed temperatures recorded to nearest degree only. Published as periodic sediment record Jan. 1982 to Sept. 1983.

EXTREMES FOR PERIOD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 378 mg/L, Dec. 26; minimum daily mean, 1 mg/L many days during year.

SEDIMENT DISCHARGE: Maximum daily, 302 tons, Dec. 25; minimum daily, 0 ton many days during year.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR DECEMBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

[illegible]

SAN MATEO CREEK BASIN

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11046370 SAN MATEO CREEK AT SAN ONOFRE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), DECEMBER 1983 TO SEPTEMBER 1984

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1							25	70	4.7
2							24	55	3.6
3							23	35	2.2
4							31	79	6.6
5							40	72	7.8
6									
7							32	55	4.8
8							28	48	3.6
9							25	44	3.0
10							22	42	2.5
11							21	37	2.1
12									
13							20	25	1.4
14							28	52	3.9
15							23	37	2.3
16							19	18	.92
17							20	12	.65
18									
19							20	11	.59
20							18	10	.49
21							19	10	.51
22							17	9	.41
23							16	9	.39
24									
25							14	7	.26
26							16	6	.26
27							17	9	.41
28							19	9	.46
29							174	305	302
30									
31							234	378	267
TOTAL							141	102	39
							109	58	17
							71	38	7.3
							55	30	4.5
							45	27	3.6
							1370	---	694.25

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	43	24	2.8	8.4	12	.27	2.8	2	.02
2	37	21	2.1	8.2	12	.27	2.9	2	.02
3	33	18	1.6	7.8	12	.25	3.0	2	.02
4	29	15	1.2	8.4	12	.27	3.0	1	.01
5	27	12	.87	8.6	5	.12	3.1	7	.06
6	26	9	.63	9.3	6	.15	3.1	3	.03
7	24	7	.45	12	39	1.3	3.1	1	.01
8	23	6	.37	11	25	.74	3.1	2	.02
9	23	5	.31	10	10	.27	3.1	8	.07
10	22	6	.36	9.3	7	.18	3.0	10	.08
11	21	12	.68	8.4	7	.16	3.0	9	.06
12	20	17	.92	7.6	8	.16	3.0	8	.06
13	19	14	.72	7.1	9	.17	2.9	6	.05
14	18	11	.53	6.6	10	.18	3.4	6	.06
15	18	9	.44	5.8	6	.09	3.0	6	.05
16	18	8	.39	5.6	3	.05	3.0	6	.05
17	16	5	.22	5.3	6	.09	3.0	6	.05
18	17	3	.14	5.0	7	.09	3.0	10	.08
19	16	2	.09	4.7	8	.10	3.0	7	.06
20	15	1	.04	4.4	10	.12	3.0	5	.04
21	12	1	.03	4.3	11	.13	2.9	2	.02
22	11	1	.03	4.3	4	.05	2.9	6	.05
23	11	2	.06	3.8	2	.02	2.9	3	.02
24	10	2	.05	2.7	2	.01	2.9	2	.02
25	9.4	2	.05	2.5	2	.01	2.6	1	.01
26	8.5	3	.07	3.2	5	.04	2.6	1	.01
27	7.5	3	.06	2.8	3	.02	2.7	4	.03
28	8.1	3	.07	3.2	1	.01	3.2	3	.03
29	8.6	3	.07	3.1	2	.02	3.5	20	.19
30	7.8	3	.06	---	---	---	2.5	13	.09
31	8.0	6	.13	---	---	---	2.6	8	.06
TOTAL	566.9	---	15.54	183.4	---	5.34	91.8	---	1.43

SAN MATEO CREEK BASIN

11046370 SAN MATEO CREEK AT SAN ONOFRE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), DECEMBER 1983 TO SEPTEMBER 1984

APRIL					MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	
1	2.3	5	.03	1.4	2	.01	.90	4	.01	
2	2.3	2	.01	1.4	6	.02	.97	3	.01	
3	2.3	3	.02	1.6	2	.01	.97	3	.01	
4	2.2	3	.02	1.6	3	.01	.91	1	0	
5	2.4	4	.03	1.7	4	.02	.99	5	.01	
6	2.3	5	.03	1.7	3	.01	1.0	4	.01	
7	2.3	2	.01	2.0	2	.01	.75	4	.01	
8	2.1	6	.03	1.5	3	.01	.86	5	.01	
9	1.9	4	.02	1.5	3	.01	.87	3	.01	
10	2.0	2	.01	1.6	5	.02	.75	8	.02	
11	2.0	7	.04	1.5	3	.01	1.1	3	.01	
12	1.8	5	.02	1.4	9	.03	.99	9	.02	
13	1.4	4	.02	1.2	6	.02	.97	3	.01	
14	1.4	5	.02	1.0	1	0	1.0	3	.01	
15	1.5	8	.03	.94	4	.01	.97	2	.01	
16	3.1	6	.05	.86	3	.01	1.1	3	.01	
17	1.4	7	.03	.84	4	.01	1.1	4	.01	
18	1.8	10	.05	.97	2	.01	.97	3	.01	
19	1.4	7	.03	1.0	3	.01	1.1	4	.01	
20	1.2	11	.04	.97	3	.01	.97	4	.01	
21	1.3	9	.03	.97	5	.01	1.2	5	.02	
22	1.2	8	.03	.92	7	.02	1.1	5	.01	
23	1.2	7	.02	.97	3	.01	.97	4	.01	
24	1.3	13	.05	.93	2	.01	.97	8	.02	
25	1.4	9	.03	.75	3	.01	1.0	6	.02	
26	1.5	7	.03	.83	1	0	.97	2	.01	
27	1.5	5	.02	.78	6	.01	1.1	3	.01	
28	1.5	7	.03	.75	2	0	1.1	3	.01	
29	1.6	7	.03	.75	2	0	1.0	2	.01	
30	1.4	4	.02	.68	1	0	.97	2	.01	
31	---	---	---	.83	2	0	---	---	---	
TOTAL	53.0	---	.83	35.84	---	.32	29.62	---	.34	
JULY					AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	
1	.78	8	.02	1.0	4	.01	.75	4	.01	
2	.89	4	.01	1.0	4	.01	.75	4	.01	
3	.95	1	0	1.0	4	.01	.75	4	.01	
4	.89	1	0	1.0	4	.01	.75	4	.01	
5	.97	3	.01	1.0	4	.01	.75	4	.01	
6	1.0	2	.01	1.0	4	.01	.70	4	.01	
7	.97	2	.01	1.0	4	.01	.70	4	.01	
8	1.0	3	.01	1.0	4	.01	.70	4	.01	
9	1.1	3	.01	1.0	4	.01	.70	4	.01	
10	1.1	2	.01	1.0	4	.01	.70	4	.01	
11	1.2	1	0	1.0	4	.01	.70	4	.01	
12	1.0	6	.02	1.0	4	.01	.70	4	.01	
13	.97	3	.01	1.0	4	.01	.65	4	.01	
14	1.1	5	.01	1.0	4	.01	.65	4	.01	
15	1.1	6	.02	.95	4	.01	.65	4	.01	
16	1.1	7	.02	.95	4	.01	.65	4	.01	
17	1.1	9	.03	.95	4	.01	.65	4	.01	
18	1.1	4	.01	.95	4	.01	.65	4	.01	
19	1.1	3	.01	.90	4	.01	.65	4	.01	
20	1.0	5	.01	.90	4	.01	.65	4	.01	
21	1.0	4	.01	.90	4	.01	.65	4	.01	
22	1.0	4	.01	.90	4	.01	.65	4	.01	
23	1.0	4	.01	.85	4	.01	.65	4	.01	
24	1.0	4	.01	.85	4	.01	.65	4	.01	
25	1.0	4	.01	.85	4	.01	.65	4	.01	
26	1.0	4	.01	.85	4	.01	.65	4	.01	
27	1.0	4	.01	.80	4	.01	.65	4	.01	
28	1.0	4	.01	.80	4	.01	.65	4	.01	
29	1.0	4	.01	.80	4	.01	.65	4	.01	
30	1.0	4	.01	.80	4	.01	.65	4	.01	
31	1.0	4	.01	.80	4	.01	---	---	---	
TOTAL	31.42	---	.34	28.80	---	.31	20.35	---	.30	
YEAR	2411.13		719.00							

11046370 SAN MATEO CREEK NEAR SAN ONOFRE, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR DECEMBER 1983 TO SEPTEMBER 1984

MONTH	WATER DISCHARGE FT ³ /s-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
DECEMBER 1983	1370.00	694.25	742	1440
JANUARY 1984	566.90	15.54	37	53
FEBRUARY	183.40	5.34	3	8
MARCH	91.80	1.43	0	1
APRIL	53.00	0.83	0	1
MAY	35.84	0.32	0	0
JUNE	29.62	0.34	0	0
JULY	31.42	0.34	0	0
AUGUST	28.80	0.31	0	0
SEPTEMBER ...	20.35	0.30	0	0
TOTAL	2411.13	791.00	782	1503

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR DECEMBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM FLOW, INSTAN- TANEOUS (FT ³ /s)	TEMPER- ATURE (DEG C)	SEDI- MENT SUS- PENDE (MG/L)	SED- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
DEC 26...	1545	185	16.0	284	142	21	24	28
DATE		SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM
DEC 26...		31	35	37	39	54	97	100

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR DECEMBER 1983 TO SEPTEMBER 1984

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM FLOW, INSTAN- TANEOUS (FT ³ /s)	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
JAN 10...	1300	18.0	1	24	1	11	65	96	99	100
10...	1300	18.0	1	24	--	4	40	86	98	100
10...	1300	18.0	1	24	--	--	13	66	94	100

SAN JUAN CREEK BASIN

11046550 SAN JUAN CREEK AT SAN JUAN CAPISTRANO, CA

LOCATION.--Lat 33°29'31", long 117°39'41", in SE 1/4 NE 1/4 sec.12, T.8 S., R.8 W., Orange County, Hydrologic Unit 18070301, on left bank 300 ft above Camino Capistrano bridge, 0.3 mi upstream from Arroyo Trabuco, and 0.6 mi south of San Juan Capistrano.

DRAINAGE AREA.--117 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 67 ft, from topographic map. Prior to Jan. 10, 1979, at datum 10.00 ft higher. Prior to Aug. 29, 1979, at site 300 ft downstream on downstream side of bridge.

REMARKS.--Records fair. No regulation above station. Capistrano Water Co. diverts 3.0 mi 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 (station 11046500) previously collected at site 2.8 mi upstream was published as creek only and combined.

AVERAGE DISCHARGE.--15 years, 27.1 ft³/s, 19,630 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,700 ft³/s, estimated, Mar. 4, 1978, gage height, 7.0 ft, from floodmarks, on basis of velocity-area study; maximum gage height, 17.8 ft, Feb. 18, 1980, from floodmarks; no flow at times in some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 25, 1969, 22,400 ft³/s, at site and datum then in use, 2.8 mi upstream.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	0930	341	11.30	Dec. 25	0430	*370	11.36
Nov. 24	2200	346	11.31				

Minimum daily discharge, 0.20 ft³/s Aug. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	5.1	6.2	89	12	3.8	3.1	1.1	.22	1.1	.33	.22
2	36	7.3	6.7	68	10	3.8	3.8	1.1	.23	1.1	.23	.22
3	19	4.7	26	43	9.7	3.4	4.2	1.3	.44	.90	.33	.23
4	9.1	3.1	30	43	9.1	3.4	3.8	1.1	.73	.73	.33	.23
5	9.7	2.7	22	36	9.1	3.1	4.2	1.1	.44	.58	.33	.22
6	8.5	2.7	17	36	9.1	3.1	6.7	.90	.73	.33	.33	.33
7	10	3.1	12	35	8.5	3.1	7.2	1.1	1.6	.33	.44	.58
8	8.5	2.4	12	34	8.5	2.4	9.1	1.1	1.1	.23	.33	.44
9	9.7	1.8	18	32	7.3	1.8	8.4	1.1	.90	.23	.33	.33
10	6.7	1.6	15	30	7.8	2.1	6.7	1.1	.90	.23	.23	.33
11	6.2	19	14	28	8.5	4.2	6.2	.90	.73	.23	.33	1.1
12	4.7	47	15	27	9.7	4.7	5.6	.73	.73	.44	.58	.58
13	1.8	20	13	25	8.5	3.4	4.7	.73	1.3	.33	.44	.58
14	2.1	10	13	25	7.3	3.4	3.8	2.4	1.1	.23	.33	.58
15	1.8	7.3	13	25	7.3	3.1	3.4	2.7	1.1	.23	.22	.73
16	1.6	6.7	9.7	25	7.3	3.8	2.7	2.1	1.1	.23	.22	1.1
17	1.6	6.7	10	24	7.3	4.2	2.4	1.6	.90	.22	.22	1.1
18	1.3	9.7	11	23	7.3	4.2	2.1	1.1	.90	.22	.22	1.1
19	1.8	8.5	10	22	7.8	4.7	5.6	.90	.73	.21	.33	1.3
20	3.1	17	10	21	6.7	6.2	1.3	.90	.44	.21	.44	1.8
21	4.7	12	9.7	21	6.2	5.6	.90	.90	.44	.21	.33	2.1
22	5.6	9.1	9.7	21	5.6	4.2	.58	.90	.44	.22	.22	2.4
23	4.7	7.8	9.7	20	5.6	4.7	.58	.73	.33	.22	.21	2.1
24	3.4	53	31	19	5.6	5.6	.58	.44	.44	.22	.21	1.8
25	3.8	163	221	18	5.1	6.2	.73	.44	.73	.22	.21	1.8
26	3.1	70	241	17	5.1	4.7	.73	.33	.58	.23	.20	2.1
27	3.4	32	180	14	5.1	4.2	3.1	.23	.90	.23	.21	1.8
28	2.7	18	161	13	4.2	3.8	.58	.22	.44	.58	.21	.90
29	2.7	12	134	14	4.2	2.1	.44	.22	1.3	.58	.21	.58
30	3.8	9.7	121	13	---	1.8	.73	.22	1.3	.58	.22	.44
31	4.7	---	103	12	---	2.4	---	.23	---	.44	.22	---
TOTAL	295.8	573.0	1504.7	873	215.5	117.2	103.95	29.92	23.22	12.04	8.99	29.12
MEAN	9.54	19.1	48.5	28.2	7.43	3.78	3.46	.97	.77	.39	.29	.97
MAX	110	163	241	89	12	6.2	9.1	2.7	1.6	1.1	.58	2.4
MIN	1.3	1.6	6.2	12	4.2	1.8	.44	.22	.22	.21	.20	.22
AC-FT	587	1140	2980	1730	427	232	206	59	46	24	18	58
CAL YR 1983	TOTAL	30247.4	MEAN	82.9	MAX	2180	MIN	.88	AC-FT	60000		
WTR YR 1984	TOTAL	3786.44	MEAN	10.4	MAX	241	MIN	.20	AC-FT	7510		

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SEDIMENT RECORDS: October 1970 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT DISCHARGE: Maximum daily, 331,000 tons, Mar. 4, 1979; minimum daily, 0 ton many days during most years.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT DISCHARGE: Maximum daily, 528 tons, Dec. 26; minimum daily, 0 ton, Mar. 9, 30.

[illegible]

SAN JUAN CREEK BASIN

11046550 SAN JUAN CREEK AT SAN JUAN CAPISTRANO, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	110	395	173	5.1	12	.17	6.2	37	.74
2	36	170	17	7.3	12	.24	6.7	125	3.5
3	19	85	4.4	4.7	11	.14	26	104	15
4	9.1	38	.93	3.1	10	.08	30	32	2.6
5	9.7	16	.42	2.7	10	.07	22	8	.48
6	8.5	11	.25	2.7	9	.07	17	20	.92
7	10	10	.27	3.1	8	.07	12	88	2.9
8	8.5	9	.21	2.4	7	.05	12	290	9.4
9	9.7	7	.18	1.8	6	.03	18	138	6.7
10	6.7	6	.11	1.6	6	.03	15	12	.49
11	6.2	5	.08	19	70	.19	14	10	.38
12	4.7	11	.14	47	106	.15	15	9	.36
13	1.8	10	.05	20	45	2.4	13	8	.28
14	2.1	10	.06	10	22	.59	13	22	.77
15	1.8	9	.04	7.3	8	.16	13	16	.56
16	1.6	8	.03	6.7	4	.07	9.7	10	.26
17	1.6	6	.03	6.7	3	.05	10	11	.30
18	1.3	5	.02	9.7	8	.21	11	10	.30
19	1.8	10	.05	8.5	7	.16	10	10	.27
20	3.1	13	.11	17	39	2.6	10	9	.24
21	4.7	7	.09	12	25	.81	9.7	9	.24
22	5.6	14	.21	9.1	9	.22	9.7	8	.21
23	4.7	25	.32	7.8	7	.15	9.7	7	.18
24	3.4	36	.33	53	210	132	31	77	.22
25	3.8	46	.47	163	523	250	221	679	498
26	3.1	21	.18	70	168	32	241	759	528
27	3.4	11	.10	32	75	6.5	180	390	190
28	2.7	10	.07	18	42	3.6	161	228	99
29	2.7	11	.08	12	29	1.4	134	135	49
30	3.8	11	.11	9.7	44	.76	121	105	34
31	4.7	12	.15	---	---	---	103	70	19
TOTAL	295.8	---	199.49	573.0	---	468.63	1504.7	---	1486.08
DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	89	50	12	12	5	.13	3.8	2	.02
2	68	40	7.3	10	4	.11	3.8	2	.02
3	43	30	3.5	9.7	4	.10	3.4	1	.01
4	43	27	3.1	9.1	4	.10	3.4	1	.01
5	36	25	2.4	9.1	4	.10	3.1	1	.01
6	36	25	2.4	9.1	5	.12	3.1	2	.02
7	35	23	2.2	8.5	5	.11	3.1	2	.02
8	34	22	2.0	8.5	4	.09	2.4	1	.01
9	32	20	1.7	7.3	4	.08	1.8	1	0
10	30	17	1.4	7.8	5	.11	2.1	1	.01
11	28	15	1.1	8.5	5	.11	4.2	2	.02
12	27	14	1.0	9.7	4	.10	4.7	2	.03
13	25	10	.68	8.5	4	.09	3.4	2	.02
14	25	10	.68	7.3	5	.10	3.4	3	.03
15	25	10	.68	7.3	5	.10	3.1	2	.02
16	25	10	.68	7.3	7	.14	3.8	1	.01
17	24	9	.58	7.3	5	.10	4.2	1	.01
18	23	8	.50	7.3	5	.10	4.7	1	.01
19	22	7	.42	7.8	5	.11	4.7	1	.01
20	21	7	.40	6.7	5	.09	6.2	1	.02
21	21	7	.40	6.2	4	.07	5.6	1	.02
22	21	7	.40	5.6	4	.06	4.2	1	.01
23	20	6	.32	5.6	4	.06	4.7	1	.01
24	19	5	.26	5.6	3	.05	5.6	1	.02
25	18	6	.29	5.1	3	.04	6.2	2	.03
26	17	6	.28	5.1	2	.03	4.7	3	.04
27	14	6	.23	5.1	2	.03	4.2	5	.06
28	13	7	.21	4.2	1	.01	3.6	2	.02
29	14	6	.26	4.2	1	.01	2.1	1	.01
30	13	4	.21	---	---	---	1.8	1	0
31	12	4	.13	---	---	---	2.4	2	.01
TOTAL	873	---	47.71	215.5	---	2.45	117.2	---	.54

11046550 SAN JUAN CREEK AT SAN JUAN CAPISTRANO, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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	3.1	2	.02	1.1	8	.02	.22	21	.01
2	3.8	4	.04	1.1	7	.02	.23	26	.02
3	4.2	5	.06	1.3	6	.02	.44	27	.03
4	3.8	6	.06	1.1	6	.02	.73	32	.06
5	4.2	7	.08	1.1	12	.04	.44	25	.03
6	6.7	8	.14	.90	13	.03	.73	26	.05
7	7.2	8	.17	1.1	10	.03	1.6	30	.13
8	9.1	9	.25	1.1	7	.02	1.1	36	.11
9	8.4	10	.23	1.1	5	.01	.90	40	.10
10	6.7	10	.18	1.1	8	.02	.90	45	.11
11	6.2	10	.17	.90	9	.02	.73	49	.10
12	5.6	12	.18	.73	8	.02	.73	51	.10
13	4.7	12	.15	.73	8	.02	1.3	57	.20
14	3.8	12	.12	2.4	7	.05	1.1	46	.14
15	3.4	11	.10	2.7	7	.05	1.1	47	.14
16	2.7	10	.07	2.1	8	.05	1.1	48	.14
17	2.4	11	.07	1.6	12	.05	.90	49	.12
18	2.1	14	.08	1.1	11	.03	.90	50	.12
19	5.0	38	1.1	.90	15	.04	.73	52	.10
20	1.3	18	.06	.90	16	.04	.44	51	.06
21	.90	16	.04	.90	18	.04	.44	50	.06
22	.58	15	.02	.90	16	.04	.44	42	.05
23	.58	15	.02	.73	15	.03	.33	40	.04
24	.58	17	.03	.44	15	.02	.44	45	.05
25	.73	13	.03	.44	15	.02	.73	50	.10
26	.73	13	.03	.33	15	.01	.58	50	.08
27	2.4	18	.26	.23	16	.01	.90	49	.12
28	.58	13	.02	.22	17	.01	.44	65	.08
29	.44	11	.01	.22	17	.01	1.3	80	.28
30	.73	10	.02	.22	15	.01	1.3	61	.21
31	---	---	---	.23	19	.01	---	---	---
TOTAL	102.65	---	3.81	29.92	---	.81	23.22	---	2.94
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.1	59	.18	.33	75	.07	.22	43	.03
2	1.1	57	.17	.23	66	.04	.22	49	.03
3	.90	55	.13	.33	55	.05	.23	58	.04
4	.73	53	.10	.33	55	.05	.23	59	.04
5	.58	50	.08	.33	54	.05	.22	67	.04
6	.33	43	.04	.33	55	.05	.33	66	.06
7	.33	50	.04	.44	54	.06	.58	57	.09
8	.23	54	.03	.33	55	.05	.44	54	.06
9	.23	60	.04	.33	73	.07	.33	52	.05
10	.23	74	.05	.23	60	.04	.33	46	.04
11	.23	75	.05	.33	56	.05	1.1	60	.18
12	.44	60	.07	.58	60	.09	.58	60	.09
13	.33	54	.05	.44	72	.09	.58	52	.08
14	.23	50	.03	.33	67	.06	.58	55	.09
15	.23	49	.03	.22	66	.04	.73	60	.12
16	.23	47	.03	.22	66	.04	1.1	52	.15
17	.22	44	.03	.22	65	.04	1.1	52	.15
18	.22	42	.02	.22	64	.04	1.1	45	.13
19	.21	43	.02	.33	63	.06	1.3	47	.16
20	.21	47	.03	.44	62	.07	1.8	49	.24
21	.21	50	.03	.33	60	.05	2.1	37	.21
22	.22	53	.03	.22	60	.04	2.4	34	.22
23	.22	54	.03	.21	48	.03	2.1	31	.18
24	.22	50	.03	.21	73	.04	1.8	24	.12
25	.22	43	.03	.21	67	.04	1.8	24	.12
26	.23	40	.02	.20	66	.04	2.1	24	.14
27	.23	41	.03	.21	69	.04	1.8	24	.12
28	.58	42	.07	.21	60	.03	.90	26	.06
29	.58	43	.07	.21	55	.03	.58	18	.03
30	.58	44	.07	.22	50	.03	.44	14	.02
31	.44	42	.05	.22	44	.03	---	---	---
TOTAL	12.04	---	1.68	8.99	---	1.51	29.12	---	3.09
YEAR	3785.14		2218.74						

SAN JUAN CREEK BASIN

11046550 SAN JUAN CREEK AT SAN JUAN CAPISTRANO, CA---Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

MONTH	WATER DISCHARGE FT ³ /s-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1983	295.80	199.49	63	262
NOVEMBER ...	573.00	469.63	167	637
DECEMBER ...	1504.70	1489.00	692	2180
JANUARY 1984	873.00	47.71	87	135
FEBRUARY ...	215.50	2.45	0	2
MARCH	117.20	.57	0	1
APRIL	102.65	3.81	0	4
MAY	29.92	0.81	0	1
JUNE	23.22	2.94	0	3
JULY	12.04	1.68	0	2
AUGUST	8.99	1.51	0	2
SEPTEMBER ..	29.12	3.09	0	3
TOTAL	3785.14	2222.69	1009	3232

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM FLOW, INSTAN- TANEOUS (FT ³ /s)	TEMPER- ATURE (DEG C)	SEDI- MENT SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .002 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .004 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .008 MM
NOV 29...	1405	11	17.0	28	.83	--	--	--
DEC 26...	1400	215	16.0	654	380	34	40	45
DATE		SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
NOV 29...	--	--	--	--	90	--	--	--
DEC 26...		51	58	66	--	77	93	100

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM FLOW, INSTAN- TANEOUS (FT ³ /s)	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
JAN 10...	1350	18.0	1	31	4	10	24	39
10...	1355	18.0	1	31	--	--	1	8
10...	1400	18.0	1	31	2	5	12	26
10...	1405	18.0	1	31	2	8	19	27
10...	1410	18.0	1	31	1	2	4	12
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
JAN 10...		73	94	99	100	--	--	--
10...		19	27	35	50	69	100	--
10...		37	42	48	58	74	95	100
10...		42	55	71	85	95	100	--
10...		31	44	50	58	69	91	100

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 the left bank 30 ft downstream from bridge on Del Obispo Street in San Juan Capistrano.

DRAINAGE AREA.--54.1 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to September 1977, October 1983 to September 1984. Records prior to October 1983 in files of Orange County Environmental Management Agency.

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

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

AVERAGE DISCHARGE.--6 years (water years 1973-77, 1984), 5.61 ft³/s, 4,060 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,750 ft³/s Nov. 24, 1983, gage height, 14.07 ft, from rating curve extended above 220 ft³/s; no flow many days during most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s, and maximum (*), from rating curve extended above 220 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 11	2300	465	13.26	Dec. 3	1615	203	13.11
Nov. 24	2200	*1,750	14.07	Dec. 25	0630	747	13.66

Minimum daily discharge, 0.63 ft³/s July 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	3.5	8.5	39	10	6.4	3.8	4.0	3.1	.73	1.3	3.4
2	25	7.0	10	35	12	3.6	3.9	3.8	2.8	.73	1.1	2.6
3	13	2.8	41	34	13	3.1	3.8	2.6	2.6	.76	1.1	2.8
4	5.5	2.2	32	29	12	2.6	3.9	2.1	2.9	.80	1.0	2.7
5	6.0	2.2	26	30	10	2.9	3.8	2.2	4.0	.72	1.3	2.0
6	5.5	1.7	26	26	12	3.0	20	2.0	3.3	1.4	1.1	2.3
7	6.0	2.0	27	27	5.5	3.8	4.9	2.4	4.3	.75	1.3	2.7
8	5.5	1.8	27	21	4.8	4.7	4.7	2.0	3.2	.76	1.5	1.9
9	4.8	1.6	35	20	6.1	5.8	4.4	2.2	2.6	.63	.97	1.7
10	4.0	15	20	20	11	5.2	2.6	2.0	2.6	.92	1.3	1.7
11	3.5	71	16	23	8.7	4.8	1.5	2.2	2.8	1.1	1.2	8.8
12	3.0	97	13	26	5.7	4.9	1.6	1.7	3.1	.88	1.0	5.6
13	2.6	19	11	21	4.9	5.9	1.6	1.6	1.7	.91	1.3	3.6
14	2.2	11	9.0	14	7.7	22	1.5	2.4	2.2	1.0	1.7	2.8
15	1.9	10	8.0	13	7.0	6.2	1.4	4.7	1.8	.98	1.7	2.9
16	1.6	10	7.0	13	7.3	5.6	1.4	3.4	1.3	.93	1.8	2.7
17	1.4	11	7.2	12	7.3	4.9	1.7	3.4	1.2	.98	2.1	1.9
18	1.3	24	7.6	11	6.9	4.3	1.9	3.4	1.1	1.1	2.4	2.5
19	2.0	9.1	7.4	11	7.5	4.1	57	1.8	1.2	.70	2.2	2.7
20	2.5	49	7.2	11	11	3.7	4.6	1.1	1.7	1.1	2.1	3.3
21	3.0	20	7.0	11	12	3.7	4.3	1.5	2.0	.97	2.3	3.3
22	6.0	13	7.0	11	7.4	3.9	5.0	1.3	1.8	1.5	1.7	3.6
23	3.5	11	7.1	11	5.7	4.0	4.1	1.2	1.4	1.5	2.2	3.1
24	2.7	189	85	11	9.1	3.9	3.0	2.3	1.3	2.7	2.3	2.6
25	2.3	113	230	12	10	4.0	3.2	3.2	1.5	2.6	2.3	2.9
26	2.1	24	110	12	9.3	4.0	3.0	3.2	1.9	1.1	2.2	3.5
27	1.9	20	151	11	9.3	4.0	49	3.1	2.5	1.4	2.3	3.5
28	1.8	15	91	10	11	4.1	23	2.8	2.4	1.7	2.5	3.3
29	1.7	12	65	10	11	4.0	4.4	2.7	1.5	2.4	2.8	3.7
30	2.2	10	53	9.4	---	3.9	3.9	2.7	.82	2.4	3.6	3.9
31	2.8	---	42	9.7	---	3.7	---	2.8	---	1.1	3.4	---
TOTAL	167.3	777.9	1194.0	554.1	255.2	150.7	232.9	77.8	66.62	37.25	57.07	94.0
MEAN	5.40	25.9	38.5	17.9	8.80	4.86	7.76	2.51	2.22	1.20	1.84	3.13
MAX	40	189	230	39	13	22	57	4.7	4.3	2.7	3.6	8.8
MIN	1.3	1.6	7.0	9.4	4.8	2.6	1.4	1.1	.82	.63	.97	1.7
AC-FT	332	1540	2370	1100	506	299	462	154	132	74	113	186

WTR YR 1984 TOTAL 3664.84 MEAN 10.0 MAX 230 MIN .63 AC-FT 7270

11047300 ARROYO TRABUCO AT SAN JUAN CAPISTRANO, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971-78, December 1983 to September 1984.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1970 to September 1977, December 1983 to September 1984.

SEDIMENT RECORDS: October 1970 to September 1977, December 1983 to September 1984.

REMARKS.--Days with no listed sediment concentration values were estimated from a daily transport curve.

Sediment discharge affected by upstream channel work Jan. 31 to Mar. 15. Water temperatures were measured daily in field by local observer at time of sampling.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 11,200 mg/L, Dec. 25, 1983; minimum daily mean, no flow for many days most years.

SEDIMENT DISCHARGE: Maximum daily, 9,960 tons, Dec. 25, 1983; minimum daily, 0 ton many days most years.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 11,200 mg/L, Dec. 25; minimum daily mean, 0 mg/L several days in December, February, and August.

SEDIMENT DISCHARGE: Maximum daily, 9,960 tons, Dec. 25; minimum daily, 0.03 ton several days in May.

TEMPERATURE (DEG. C) OF WATER, DECEMBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

[illegible]

SAN JUAN CREEK BASIN

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11047300 ARROYO TRABUCO AT SAN JUAN CAPISTRANO, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), DECEMBER 1983 TO SEPTEMBER 1984

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1							8.5	0	1.1
2							10	0	2.6
3							41	0	80
4							32	0	46
5							26	90	6.3
6									
7							26	67	4.7
8							27	67	4.9
9							27	80	5.8
10							35	1080	170
							20	0	16
11									
12							16	0	10
13							13	95	3.3
14							11	96	2.9
15							9.0	97	2.4
							8.0	95	2.1
16									
17							7.0	90	1.7
18							7.2	80	1.6
19							7.6	64	1.3
20							7.4	37	.74
							7.2	42	.82
21									
22							7.0	68	1.3
23							7.0	52	.98
24							7.1	53	1.0
25							85	0	325
							230	11200	9960
26									
27							110	1710	580
28							151	2570	1500
29							91	34	8.4
30							65	26	4.6
31							53	73	10
							42	50	5.7
TOTAL							1194.0	---	12761.24

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	39	36	3.8	10	263	6.7	6.4	240	4.1
2	35	28	4.7	12	330	10	3.6	170	1.7
3	34	30	2.8	13	140	4.9	3.1	110	.92
4	29	37	2.9	12	73	2.4	2.6	55	.39
5	30	27	2.2	10	50	1.4	2.9	220	1.7
6	26	19	1.3	12	260	11	3.0	420	3.4
7	27	27	2.0	5.5	186	2.8	3.8	380	3.9
8	21	18	1.0	4.8	60	.78	4.7	180	2.3
9	20	16	.86	6.1	159	2.5	5.8	80	1.3
10	20	12	.65	11	77	2.6	5.2	140	2.0
11	23	11	.68	8.7	30	.70	4.8	60	.78
12	26	10	.70	5.7	20	.31	4.9	25	.33
13	21	10	.57	4.9	127	1.4	5.9	100	1.6
14	14	8	.30	7.7	238	4.9	22	1630	190
15	13	8	.28	7.0	373	7.2	6.2	80	1.3
16	13	20	.70	7.3	209	4.1	5.6	40	.60
17	12	22	.71	7.3	253	5.2	4.9	23	.30
18	11	15	.45	6.9	77	1.4	4.3	28	.33
19	11	6	.18	7.5	103	2.2	4.1	22	.24
20	11	14	.42	11	131	4.1	3.7	23	.23
21	11	15	.45	12	0	4.7	3.7	25	.25
22	11	16	.48	7.4	200	4.0	3.9	15	.16
23	11	20	.59	5.7	265	4.1	4.0	10	.11
24	11	16	.48	9.1	240	5.9	3.9	8	.08
25	12	17	.55	10	325	8.8	4.0	5	.05
26	12	35	1.1	9.3	90	2.3	4.0	20	.22
27	11	38	1.1	9.3	250	6.3	4.0	30	.32
28	10	24	.65	11	230	6.8	4.1	15	.17
29	10	20	.54	11	240	7.1	4.0	17	.18
30	9.4	23	.58	---	---	---	3.9	15	.16
31	9.7	70	8.0	---	---	---	3.7	17	.17
TOTAL	554.1	---	41.72	255.2	---	126.59	150.7	---	219.29

SAN JUAN CREEK BASIN

11047300 ARROYO TRABUCO AT SAN JUAN CAPISTRANO, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), DECEMBER 1983 TO SEPTEMBER 1984

APRIL					MAY			JUNE	
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3.8	27	.28	4.0	22	.24	3.1	155	1.3
2	3.9	20	.21	3.8	8	.08	2.8	115	.87
3	3.8	20	.21	2.6	6	.04	2.6	107	.75
4	3.9	40	.42	2.1	5	.03	2.9	67	.52
5	3.8	6	.06	2.2	7	.04	4.0	50	.54
6	20	1630	194	2.0	10	.05	3.3	58	.52
7	4.9	50	.66	2.4	10	.06	4.3	55	.64
8	4.7	95	1.2	2.0	6	.03	3.2	16	.14
9	4.4	100	1.2	2.2	5	.03	2.6	14	.10
10	2.6	50	.35	2.0	5	.03	2.6	16	.11
11	1.5	44	.18	2.2	6	.04	2.8	45	.34
12	1.6	26	.11	1.7	7	.03	3.1	62	.52
13	1.6	16	.07	1.6	8	.03	1.7	48	.22
14	1.5	13	.05	2.4	13	.08	2.2	63	.37
15	1.4	12	.05	4.7	180	2.3	1.8	32	.16
16	1.4	12	.05	3.4	150	1.4	1.3	37	.13
17	1.7	22	.10	3.4	130	1.2	1.2	38	.12
18	1.9	11	.06	3.4	120	1.1	1.1	30	.09
19	57	2980	1100	1.8	117	.57	1.2	33	.11
20	4.6	52	.65	1.1	65	.19	1.7	30	.14
21	4.3	51	.59	1.5	139	.56	2.0	37	.20
22	5.0	38	.51	1.3	36	.13	1.8	35	.17
23	4.1	17	.19	1.2	62	.20	1.4	27	.10
24	3.0	14	.11	2.3	183	1.1	1.3	27	.09
25	3.2	11	.10	3.2	269	2.3	1.5	20	.08
26	3.0	6	.05	3.2	220	1.9	1.9	27	.14
27	49	2520	1100	3.1	141	1.2	2.5	17	.11
28	23	925	130	2.8	205	1.5	2.4	37	.24
29	4.4	40	.11	2.7	180	1.3	1.5	22	.09
30	3.9	20	.42	2.7	159	1.2	.82	25	.06
31	---	---	---	2.8	218	1.6	---	---	---
TOTAL	232.9	---	2542.88	77.8	---	20.56	66.62	---	8.97
JULY					AUGUST			SEPTEMBER	
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.73	33	.07	1.3	30	.11	3.4	19	.17
2	.73	48	.09	1.1	30	.09	2.6	15	.11
3	.76	62	.13	1.1	40	.12	2.8	24	.18
4	.80	80	.17	1.0	48	.13	2.7	20	.15
5	.72	95	.18	1.3	34	.12	2.0	13	.07
6	1.4	112	.42	1.1	34	.10	2.3	20	.12
7	.75	128	.26	1.3	38	.13	2.7	10	.07
8	.76	140	.29	1.5	0	.15	1.9	8	.04
9	.63	141	.24	.97	0	.10	1.7	10	.05
10	.92	142	.35	1.3	0	.13	1.7	18	.08
11	1.1	139	.41	1.2	0	.12	8.8	35	.83
12	.88	1550	3.7	1.0	0	.10	5.6	12	.18
13	.91	162	.40	1.3	14	.05	3.6	60	.58
14	1.0	165	.45	1.7	15	.07	2.8	90	.68
15	.98	125	.33	1.7	25	.11	2.9	112	.88
16	.93	105	.26	1.8	15	.07	2.7	125	.91
17	.98	110	.29	2.1	12	.07	1.9	120	.62
18	1.1	110	.33	2.4	17	.11	2.5	115	.78
19	.70	38	.07	2.2	16	.81	2.7	90	.66
20	1.1	25	.07	2.1	24	.14	3.3	28	.25
21	.97	50	.13	2.3	20	.12	3.3	20	.18
22	1.5	65	.26	1.7	20	.09	3.6	27	.26
23	1.5	65	.26	2.2	18	.11	3.1	33	.28
24	2.7	50	.36	2.3	10	.06	2.6	20	.14
25	2.6	37	.26	2.3	13	.08	2.9	20	.16
26	1.1	25	.07	2.2	12	.07	3.5	18	.17
27	1.4	22	.08	2.3	10	.06	3.5	18	.17
28	1.7	20	.09	2.5	9	.06	3.3	7	.06
29	2.4	25	1.7	2.8	10	.08	3.7	6	.06
30	2.4	25	.16	3.6	12	.12	3.9	6	.06
31	1.1	30	.09	3.4	15	.14	---	---	---
TOTAL	37.25	---	11.97	57.07	---	3.82	94.0	---	8.95
YEAR	3664.84		15745.99						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR DECEMBER 1983 TO SEPTEMBER 1984

MONTH	WATER DISCHARGE FT ³ /s-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
DECEMBER 1983	1194.00	12765.24	1120	13900
JANUARY 1984	554.10	41.72	217	258
FEBRUARY	255.20	127.00	13	140
MARCH	150.70	219.29	5	225
APRIL	232.90	2542.88	114	2660
MAY	77.80	20.56	0	21
JUNE	66.62	8.97	0	9
JULY	37.25	11.97	0	12
AUGUST	57.07	3.82	0	4
SEPTEMBER ...	94.00	8.95	1	10
TOTAL	2719.64	15750.00	1470	17200

[illegible]

SAN JUAN CREEK BASIN

11047300 ARROYO TRABUCO AT SAN JUAN CAPISTRANO, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR DECEMBER 1983 TO SEPTEMBER 1984

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /s)	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
JAN								
10...	1500	18.0	1	14	--	1	3	15
10...	1505	18.0	1	14	1	2	6	31
10...	1510	18.0	1	14	1	3	14	40

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 6.00 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
JAN							
10...	28	36	47	62	84	100	--
10...	56	65	71	79	86	93	100
10...	57	64	70	75	87	100	--

11047700 ALISO CREEK AT SOUTH LAGUNA, CA

LOCATION.--Lat 33°30'43", long 117°44'49", in NE1/4 sec.6, T.8 S., R.8 W., Orange County, Hydrologic Unit 18070301, on right bank, 0.35 mi upstream from Pacific Coast Highway.

DRAINAGE AREA.--34.4 mi².

PERIOD OF RECORD.--October 1982 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 15.0 ft from topographic map.

REMARKS.--Records poor. Most runoff is storm produced. Low flows affected by sewage treatment plant outfalls 1.0 and 5.0 mi upstream. About one half of the drainage area is residential and commercial development.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,400 ft³/s Mar. 1, 1983, gage height, 11.30 ft; minimum daily, 1.5 ft³/s Nov. 4, 5, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,870 ft³/s Oct. 1, gage height, 8.57 ft; minimum daily, 2.3 ft³/s Sept. 15.

EXTREMES FOR 1983 WATER YEAR.--Maximum discharge, 5,400 ft³/s Mar. 1, 1983, gage height 11.30 ft; minimum daily, 1.5 ft³/s Nov. 4, 5, 1982.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES
(NOT PREVIOUSLY PUBLISHED)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	1.9	60	3.6	7.0	985	15	40	5.5	5.0	11	21
2	4.0	1.7	16	3.0	63	851	15	24	5.5	5.0	13	22
3	4.0	1.6	7.0	3.0	20	501	15	16	5.5	5.0	15	21
4	4.0	1.5	5.7	3.3	14	64	15	13	5.5	5.0	14	21
5	4.9	1.5	5.0	4.6	32	47	15	12	5.5	5.0	13	21
6	4.3	1.7	4.5	4.8	25	80	15	11	5.5	5.0	14	23
7	3.7	1.6	4.0	4.2	49	64	15	10	5.5	5.0	19	23
8	3.2	1.6	15	4.0	205	54	14	9.5	5.5	5.0	28	23
9	2.7	50	4.0	3.6	33	49	15	9.0	5.5	5.0	21	22
10	2.7	62	2.5	3.2	19	46	15	9.0	5.5	5.0	21	21
11	2.4	30	2.2	3.4	22	45	18	8.5	5.5	4.5	22	21
12	2.2	9.0	2.0	3.2	24	43	56	8.0	5.5	4.5	74	20
13	2.2	5.0	1.8	3.1	31	42	26	8.0	5.5	4.5	25	23
14	1.9	3.5	2.2	3.1	20	96	25	8.0	5.5	4.5	56	4.0
15	2.0	2.9	2.0	3.3	17	92	24	7.5	5.5	4.5	15	24
16	2.9	2.5	1.8	3.6	15	94	24	7.5	5.5	4.5	25	442
17	2.9	2.3	1.7	5.1	14	170	24	7.0	5.5	4.5	17	435
18	2.7	2.2	1.6	5.7	13	315	103	7.0	5.5	4.5	32	24
19	3.4	12	1.6	30	13	220	50	7.0	5.5	4.5	9.6	24
20	3.4	6.0	1.6	8.4	12	68	26	7.0	5.5	4.5	22	46
21	3.7	4.0	1.6	8.7	12	300	32	6.5	5.5	4.5	20	446
22	3.7	3.0	60	12	12	132	23	6.5	5.5	4.5	19	23
23	2.9	2.6	216	175	11	148	13	6.5	5.5	4.5	19	22
24	2.4	2.4	17	14	17	800	11	6.0	5.5	4.5	20	21
25	2.2	2.3	11	100	15	100	10	6.0	5.5	4.5	20	22
26	4.0	2.2	6.6	90	250	30	10	6.0	5.0	4.5	21	24
27	2.7	2.1	6.2	709	873	19	10	6.0	5.0	4.5	20	431
28	2.0	9.0	5.7	58	144	16	10	6.0	5.0	11	20	429
29	2.9	6.0	4.6	265	---	18	13	5.5	5.0	11	20	79
30	1.9	150	4.3	14	---	16	95	5.5	5.0	12	20	259
31	2.4	---	3.3	9.7	---	14	---	5.5	---	11	20	---
TOTAL	94.6	384.1	478.5	1561.6	1982.0	5519	832	295.0	162.5	171.5	635.6	3037.0
MEAN	3.05	12.8	15.4	50.4	70.8	178	27.7	9.52	5.42	5.53	20.5	101
MAX	4.9	150	216	709	873	985	183	40	5.5	12	56	446
MIN	1.9	1.5	1.6	3.0	7.0	14	10	5.5	5.0	4.5	9.6	4.0
AC-FT	188	762	949	3100	3930	10950	1650	585	322	340	1260	6020

WTR YR 1983 TOTAL 15153.4 MEAN 41.5 MAX 985 MIN 1.5 AC-FT 30060

ALISO CREEK BASIN

11047700 ALISO CREEK AT SOUTH LAGUNA, CA--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	396	7.7	3.9	4.8	3.9	3.9	4.8	7.3	3.4	3.9	3.9	6.9
2	15	6.9	3.9	4.8	3.9	4.8	14	6.9	3.2	4.2	3.9	6.5
3	10	6.1	11	4.2	3.9	5.4	22	6.5	2.6	5.1	3.9	6.5
4	8.8	6.1	9.0	4.2	3.7	5.8	3.4	6.1	2.4	4.5	3.7	6.1
5	10	5.4	6.9	4.8	3.9	5.4	3.4	6.1	2.4	4.8	3.4	5.8
6	9.5	5.4	6.1	4.5	3.7	5.1	3.9	5.8	3.0	4.5	3.4	5.4
7	16	5.4	6.1	4.2	3.9	4.8	3.7	5.4	5.4	4.8	3.9	5.4
8	11	5.8	6.5	4.2	3.9	4.8	3.7	5.1	4.5	4.2	4.5	5.1
9	9.5	6.1	8.1	3.9	4.8	5.1	3.4	5.1	3.8	3.9	5.1	5.1
10	9.0	5.1	11	4.5	5.1	5.1	3.7	4.8	3.6	4.2	6.1	5.4
11	8.6	76	9.0	4.5	4.5	5.1	3.7	4.8	3.5	4.5	6.1	28
12	9.0	135	8.6	4.5	4.8	5.1	3.7	4.5	3.5	4.8	6.1	33
13	9.5	17	8.1	4.2	4.2	15	4.5	4.5	3.5	4.8	6.1	2.8
14	9.5	11	9.5	4.2	4.2	4.8	5.1	3.9	3.7	4.8	5.8	3.0
15	9.5	9.5	9.5	4.2	4.8	4.8	4.8	4.8	4.2	4.8	8.6	2.3
16	11	8.6	9.0	5.8	4.5	5.1	4.8	4.5	3.9	3.7	7.7	2.4
17	9.5	8.1	9.5	5.4	3.9	5.1	4.8	4.2	4.2	3.7	8.1	2.4
18	10	22	8.6	5.8	3.1	5.4	4.5	3.9	4.5	3.7	7.7	2.6
19	11	11	8.1	5.1	3.2	5.1	30	3.9	4.5	3.7	8.1	3.0
20	12	191	8.1	4.8	3.4	5.1	11	4.5	5.1	4.2	8.1	3.0
21	12	227	8.1	4.8	4.2	4.8	8.6	4.2	5.1	4.5	6.9	3.9
22	11	212	8.6	5.1	4.5	4.8	7.7	4.5	5.4	4.8	6.5	2.8
23	12	204	8.6	4.5	4.6	5.1	5.4	4.5	5.1	4.8	6.5	3.0
24	12	360	40	4.8	4.2	4.5	5.4	4.5	5.1	4.5	6.1	3.0
25	12	75	81	4.8	4.2	3.9	5.4	3.9	5.1	4.8	5.8	3.2
26	13	5.8	13	4.5	3.9	3.9	5.1	3.9	4.2	5.1	5.4	3.2
27	14	5.4	15	4.2	4.8	3.7	16	3.9	4.2	5.1	5.4	3.4
28	14	5.4	7.3	3.9	4.5	3.9	7.7	3.7	4.8	5.1	5.4	3.7
29	9.5	5.4	6.5	3.7	3.9	3.9	6.9	3.7	4.5	5.1	8.1	3.9
30	7.3	4.8	6.1	3.9	---	4.8	6.5	3.7	4.5	5.1	8.6	2.4
31	6.9	---	5.4	3.9	---	4.8	---	3.4	---	3.9	8.6	---
TOTAL	718.1	1654.0	360.1	140.7	120.1	158.9	217.6	146.5	122.9	139.6	187.5	173.2
MEAN	23.2	55.1	11.6	4.54	4.14	5.13	7.25	4.73	4.10	4.50	6.05	5.77
MAX	396	360	81	5.8	5.1	15	30	7.3	5.4	5.1	8.6	33
MIN	6.9	4.8	3.9	3.7	3.1	3.7	3.4	3.4	2.4	3.7	3.4	2.3
AC-FT	1420	3280	714	279	238	315	432	291	244	277	372	344
CAL YR 1983	TOTAL	16928.4	MEAN	46.4	MAX	985	MIN	3.0	AC-FT	33580		
WTR YR 1984	TOTAL	4139.2	MEAN	11.3	MAX	396	MIN	2.3	AC-FT	8210		

11048500 SAN DIEGO CREEK AT CULVER DRIVE, NEAR IRVINE, CA

LOCATION.--Lat 33°40'54", long 117°48'31", in San Joaquin Grant, Orange County, Hydrologic Unit 18070204, on right bank 400 ft above Culver Drive, 2.7 mi west of East Irvine and 1.0 mi northeast of Irvine.

DRAINAGE AREA.--41.8 mi².

PERIOD OF RECORD.--October 1949 to current year. Published as "near Irvine" prior to October 1976 and as "at Sand Canyon Avenue near Irvine" October 1976 to September 1982.

GAGE.--Water-stage recorder. Altitude of gage is 75 ft, from topographic map. Prior to Oct. 1, 1976, at site 1.5 mi upstream at different datum and from Oct. 1, 1976 to Sept. 30, 1982 published as "at Sand Canyon Avenue", at site 2.5 mi upstream at different datum.

REMARKS.--Records fair. Sewage treatment effluent and irrigation runoff cause low-flow fluctuations in discharge.

AVERAGE DISCHARGE.--35 years, 6.49 ft³/s, 4,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft³/s Mar. 1, 1983, gage height, 14.48 ft, from study of flow through culvert; no flow for periods in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,120 ft³/s Oct. 1, gage height, 6.79 ft; minimum daily, 1.60 ft³/s Dec. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	384	5.9	4.1	3.1	5.8	3.8	4.6	3.2	3.7	5.2	6.3	3.7
2	4.7	5.0	3.7	3.0	5.9	4.2	4.8	2.8	4.8	4.3	13	3.9
3	5.0	4.9	32	2.9	6.0	4.5	4.2	3.1	4.3	3.5	12	4.3
4	4.1	5.3	4.3	6.3	5.5	5.0	4.9	2.6	4.4	3.1	12	3.7
5	7.1	5.9	1.6	4.0	4.7	5.1	5.0	3.8	3.2	3.2	7.9	3.7
6	4.8	5.8	1.8	3.4	4.7	4.7	27	3.8	3.3	4.0	7.6	4.2
7	21	5.6	2.0	4.3	4.4	4.1	11	3.2	7.8	4.2	7.3	3.9
8	5.2	5.2	2.0	3.5	4.2	4.9	6.1	2.7	4.9	4.9	7.3	3.4
9	5.6	6.0	3.6	3.0	4.4	6.0	2.4	2.2	4.1	5.7	7.9	3.3
10	5.8	6.5	4.5	2.2	3.8	6.0	1.9	2.4	4.9	4.3	8.2	4.2
11	6.4	21	2.2	3.1	4.5	4.8	2.2	2.6	4.5	4.3	6.4	5.0
12	6.2	63	1.6	3.2	4.0	5.0	2.2	6.8	5.2	3.8	5.5	4.8
13	6.1	7.5	2.1	3.9	3.9	5.6	2.2	6.9	6.6	4.1	7.6	3.2
14	6.0	1.8	3.3	4.1	4.7	18	2.3	7.2	6.5	5.1	13	3.4
15	5.2	2.2	3.1	3.1	4.2	4.6	4.5	7.1	6.7	4.7	15	4.4
16	5.0	2.5	2.7	4.3	3.8	3.4	4.8	4.8	7.2	4.6	5.6	4.5
17	3.9	2.5	3.5	3.6	4.6	4.3	3.1	4.6	6.6	4.9	5.2	5.8
18	5.6	8.6	4.0	3.1	4.6	3.7	3.7	6.0	6.2	5.1	5.9	5.9
19	6.9	4.7	3.7	3.2	4.4	4.1	31	6.4	5.0	5.0	7.7	5.5
20	6.2	23	3.2	2.9	4.8	4.4	4.8	6.4	5.5	5.3	6.9	6.0
21	6.1	7.9	3.5	3.2	4.3	5.0	5.3	6.6	4.9	5.3	6.8	6.2
22	7.4	3.0	3.9	3.2	3.8	3.9	5.2	6.1	6.6	6.3	6.7	5.4
23	7.4	3.4	4.4	4.0	3.5	3.1	4.5	5.7	7.7	6.4	5.1	5.3
24	7.8	81	7.3	3.9	3.8	3.4	5.2	5.4	6.3	5.2	5.9	5.1
25	8.7	121	122	3.5	4.9	3.7	4.5	4.6	6.2	5.7	5.8	5.1
26	8.6	6.0	24	4.0	5.1	3.7	3.9	4.8	5.6	4.8	4.7	4.2
27	7.5	6.1	33	4.8	4.3	4.2	19	4.9	5.2	5.9	4.1	5.4
28	7.0	5.8	8.1	5.1	3.2	4.1	14	4.5	6.0	6.2	3.8	4.8
29	8.6	5.5	4.5	5.9	4.1	3.7	5.8	4.1	6.0	5.3	3.8	5.3
30	7.7	4.5	5.3	4.4	---	3.9	4.2	4.2	6.0	4.9	3.9	5.8
31	7.3	---	4.2	4.6	---	4.2	---	3.7	---	5.3	3.5	---
TOTAL	588.9	437.1	309.2	116.8	129.9	149.1	204.3	143.2	165.9	150.6	222.4	139.4
MEAN	19.0	14.6	9.97	3.77	4.48	4.81	6.81	4.62	5.53	4.86	7.17	4.65
MAX	384	121	122	6.3	6.0	18	31	7.2	7.8	6.4	15	6.2
MIN	3.9	1.8	1.6	2.2	3.2	3.1	1.9	2.2	3.2	3.1	3.5	3.2
AC-FT	1170	867	613	232	258	296	405	284	329	299	441	276
CAL YR 1983	TOTAL	9167.5	MEAN	25.1	MAX	1740	MIN	1.2	AC-FT	18180		
WTR YR 1984	TOTAL	2756.8	MEAN	7.53	MAX	384	MIN	1.6	AC-FT	5470		

SAN DIEGO CREEK BASIN

11048555 SAN DIEGO CREEK AT CAMPUS DRIVE, NEAR IRVINE, CA

LOCATION.--Lat 33°39'20", long 117°50'41", in NE1/4 sec.58, T.6S., R.9W., in San Joaquin Grant, Orange County, Hydrologic Unit 18070204, on right bank downstream abutment of Campus Drive bridge, 450 ft northwest of University Drive, and 1 mi east of MacArthur Boulevard.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1977 to September 1978 (furnished by Orange County Environmental Management Agency), October 1982 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 15 ft, from topographic map. Channel reconstruction in 1982 causes the gage-height record for the two periods to be incomparable. Rip rap drop structure 90 ft downstream and concrete low-flow channel since October 1982.

REMARKS.--Records good. Sewage inflow and reservoir release (Sand Canyon Reservoir) cause low-flow fluctuations in discharge. Daily discharges for the 1983 water year are published herein.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,500 ft³/s Mar. 1, 1983, gage height, 16.42 ft; minimum daily, 10 ft³/s Dec. 31, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,100 ft³/s Oct. 1, gage height, 13.66 ft; minimum daily, 18 ft³/s Dec. 5, 6.

EXTREMES FOR 1983 WATER YEAR.--Maximum discharge, 15,500 ft³/s Mar. 1, 1983, gage height, 16.42 ft; minimum daily, 14 ft³/s Dec. 14, 16, 1982.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES
(NOT PREVIOUSLY PUBLISHED)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	20	37	18	32	4140	35	259	28	30	30	30
2	17	18	21	20	202	3100	35	42	28	31	31	31
3	17	22	18	20	69	2070	33	38	27	31	31	31
4	17	24	17	20	34	100	34	35	27	30	32	31
5	17	22	17	20	54	80	36	32	28	30	31	29
6	18	21	16	19	45	105	33	32	28	31	33	29
7	19	20	15	20	60	64	35	30	27	32	31	30
8	21	20	17	19	145	60	35	31	27	30	32	29
9	23	340	18	20	33	54	35	35	28	30	33	29
10	25	541	18	19	30	50	35	33	29	31	36	28
11	27	53	17	21	34	47	36	31	28	31	49	28
12	27	21	15	26	33	45	35	35	29	32	55	27
13	23	20	15	29	40	47	32	37	28	31	58	28
14	24	19	14	27	29	94	32	36	28	30	60	29
15	22	19	15	22	29	44	32	36	28	32	131	29
16	20	20	14	24	29	41	31	31	29	30	75	29
17	19	20	15	24	30	197	41	28	29	31	47	29
18	19	19	16	21	30	659	227	29	29	30	29	28
19	19	73	16	49	28	335	40	29	30	29	35	28
20	20	19	16	20	29	50	602	30	29	30	28	44
21	25	18	15	19	30	310	130	32	28	30	28	37
22	24	18	302	20	31	138	44	36	29	29	29	30
23	24	17	196	409	35	128	45	33	29	30	29	29
24	23	17	17	145	135	608	44	29	31	28	29	29
25	22	18	15	41	39	74	38	29	30	28	29	29
26	33	18	16	21	588	64	36	29	30	28	29	29
27	21	19	15	1200	1150	53	36	29	29	28	29	28
28	20	20	18	72	470	52	41	28	30	27	28	29
29	22	46	18	640	---	42	629	28	30	29	28	60
30	22	1240	18	66	---	40	199	28	30	28	29	349
31	25	---	18	50	---	34	---	28	---	27	30	---
TOTAL	672	2762	995	3141	3493	12925	2696	1218	860	924	1204	1245
MEAN	21.7	92.1	32.1	101	125	417	89.9	39.3	28.7	29.8	38.8	41.5
MAX	33	1240	302	1200	1150	4140	629	259	31	32	131	349
MIN	17	17	14	18	28	34	31	28	27	27	28	27
AC-FT	1330	5480	1970	6230	6930	25640	5350	2420	1710	1830	2390	2470

WTR YR 1983 TOTAL 32135 MEAN 88.0 MAX 4140 MIN 14 AC-FT 63740

11048555 SAN DIEGO CREEK AT CAMPUS DRIVE, NEAR IRVINE, CA--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1170	24	28	27	27	26	31	25	30	24	26	25
2	51	39	21	27	27	26	31	23	31	24	28	24
3	36	28	133	25	28	25	28	24	31	22	27	24
4	37	28	27	25	30	25	34	25	30	23	28	24
5	57	28	18	23	35	25	33	27	30	23	27	26
6	35	28	18	23	35	27	64	27	31	25	27	28
7	48	28	19	23	34	25	30	27	34	24	29	28
8	34	28	19	22	35	25	29	26	25	27	29	27
9	33	29	47	23	33	26	26	29	25	23	28	27
10	31	31	25	21	31	25	24	30	26	25	30	29
11	33	96	20	23	28	23	23	31	26	25	30	41
12	34	402	27	25	28	25	23	32	26	25	29	27
13	36	37	29	28	28	25	23	35	26	24	27	24
14	35	24	25	27	28	50	23	34	27	25	31	24
15	33	23	25	27	28	23	25	33	27	23	72	26
16	33	23	25	46	28	22	24	30	26	24	25	25
17	33	22	24	30	28	23	25	29	26	26	25	25
18	33	27	24	26	28	27	28	33	24	26	25	24
19	35	22	28	27	26	26	109	31	24	25	25	26
20	33	178	34	27	27	28	23	31	24	25	26	28
21	31	298	33	29	27	29	22	31	26	25	26	28
22	33	21	33	28	27	28	23	31	27	26	26	29
23	32	20	33	30	25	26	22	30	29	26	25	25
24	33	347	255	32	26	25	23	30	29	25	27	25
25	35	298	443	32	27	26	23	30	29	26	27	23
26	36	25	75	33	25	29	22	30	27	26	25	26
27	35	24	100	37	26	29	58	29	27	26	25	24
28	33	22	30	39	26	32	32	27	28	26	26	23
29	34	21	26	42	27	30	28	28	26	26	26	24
30	34	20	26	34	---	34	25	27	24	25	26	25
31	34	---	27	27	---	32	---	30	---	25	24	---
TOTAL	2240	2251	1697	888	828	847	935	905	821	770	877	784
MEAN	72.3	75.0	54.7	28.6	28.6	27.3	31.2	29.2	27.4	24.8	28.3	26.1
MAX	1170	402	443	46	35	50	109	35	34	27	72	41
MIN	31	20	18	21	25	27	22	23	24	22	24	23
AC-FT	4440	4460	3370	1760	1640	1680	1850	1800	1630	1530	1740	1560
CAL YR 1983	TOTAL	33894	MEAN 92.9	MAX 4140	MIN 18	AC-FT 67230						
WTR YR 1984	TOTAL	13843	MEAN 37.8	MAX 1170	MIN 18	AC-FT 27460						

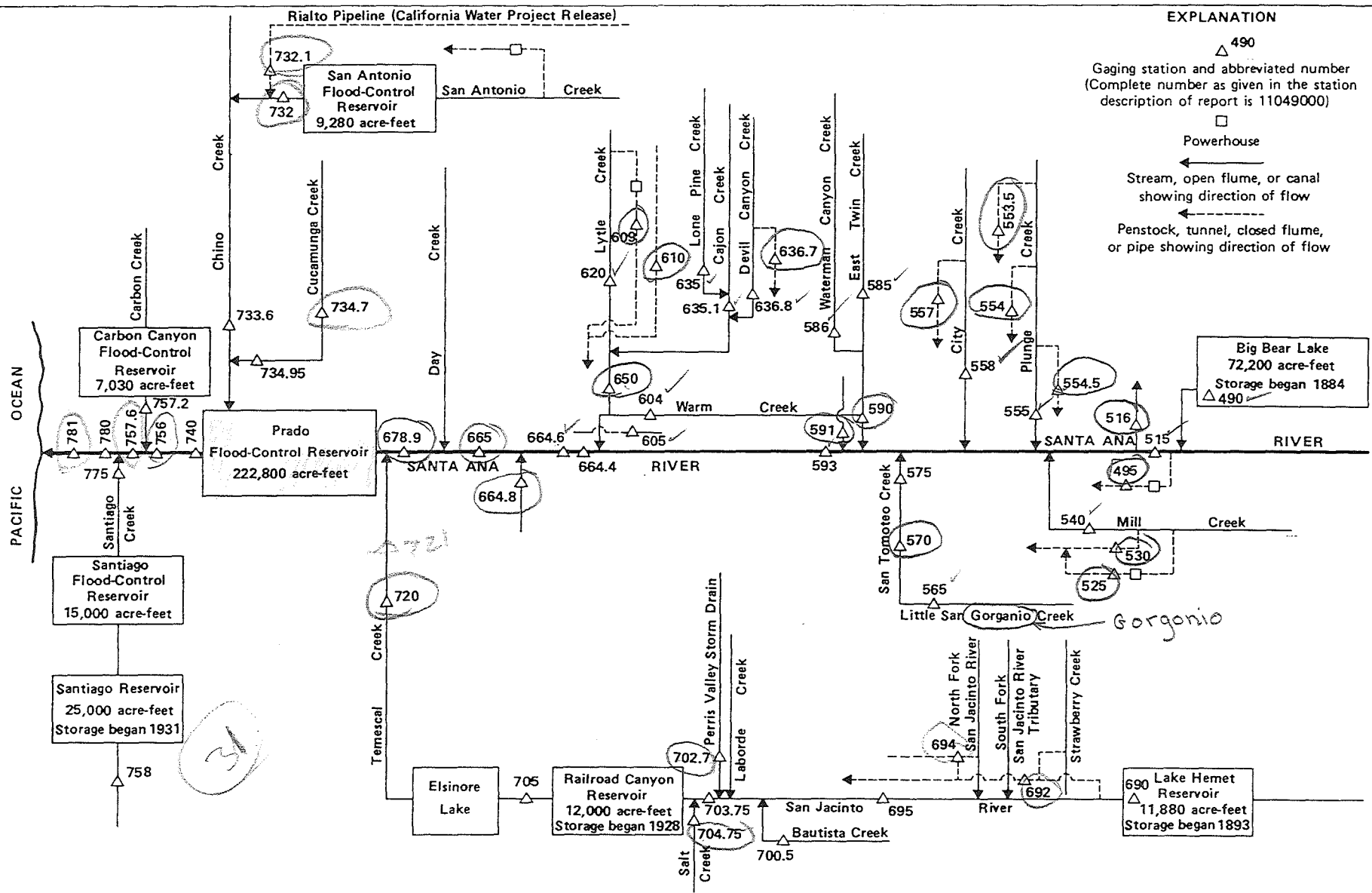


FIGURE 5. — Schematic diagram showing diversions and storage in Santa Ana River basin.

SANTA ANA RIVER BASIN

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11049000 BIG BEAR LAKE NEAR BIG BEAR LAKE, CA

LOCATION.--Lat 34°14'33", long 116°58'33", in SW 1/4 sec.22, T.2 N., R.1 W., San Bernardino County, Hydrologic Unit 18070203, at Big Bear Lake Dam on Bear Creek, 4 mi west of town of Big Bear Lake, and 7.5 mi upstream from mouth.

DRAINAGE AREA.--38.9 mi², excludes Baldwin Lake drainage included in previous reports.

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 Company.

REVISED RECORDS.--WDR CA-83-1: Drainage area.

GAGE.--Nonrecording gage. Datum of gage is 6,670.9 ft National Geodetic Vertical Datum of 1929 (levels by Bear Valley Mutual Water Company). Prior to 1912 at old dam 200 ft upstream at same datum; spillway at gage height 52.4 ft.

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 (based on July 1977 resurvey, new capacity table put into use August 1977) 73,320 acre-ft at elevation 6,743.3 ft, top of dam. No dead storage. Water used for irrigation only. See schematic diagram of Santa Ana River basin.

COOPERATION.--Record of contents was furnished by Big Bear Municipal Water District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents unknown, lake spilled in 1916, 1917, 1922, 1923, 1938, 1939, 1969, 1970, 1980, 1983; lake dry October, November 1898, August to November 1899, October, November 1904.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 67,120 acre-ft Oct. 1; minimum contents observed, 61,920 acre-ft Aug. 31.

MONTHEND CONTENTS, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Date	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	67,120	--
Oct. 31.....	64,420	-2,700
Nov. 30.....	65,630	+1210
Dec. 31.....	64,700	-930
CAL YR 1983.....	--	-2,130
Jan. 31.....	65,980	+1,280
Feb. 29.....	65,980	0
Mar. 31.....	65,840	-140
Apr. 30.....	65,130	-710
May 31.....	65,130	0
June 30.....	64,240	-890
July 31.....	62,050	-2,190
Aug. 31.....	61,920	-130
Sept. 30.....	62,250	+330
WTR YR 1984.....	--	-4870

SANTA ANA RIVER BASIN

11051500 SANTA ANA RIVER NEAR MENTONE, CA

LOCATION.--Lat 34°06'30", long 117°05'59", in NE 1/4 SW 1/4 sec.4, T.1 S., R.2 W., San Bernardino County, Hydrologic Unit 18070203, on right bank near mouth of canyon, 1.6 mi upstream from Mill Creek, 3.2 mi northeast of Mentone, and 16 mi downstream from Big Bear Lake.

DRAINAGE AREA.--210 mi², including area tributary to Baldwin Lake at head of Bear Valley.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1896 to current year. Prior to October 1914, records for river only 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 the main and supplementary gages is 1,950 ft, from topographic map. Prior to Sept. 2, 1917, nonrecording gages at several sites within 1.5 mi upstream at various datums. Sept. 3, 1917, to May 27, 1969, water-stage recorder at site 0.2 mi upstream at different datum. Canal gage at different datum.

REMARKS.--Records good. 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. Prior to Oct. 1, 1952, and since Apr. 26, 1976, Bear Valley Mutual Water Co. pumps water into channel above canal gage. See schematic diagram of Santa Ana River basin.

AVERAGE DISCHARGE.--River only: 70 years (water years 1915-84), 37.7 ft³/s, 27,310 acre-ft/yr.
Combined river and canal: 88 years, 84.6 ft³/s, 61,290 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--River only: Maximum discharge, 52,300 ft³/s Mar. 2, 1938, gage height, 14.3 ft, site and datum then in use, on basis of slope-area measurement of peak flow; no flow at times in some years.
Combined river and canal: Maximum discharge, 52,300 ft³/s Mar. 2, 1938; minimum daily, 7.4 ft³/s Sept. 21, 1971.

EXTREMES OUTSIDE PERIOD OF RECORD.--Combined river and canal: Flood of Feb. 23, 1891, 53,700 ft³/s, from notes furnished by F. C. Finkle, consulting engineer, Los Angeles.

EXTREMES FOR CURRENT YEAR.--River only: Maximum discharge, 947 ft³/s Dec. 25, gage height, 8.71 ft; minimum daily, 0.32 ft³/s Sept 15.
Combined river and canal: Maximum discharge, 947 ft³/s Dec. 25; minimum daily, 30 ft³/s Sept. 6-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	9.7	13	107	7.2	5.2	5.2	3.9	1.2	.86	9.2	.97
2	82	9.2	12	97	7.2	5.2	4.9	3.9	1.2	.77	5.2	.77
3	68	8.6	53	84	6.8	5.2	4.5	3.6	1.2	.68	3.6	.68
4	68	8.6	112	74	6.4	4.9	4.2	3.1	1.2	.68	3.4	.60
5	78	8.6	79	66	6.0	4.9	4.2	3.1	1.1	.60	3.1	.47
6	68	8.6	25	57	6.0	4.9	4.5	3.1	1.1	.52	2.8	.47
7	64	8.2	23	51	6.4	4.9	4.5	2.8	.97	.52	2.2	.47
8	64	12	18	45	6.0	4.9	4.2	2.8	.86	.47	1.8	.41
9	62	11	17	39	6.0	4.9	4.2	2.8	.77	.47	1.6	.37
10	61	8.6	15	34	6.0	4.9	3.9	2.6	.77	.52	1.6	.41
11	57	8.6	13	32	6.0	4.9	3.9	2.6	.77	.52	1.5	.41
12	56	46	13	34	6.0	4.9	3.9	2.6	.77	.52	1.3	.47
13	54	41	11	31	6.0	4.9	4.5	2.6	.77	.60	1.3	.41
14	56	26	9.2	32	6.0	5.6	4.2	2.6	.86	.77	1.3	.37
15	54	18	8.6	28	6.0	5.6	4.2	2.6	1.1	2.2	1.2	.32
16	54	18	8.6	26	6.0	5.2	5.2	2.8	1.2	4.9	1.1	25
17	54	18	7.7	24	6.8	4.9	4.2	2.8	1.3	5.6	1.1	34
18	54	24	7.7	22	6.4	4.9	4.2	2.8	1.3	9.2	2.4	34
19	56	18	7.7	19	6.4	4.5	4.5	2.6	1.3	19	2.4	36
20	54	28	7.7	18	6.0	4.2	4.5	2.6	1.6	11	2.4	37
21	52	42	7.7	18	6.0	4.2	4.2	2.6	1.8	4.2	2.2	35
22	52	26	7.7	17	6.0	4.2	3.9	2.6	2.0	3.9	2.0	36
23	54	22	8.2	17	6.0	4.2	3.6	2.4	2.0	3.9	2.0	36
24	48	25	8.6	18	6.0	3.9	3.4	2.2	1.8	3.9	2.0	37
25	22	280	589	14	6.0	3.9	3.6	2.2	1.8	3.6	1.8	35
26	16	110	468	13	5.6	3.9	3.9	2.2	1.6	3.4	1.3	36
27	14	85	376	17	5.6	4.2	4.2	2.0	1.2	3.4	1.2	38
28	12	25	265	11	5.6	4.2	4.5	1.8	1.1	11	.97	24
29	11	19	208	10	5.6	4.2	4.2	1.6	.97	58	.86	4.4
30	11	16	149	9.2	---	3.9	4.2	1.5	.86	51	.97	3.3
31	10	---	121	7.2	---	4.2	---	1.3	---	35	1.1	---
TOTAL	1578	988.7	2669.4	1071.4	178.0	144.5	127.3	80.7	36.47	241.70	66.90	458.30
MEAN	50.9	33.0	86.1	34.6	6.14	4.66	4.24	2.60	1.22	7.80	2.16	15.3
MAX	112	280	589	107	7.2	5.6	5.2	3.9	2.0	58	9.2	38
MIN	10	8.2	7.7	7.2	5.6	3.9	3.4	1.3	.77	.47	.86	.32
AC-FT	3130	1960	5290	2130	353	287	252	160	72	479	133	909

CAL YR 1983 TOTAL 58189.2 MEAN 159 MAX 1300 MIN 7.7 AC-FT 115400
WTR YR 1984 TOTAL 7641.37 MEAN 20.9 MAX 589 MIN .32 AC-FT 15160

SANTA ANA RIVER BASIN

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11051501 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 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	187	82	92	181	83	68	64	52	41	42	46	34
2	154	82	88	170	84	67	62	51	40	42	42	34
3	138	79	114	160	83	66	61	50	41	41	38	33
4	134	79	112	155	81	65	59	47	42	42	35	33
5	151	78	109	141	80	65	58	48	42	43	34	31
6	139	78	100	134	77	65	61	47	42	41	35	30
7	136	77	96	134	77	64	59	46	42	43	36	30
8	136	78	90	127	77	64	56	46	42	42	35	30
9	134	78	93	121	76	63	55	45	42	42	36	31
10	132	78	93	114	76	62	54	45	42	41	37	33
11	128	81	87	110	75	61	54	45	43	40	37	35
12	126	115	86	111	75	61	51	44	43	40	35	36
13	122	104	84	107	75	61	50	44	43	41	35	34
14	126	89	83	109	74	64	49	44	43	44	35	32
15	128	83	81	105	73	61	45	46	43	45	37	31
16	128	79	81	102	74	59	48	46	42	46	35	33
17	128	82	81	101	75	58	51	45	41	47	39	34
18	129	81	80	99	72	57	51	44	40	40	39	34
19	129	80	79	99	73	56	56	43	40	48	41	36
20	128	82	79	97	74	55	55	42	36	52	43	37
21	126	96	78	97	71	55	52	43	34	46	38	35
22	124	87	77	96	71	55	50	43	33	45	39	36
23	125	85	77	96	70	54	50	41	32	44	36	36
24	117	93	74	98	70	55	49	40	37	37	34	37
25	88	283	590	90	70	55	51	40	39	34	37	35
26	80	110	468	89	72	56	52	39	41	33	38	36
27	80	111	376	96	71	55	56	39	40	40	37	38
28	80	102	265	87	70	55	56	37	42	42	37	35
29	80	95	218	84	70	55	54	39	42	62	36	35
30	79	91	199	84	---	55	53	41	42	53	34	35
31	80	---	196	83	---	58	---	43	---	48	34	---
TOTAL	3772	2818	4426	3477	2169	1850	1622	1365	1212	1346	1150	1019
MEAN	122	93.9	143	112	74.8	59.7	54.1	44.0	40.4	43.4	37.1	34.0
MAX	187	283	590	181	84	68	64	52	43	62	46	38
MIN	79	77	74	83	70	54	45	37	32	33	34	30
AC-FT	7480	5590	8780	6900	4300	3670	3220	2710	2400	2670	2280	2020
CAL YR 1983	TOTAL	82234	MEAN	225	MAX	1300	MIN	54	AC-FT	163100		
WTR YR 1984	TOTAL	26226	MEAN	71.7	MAX	590	MIN	30	AC-FT	52020		

11051500 SANTA ANA RIVER NEAR MENTONE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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	112	215	83	9.7	0	0	13	4	.14
2	82	32	7.1	9.2	0	0	12	3	.10
3	68	8	1.5	8.6	0	0	53	--	53
4	68	11	2.0	8.6	0	0	112	--	39
5	78	21	4.4	8.6	0	0	79	37	8.7
6	68	6	1.1	8.6	0	0	25	13	.88
7	64	6	1.0	8.2	0	0	23	6	.37
8	64	6	1.0	12	4	.26	18	3	.15
9	62	5	.84	11	5	.23	17	4	.18
10	61	4	.66	9.6	0	0	15	4	.16
11	57	5	.77	8.6	0	0	13	3	.11
12	56	6	.91	46	--	7.0	13	3	.11
13	54	9	1.3	41	--	4.9	11	4	.12
14	56	5	.76	26	15	1.1	9.2	2	.05
15	54	4	.58	18	2	.10	8.6	2	.05
16	54	3	.44	18	1	.05	8.6	2	.05
17	54	2	.29	18	1	.05	7.7	2	.04
18	54	2	.29	24	6	.39	7.7	2	.04
19	56	1	.15	18	4	.19	7.7	2	.04
20	54	4	.58	28	20	2.4	7.7	1	.02
21	52	1	.14	42	26	3.0	7.7	1	.02
22	52	2	.28	26	3	.21	7.7	0	0
23	54	2	.29	22	2	.12	8.2	0	0
24	48	2	.26	25	--	1.0	8.6	10	.23
25	22	2	.12	280	--	1090	589	--	7140
26	16	1	.04	110	--	90	468	2400	3030
27	14	1	.04	85	--	43	376	1620	1640
28	12	0	0	25	14	.95	265	725	519
29	11	0	0	19	8	.41	208	320	180
30	11	0	0	16	5	.22	149	240	97
31	10	0	0	--	--	--	121	200	65
TOTAL	1578	--	109.84	988.7	--	1245.58	2669.4	--	12774.56

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	107	160	46	7.2	2	.04	5.2	0	0
2	97	125	33	7.2	2	.04	5.2	3	.04
3	84	75	17	6.8	1	.02	5.2	2	.03
4	74	44	8.8	6.4	1	.02	4.9	1	.01
5	66	27	4.8	6.0	1	.02	4.9	1	.01
6	57	23	3.5	6.0	1	.02	4.9	1	.01
7	51	20	2.8	6.4	1	.02	4.9	1	.01
8	45	16	1.9	6.0	1	.02	4.9	0	0
9	39	13	1.4	6.0	1	.02	4.9	0	0
10	34	18	1.7	6.0	1	.02	4.9	1	.01
11	32	6	.52	6.0	1	.02	4.9	0	0
12	34	6	.55	6.0	1	.02	4.9	0	0
13	31	6	.50	6.0	1	.02	4.9	1	.01
14	32	8	.69	6.0	1	.02	5.6	3	.05
15	28	4	.30	6.0	1	.02	5.6	4	.06
16	26	4	.28	6.0	1	.02	5.2	1	.01
17	24	4	.26	6.8	1	.02	4.9	1	.01
18	22	3	.18	6.4	1	.02	4.9	2	.03
19	19	3	.15	6.4	1	.02	4.5	4	.05
20	18	3	.15	6.0	1	.02	4.2	3	.03
21	18	2	.10	6.0	1	.02	4.2	2	.02
22	17	2	.09	6.0	0	0	4.2	4	.05
23	17	2	.09	6.0	0	0	4.2	3	.03
24	18	5	.24	6.0	2	.03	3.9	3	.03
25	14	3	.11	6.0	1	.02	3.9	3	.03
26	13	2	.07	5.6	1	.02	3.9	3	.03
27	17	8	.37	5.6	2	.03	4.2	3	.03
28	11	7	.21	5.6	0	0	4.2	0	0
29	10	2	.05	5.6	2	.03	4.2	0	0
30	9.2	2	.05	--	--	--	3.9	0	0
31	7.2	2	.04	--	--	--	4.2	0	0
TOTAL	1071.4	--	125.90	178.0	--	.59	144.5	--	.59

SANTA ANA RIVER BASIN

11051500 SANTA ANA RIVER NEAR MENTONE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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	5.2	0	0	3.9	2	.02	1.2	1	0
2	4.9	0	0	3.9	1	.01	1.2	1	0
3	4.5	0	0	3.6	1	.01	1.2	1	0
4	4.2	0	0	3.1	0	0	1.2	1	0
5	4.2	0	0	3.1	0	0	1.1	3	.01
6	4.5	0	0	3.1	0	0	1.1	2	.01
7	4.5	0	0	2.8	1	.01	.97	3	.01
8	4.2	0	0	2.8	2	.02	.86	2	0
9	4.2	1	.01	2.8	3	.02	.77	4	.01
10	3.9	0	0	2.6	1	.01	.77	6	.01
11	3.9	0	0	2.6	2	.01	.77	9	.02
12	3.9	1	.01	2.6	2	.01	.77	4	.01
13	4.5	2	.02	2.6	3	.02	.77	2	0
14	4.2	3	.03	2.6	3	.02	.86	0	0
15	4.2	3	.03	2.6	2	.01	1.1	4	.01
16	5.2	4	.06	2.8	1	.01	1.2	4	.01
17	4.2	1	.01	2.8	1	.01	1.3	3	.01
18	4.2	1	.01	2.8	1	.01	1.3	3	.01
19	4.5	1	.01	2.6	1	.01	1.3	3	.01
20	4.5	3	.04	2.6	1	.01	1.6	2	.01
21	4.2	3	.03	2.6	2	.01	1.8	4	.02
22	3.9	3	.03	2.6	2	.01	2.0	3	.02
23	3.6	4	.04	2.4	1	.01	2.0	4	.02
24	3.4	2	.02	2.2	1	.01	1.8	5	.02
25	3.6	3	.03	2.2	1	.01	1.8	5	.02
26	3.9	2	.02	2.2	2	.01	1.6	5	.02
27	4.2	1	.01	2.0	2	.01	1.2	5	.02
28	4.5	1	.01	1.8	2	.01	1.1	5	.01
29	4.2	2	.02	1.6	0	0	.97	2	.01
30	4.2	2	.02	1.5	0	0	.86	2	0
31	---	---	---	1.3	1	0	---	---	---
TOTAL	127.3	---	.46	80.7	---	.30	36.47	---	.30
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	.86	2	0	9.2	12	.30	.97	0	0
2	.77	1	0	5.2	2	.03	.77	0	0
3	.68	0	0	3.6	2	.02	.68	0	0
4	.68	0	0	3.4	2	.02	.60	0	0
5	.60	2	0	3.1	1	.01	.47	0	0
6	.52	4	.01	2.8	1	.01	.47	6	.01
7	.52	3	0	2.2	7	.04	.47	2	0
8	.47	2	0	1.8	3	.01	.41	3	0
9	.47	2	0	1.6	1	0	.37	4	0
10	.52	2	0	1.6	3	.01	.41	6	.01
11	.52	0	0	1.5	3	.01	.41	3	0
12	.52	0	0	1.3	2	.01	.47	1	0
13	.60	0	0	1.3	2	.01	.41	0	0
14	.77	0	0	1.3	1	0	.37	0	0
15	2.2	4	.02	1.2	0	0	.32	0	0
16	4.9	8	.11	1.1	0	0	25	0	0
17	5.6	1	.02	1.1	0	0	34	10	0
18	9.2	32	.79	2.4	0	0	34	91	8.4
19	19	70	3.6	2.4	0	0	36	25	2.4
20	11	15	.45	2.4	0	0	37	10	1.0
21	4.2	10	.11	2.2	0	0	35	5	.47
22	3.9	5	.05	2.0	0	0	36	4	.39
23	3.9	0	0	2.0	0	0	36	3	.29
24	3.9	0	0	2.0	0	0	37	2	.20
25	3.6	1	.01	1.8	0	0	35	0	0
26	3.4	0	.07	1.3	0	0	36	0	0
27	3.4	1	.01	1.2	2	.01	38	0	0
28	11	---	3.8	.97	4	.01	24	0	0
29	58	---	59	.86	2	0	4.4	0	0
30	51	375	52	.97	0	0	3.3	0	0
31	35	50	4.7	1.1	0	0	---	---	---
TOTAL	241.70	---	124.75	66.90	---	.50	458.30	---	23.17
YEAR	7641.37		14406.54						

11051500 SANTA ANA RIVER NEAR MENTONE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1963 TO SEPTEMBER 1964

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM
JUL 30...	1340	50	26.0	234	32	98	98	99	100

11054000 MILL CREEK NEAR YUCAIPA, CA

LOCATION.--Lat 34°05'27", long 117°02'12", in NW 1/4 NE 1/4 NE 1/4 sec.13, T.1 S., R.2 W., San Bernardino County, Hydrologic Unit 18070203, on left bank 50 ft downstream from bridge on State Highway 38, 3.9 mi north of Yucaipa, and 5.3 mi upstream from mouth.

DRAINAGE AREA.--42.4 mi².

WATER-DISCHARGE RECORDS

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, Southern California Edison Company datum. Canals are all at different datums. See WSP 1735 for history of changes prior to Mar. 2, 1938.

REMARKS.--Records fair. No regulation above station. Mill Creek power canals Nos. 1, 2, and 3 divert from points 100 ft, 3 mi, and 6 mi 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.

AVERAGE DISCHARGE.--Creek only: 56 years (water years 1920-38, 1948-84), 16.4 ft³/s, 11,880 acre-ft/yr. Combined creek and canals: 56 years, 38.7 ft³/s, 28,040 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Creek only: Maximum discharge, 35,400 ft³/s Jan. 25, 1969, gage height, 16.8 ft, from floodmark, from rating curve extended above 1,100 ft³/s on basis of two field estimates at gage height 14.5 ft and slope-area measurement of peak flow; no flow at times in some years. Combined creek and canals: Maximum discharge, 35,400 ft³/s Jan. 25, 1969; minimum daily, 2.7 ft³/s Feb. 23, 1949.

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

Date	Time	Creek only		Combined Creek and Canals	
		Discharge (ft ³ /s)	Gage height (ft)	Discharge (ft ³ /s)	
Oct. 1	1200	165	6.90	165	
Nov. 11	0400	104	6.73	134	
Nov. 25	0015	347	7.30	347	
Dec. 25	0800	*564	7.78	*564	
July 16	1430	120	6.78	140	
July 18	1700	393	7.40	408	

Creek only: Minimum daily, 0.06 ft³/s Aug. 23-25.

Combined creek and canals: Minimum daily, 21 ft³/s July 6, 10, 12, Sept. 8, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	.40	4.0	20	.91	.26	.34	.67	.10	.09	5.0	.10
2	54	.40	5.0	21	.54	.26	.34	.75	.10	.09	4.0	.10
3	31	1.0	20	24	.34	.26	.34	.67	.10	.09	5.0	.10
4	25	1.0	16	9.6	1.5	.26	.34	.67	.10	.09	5.0	.09
5	15	1.9	8.0	1.9	2.0	.26	1.0	.67	.10	.09	6.0	.09
6	1.0	3.5	6.0	1.1	.49	.26	.43	.61	.10	.09	3.0	.07
7	1.0	2.2	4.0	1.0	3.0	.26	.43	.61	.10	.09	.40	.09
8	2.0	2.8	1.0	1.2	3.0	.26	.43	.54	.10	.09	2.0	.10
9	1.0	1.3	4.0	1.1	.50	.26	.49	.54	.10	.09	2.0	1.4
10	.10	2.2	6.0	1.2	.50	.26	.38	.54	.10	.09	25	3.5
11	2.0	8.7	4.0	1.2	.50	.26	.34	.54	.10	.10	15	1.2
12	5.0	57	3.0	1.9	.50	.26	.34	.61	.10	.10	3.0	.10
13	5.0	27	2.0	1.2	.50	.26	2.1	1.1	.10	.10	1.0	.10
14	5.0	9.4	3.0	1.2	.50	.26	2.5	1.0	.10	.10	.10	.09
15	4.0	4.9	3.0	1.2	.50	.26	3.5	.91	.10	3.7	.10	.09
16	4.0	1.0	5.5	1.2	.50	.26	.26	.54	.10	22	.10	.09
17	5.0	2.0	3.1	1.1	.50	.26	.26	.12	.10	18	.10	.09
18	5.0	1.0	3.1	1.1	.50	.26	.26	.10	.10	42	.10	.09
19	5.0	3.0	3.1	1.0	1.5	1.5	.30	.10	.10	20	.09	.09
20	5.0	25	2.8	1.6	2.5	1.6	.30	.10	.10	13	.09	.09
21	5.0	25	1.9	1.1	1.5	1.0	.30	.10	.10	4.0	.07	.09
22	5.0	16	1.7	1.1	.50	.20	.26	.10	.10	4.0	.07	.09
23	8.0	13	1.5	1.2	.50	.48	.26	.10	.10	.40	.06	8.0
24	17	26	3.8	1.3	.50	.38	.26	.10	.10	2.0	.06	10
25	5.0	75	280	1.1	.50	.38	.26	.10	.10	6.0	.06	5.0
26	4.0	37	116	2.8	.30	.38	.26	.10	.26	16	.07	5.0
27	3.0	7.9	75	3.8	.30	.38	.30	.14	.09	30	.09	6.0
28	2.0	5.6	52	1.3	.30	.38	.30	.12	.09	23	8.0	5.0
29	3.0	4.9	37	1.1	.30	.38	.30	.10	.09	19	9.0	8.0
30	3.0	1.7	29	.75	---	.38	.30	.10	.09	16	.10	17
31	3.0	---	22	.75	---	.38	---	.10	---	14	.10	---
TOTAL	346.10	367.80	726.5	111.10	25.48	12.80	17.48	12.55	3.12	254.40	94.76	71.85
MEAN	11.2	12.3	23.4	3.58	.88	.41	.58	.40	.10	8.21	3.06	2.40
MAX	113	75	280	24	3.0	1.6	3.5	1.1	.26	42	25	17
MIN	.10	.40	1.0	.75	.30	.20	.26	.10	.09	.09	.06	.07
AC-FT	686	730	1440	220	51	25	35	25	6.2	505	188	143

CAL YR 1983 TOTAL 21776.93 MEAN 59.7 MAX 314 MIN .10 AC-FT 43190
WTR YR 1984 TOTAL 2043.94 MEAN 5.58 MAX 280 MIN .06 AC-FT 4050

11054001 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 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	35	39	44	41	35	33	27	25	22	27	23
2	54	35	39	45	41	35	32	27	25	22	27	23
3	38	35	50	48	40	34	31	26	25	22	27	23
4	34	35	45	47	41	34	31	25	25	22	27	23
5	45	34	39	45	39	34	30	25	27	22	27	22
6	37	33	37	45	39	34	30	25	26	21	27	22
7	36	34	36	46	40	34	29	25	25	22	27	22
8	35	33	36	45	39	33	29	27	25	23	27	21
9	35	35	36	46	40	33	28	28	25	22	27	23
10	35	35	38	44	39	32	29	28	25	21	35	23
11	35	41	38	45	40	32	30	26	24	22	29	23
12	35	79	36	45	38	32	28	26	24	21	27	23
13	35	48	37	46	38	32	28	25	24	23	27	22
14	35	39	37	46	38	33	29	25	25	25	27	23
15	35	38	37	45	38	32	28	28	24	30	26	22
16	35	35	38	46	38	32	26	28	24	40	25	22
17	35	35	37	45	39	32	27	29	24	27	25	22
18	35	35	37	45	38	32	27	28	23	54	27	22
19	35	35	37	44	37	31	28	27	24	27	28	22
20	34	51	37	45	36	30	28	28	24	28	28	21
21	34	48	38	44	36	31	28	28	23	25	28	22
22	34	43	38	43	36	31	26	26	22	25	28	24
23	34	40	38	43	36	30	26	26	22	25	27	24
24	34	50	38	43	36	31	26	26	24	25	25	24
25	34	58	280	42	36	31	27	26	23	25	25	23
26	34	46	116	42	35	31	28	26	22	30	25	23
27	34	37	75	39	35	29	28	26	22	39	25	23
28	35	42	64	41	36	29	28	25	22	30	25	23
29	35	41	61	41	35	29	28	24	22	27	24	23
30	35	40	53	42	---	30	26	25	22	27	24	23
31	35	---	46	41	---	31	---	25	---	27	23	---
TOTAL	1195	1225	1613	1368	1100	989	852	816	717	821	826	679
MEAN	38.5	40.8	52.0	44.1	37.9	31.9	28.4	26.3	23.9	26.5	26.6	22.6
MAX	119	79	280	48	41	35	33	29	27	54	35	24
MIN	34	33	36	39	35	29	26	24	22	21	23	21
AC-FT	2370	2430	3200	2710	2180	1960	1690	1620	1420	1630	1640	1350
CAL YR 1983	TOTAL	35035	MEAN	96.0	MAX	339	MIN	21	AC-FT	69490		
WTR YR 1984	TOTAL	12201	MEAN	33.3	MAX	280	MIN	21	AC-FT	24200		

SANTA ANA RIVER BASIN

11054000 MILL CREEK NEAR YUCAIPA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1983 to April 1984 (discontinued).

WATER TEMPERATURES: Water year 1983 to April 1984 (discontinued).

SEDIMENT RECORDS: Water year 1983 to April 1984 (discontinued).

REMARKS.--Periodic suspended sediment sample concentrations October 1983 to April 1984 given in table below:

SUSPENDED SEDIMENT MEASUREMENTS, OCTOBER 1983 TO APRIL 1984

DATE	TIME	WATER TEMPER- ATURE (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDIMENT CONCEN- TRATION (MG/L)
Nov. 10, 1983	1045	12.0	1.1	26
Dec. 16	1050	8.5	6.2	14
Dec. 29	1220	10.0	35	302
Jan. 9, 1984	1410	12.5	1.1	7
Feb. 1	0930	10.0	1.3	3
Feb. 6	1400	13.0	.14	6
Mar. 7	1030	11.5	.25	63
Apr. 5	1440	15.0	.41	7
Apr. 12	1105	15.5	.34	3

11055500 PLUNGE CREEK NEAR EAST HIGHLANDS, CA

LOCATION.--Lat 34°07'06", long 117°08'27", in SW 1/4 NE 1/4 NE 1/4 sec.1, T.1 S., R.3 W., San Bernardino County, Hydrologic Unit 18070203, on left bank at mouth of canyon at crossing of North Fork ditch siphon, 1.8 mi northeast of East Highlands.

DRAINAGE AREA.--16.9 mi².

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, from topographic map. Prior to Oct. 1, 1969, creek gage at datum 4.00 ft higher. Diversions are all at different datums.

REMARKS.--Records fair. 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, 1.0 mi, and 2.5 mi 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: 65 years, 6.95 ft³/s, 5,040 acre-ft/yr.
Combined creek and diversions: 33 years, 9.26 ft³/s, 6,710 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Creek only: Maximum discharge, 5,340 ft³/s Mar. 2, 1938, on basis of slope-area measurement of peak flow; no flow at times in some years.
Combined creek and diversions: Maximum discharge, 4,770 ft³/s Dec. 6, 1966; no flow Nov. 12, 1964, Sept. 29, 1965.

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

Date	Time	Creek only Discharge (ft ³ /s)	Gage height (ft)	Combined Creek and Diversions Discharge (ft ³ /s)
Nov. 25	0030	*250	4.56	*250
Dec. 25	1245	225	4.48	225

Creek only: Minimum daily, 0.35 ft³/s Sept 20.

Combined creek and diversions: Minimum daily, 0.85 ft³/s Sept. 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	1.3	6.7	14	1.6	1.1	2.2	1.6	.78	.44	.45	.49
2	10	1.4	6.5	13	1.6	1.3	2.0	1.6	.85	.44	.44	.52
3	7.1	1.2	24	13	1.6	1.4	1.9	1.5	.83	.44	.42	.50
4	6.9	1.2	17	12	1.5	1.1	2.0	1.3	.54	.44	.45	.46
5	10	1.3	11	11	1.5	1.1	1.8	1.2	.57	.43	.47	.44
6	3.3	1.4	9.8	11	1.5	1.1	1.9	1.2	.57	.43	.46	.42
7	1.7	1.1	8.9	10	1.5	1.3	1.7	1.0	.55	.41	.48	.41
8	1.6	1.1	8.2	10	1.5	1.3	1.6	.85	.53	.42	.47	.41
9	1.4	1.1	8.3	9.7	1.5	1.3	1.6	.85	.49	.44	.50	.46
10	1.3	1.1	8.4	9.2	1.5	1.3	1.5	.81	.48	.43	.66	.55
11	1.0	1.4	7.9	8.6	1.5	1.4	1.6	.80	.49	.43	.88	.64
12	.93	19	7.6	8.4	1.5	1.7	1.4	.81	.51	.44	.73	.61
13	.93	13	7.3	8.4	1.4	1.5	1.4	.80	.51	.44	.53	.55
14	1.0	4.9	7.3	8.9	1.4	2.0	1.3	.79	.53	.52	.55	.46
15	1.1	3.6	7.1	8.3	1.4	1.8	1.6	.78	.54	.59	.58	.50
16	1.2	3.0	7.1	8.0	1.7	1.5	2.1	.73	.54	.55	.55	.79
17	1.2	3.0	7.1	7.9	1.6	1.3	2.1	.73	.49	.49	.55	.50
18	1.2	6.3	6.9	7.6	1.3	1.2	2.3	.73	.49	.51	.64	.49
19	1.0	5.9	6.8	7.5	1.2	1.3	2.4	.72	.47	.54	.63	.38
20	1.0	7.5	6.8	7.3	1.2	1.3	2.2	.70	.48	.51	.64	.35
21	1.0	7.9	6.8	7.2	1.2	1.5	2.1	.75	.48	.52	.60	.39
22	.97	6.5	6.8	7.0	1.2	1.5	1.8	.79	.48	.56	.54	.43
23	.97	6.1	6.8	6.8	1.2	1.5	1.6	.79	.47	.56	.52	.46
24	1.0	14	7.9	6.7	1.2	1.5	1.5	.75	.50	.51	.48	.47
25	1.0	72	143	6.6	1.2	1.6	1.6	.62	.50	.48	.48	.45
26	.85	14	108	6.7	1.2	1.7	1.5	.54	.46	.49	.49	.41
27	.88	10	90	6.7	1.1	1.8	1.7	.49	.45	.52	.47	.38
28	.90	8.5	44	4.5	1.1	1.8	1.7	.58	.43	.55	.47	.37
29	.94	7.6	26	3.4	1.1	1.6	1.7	.48	.43	.48	.45	.36
30	1.1	7.0	19	2.4	---	1.6	1.6	.43	.44	.47	.46	.39
31	1.2	---	16	1.6	---	1.7	---	.56	---	.43	.44	---
TOTAL	107.67	233.4	655.0	253.4	40.0	45.1	53.4	26.28	15.88	14.91	16.48	14.04
MEAN	3.47	7.78	21.1	8.17	1.38	1.45	1.78	.85	.53	.48	.53	.47
MAX	43	72	143	14	1.7	2.0	2.4	1.6	.85	.59	.88	.79
MIN	.85	1.1	6.5	1.6	1.1	1.1	1.3	.43	.43	.41	.42	.35
AC-FT	214	463	1300	503	79	89	106	52	31	30	33	28

CAL YR 1983 TOTAL 8807.26 MEAN 24.12 MAX 261 MIN .91 AC-FT 17500
WTR YR 1984 TOTAL 1475.56 MEAN 4.03 MAX 143 MIN .35 AC-FT 2930

SANTA ANA RIVER BASIN

11055501 PLUNGE CREEK NEAR EAST HIGHLANDS, CA--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF PLUNGE CREEK AND
DIVERSIONS NEAR EAST HIGHLANDS, CA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	4.8	6.7	14	6.3	5.5	5.1	3.7	2.1	1.3	1.3	1.1
2	10	4.9	6.5	13	6.3	5.7	4.5	3.7	2.2	1.2	1.3	1.1
3	7.2	4.4	24	13	6.2	5.7	4.2	3.3	2.3	1.2	1.3	1.0
4	9.5	4.2	17	12	6.2	5.4	4.4	3.3	2.2	1.2	1.3	.96
5	16	4.2	11	11	6.0	5.5	4.4	3.2	2.6	1.3	1.3	.92
6	8.5	4.2	9.8	11	6.0	5.5	4.8	3.2	2.6	1.2	1.2	.87
7	6.8	4.3	8.9	10	5.9	5.5	4.5	3.1	2.5	1.1	1.2	.85
8	6.6	4.1	8.2	10	5.8	5.4	4.4	2.9	2.3	1.1	1.2	.85
9	6.3	4.1	8.3	9.7	5.8	5.3	4.2	2.9	2.1	1.1	1.3	.90
10	6.0	4.1	8.4	9.2	5.8	5.2	4.0	2.6	1.9	1.0	1.6	1.1
11	5.5	4.5	7.9	8.6	5.8	5.1	4.0	2.6	2.0	1.0	1.7	1.5
12	5.3	22	7.6	8.4	5.8	5.0	3.7	2.4	2.0	1.0	1.5	1.7
13	5.2	16	7.3	8.4	5.7	5.1	3.4	2.4	2.0	.98	1.3	1.4
14	5.3	7.7	7.3	8.9	5.7	6.2	3.2	2.3	2.0	1.2	1.3	1.0
15	5.5	6.3	7.1	8.3	5.7	5.6	3.5	2.7	2.0	1.6	1.5	.98
16	5.4	5.6	7.1	8.0	6.1	5.5	3.8	2.5	1.9	1.7	1.4	2.1
17	5.4	5.6	7.1	7.9	6.1	5.3	3.8	2.4	1.7	1.4	1.3	1.7
18	5.3	7.2	6.9	7.6	5.9	5.0	4.3	2.3	1.6	1.4	1.6	1.4
19	4.9	5.9	6.8	7.5	5.9	5.0	5.0	2.2	1.5	1.4	1.7	1.1
20	4.8	7.5	6.8	7.3	5.9	4.7	4.3	2.2	1.5	1.3	1.9	1.1
21	4.7	7.9	6.8	7.2	5.8	4.7	4.2	2.2	1.6	1.3	1.7	1.1
22	4.6	6.5	6.8	7.0	5.8	4.7	3.9	2.2	1.6	1.5	1.5	1.4
23	4.5	6.1	6.8	6.8	5.8	4.6	3.6	2.1	1.6	1.5	1.3	1.5
24	4.3	14	7.9	6.7	5.8	4.4	3.6	2.1	1.6	1.3	1.2	1.5
25	4.5	72	143	6.6	5.7	4.5	3.9	2.1	1.6	1.2	1.2	1.4
26	4.4	14	108	6.7	5.8	4.7	3.7	2.0	1.5	1.2	1.2	1.2
27	4.5	10	90	7.4	5.6	4.5	4.1	1.8	1.4	1.3	1.1	1.2
28	4.5	8.5	44	6.9	5.6	4.2	4.1	1.7	1.3	1.4	1.1	1.2
29	4.5	7.6	26	6.5	5.6	3.9	4.0	1.7	1.3	1.4	1.1	1.1
30	4.6	7.0	19	6.4	---	4.0	3.7	1.6	1.3	1.4	1.1	1.2
31	4.6	---	16	6.3	---	4.2	---	1.9	---	1.2	1.0	---
TOTAL	224.2	285.2	655.0	268.3	170.4	155.6	122.3	77.3	55.8	39.38	41.7	36.43
MEAN	7.23	9.51	21.1	8.65	5.88	5.02	4.08	2.49	1.86	1.27	1.35	1.21
MAX	45	72	143	14	6.3	6.2	5.1	3.7	2.6	1.7	1.9	2.1
MIN	4.3	4.1	6.5	6.3	5.6	3.9	3.2	1.6	1.3	.98	1.0	.85
AC-FT	445	566	1300	532	338	309	243	153	111	78	83	72
CAL YR 1983	TOTAL	9466.10	MEAN	25.9	MAX	261	MIN	3.80	AC-FT	18800		
WTR YR 1984	TOTAL	2131.61	MEAN	5.82	MAX	143	MIN	.85	AC-FT	4230		

11055800 CITY CREEK NEAR HIGHLAND, CA

LOCATION.--Lat 34°08'38", long 117°11'16", in SE 1/4 SW 1/4 NW 1/4 sec.27, T.1 N., R.3 W., San Bernardino County, Hydrologic Unit 18070203, on right bank 0.6 mi upstream from Highland Avenue, and 1.5 mi northeast of Highland.

DRAINAGE AREA.--19.6 mi².

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, from topographic map. Prior to Mar. 1, 1939, at site 0.2 mi 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 a site 0.5 mi 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: 65 years, 9.89 ft³/s, 7,170 acre-ft/yr.
Combined creek and canal: 60 years, 11.5 ft³/s, 8,330 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Creek only: Maximum discharge, 7,000 ft³/s Feb. 25, 1969, gage height, 9.39 ft, from rating curve extended above 580 ft³/s on basis of slope-area measurement at gage height 8.82 ft; no flow for several months in some years.

Combined creek and canal: Maximum discharge, 7,000 ft³/s Feb. 25, 1969; no flow at times in some years.

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

Date	Time	Creek only Discharge (ft ³ /s)	Gage height (ft)	Combined Creek and Canal Discharge (ft ³ /s)
Nov. 25	Unknown	Unknown	Unknown	Unknown
Dec. 25	1715	*287	5.40	*287

Creek only: Minimum daily, 0.29 ft³/s Aug. 8.

Combined creek and canal: Minimum daily, 0.64 ft³/s July 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	7.8	8.2	21	9.7	5.4	6.4	3.1	.72	.48	.65	.50
2	15	8.1	8.2	20	9.8	5.4	5.2	3.2	.80	.45	.54	.54
3	9.2	6.1	29	18	9.6	5.2	4.7	2.8	1.2	.42	.45	.53
4	8.9	6.0	18	16	9.5	5.1	4.5	2.3	1.5	.48	.40	.47
5	12	6.0	13	16	9.4	5.0	4.5	2.2	2.1	.50	.40	.45
6	7.9	5.9	11	15	7.6	5.0	5.0	2.0	2.3	.44	.37	.44
7	8.2	5.8	11	14	6.3	5.0	4.5	1.7	2.3	.38	.33	.44
8	8.1	5.9	10	14	6.2	5.0	4.2	1.5	2.8	.38	.29	.44
9	7.8	5.8	10	14	6.2	5.0	3.9	1.5	3.5	.39	.34	.45
10	7.0	5.6	10	13	6.4	5.0	3.7	1.5	3.3	.35	.95	.85
11	5.8	7.1	10	13	6.2	4.9	3.7	1.6	3.4	.32	.80	1.6
12	5.5	30	9.9	12	6.2	5.0	3.3	1.4	3.5	.33	.53	2.1
13	5.7	22	9.7	12	6.1	5.0	3.0	1.3	3.7	.31	.54	1.6
14	6.3	13	9.6	13	6.0	7.0	2.7	1.3	3.8	.42	.57	.94
15	6.6	7.0	9.3	12	5.8	5.7	2.6	1.8	3.9	.88	1.1	.74
16	6.7	6.4	9.2	12	6.7	5.5	2.4	1.8	3.6	2.6	.91	1.1
17	6.9	6.2	9.2	12	6.7	6.1	2.6	1.5	2.9	1.1	.64	1.6
18	6.6	8.0	9.1	11	6.1	7.4	3.0	1.4	2.5	.86	1.0	1.2
19	5.9	7.4	8.9	11	5.8	5.9	4.2	1.3	2.4	1.1	1.5	1.4
20	5.8	10	8.9	11	5.6	4.7	3.2	1.2	2.4	.78	1.7	.89
21	5.7	9.0	8.9	11	5.7	4.4	2.7	1.3	2.3	.83	1.3	1.2
22	5.6	8.2	8.9	11	5.7	4.3	2.4	1.3	1.2	1.2	1.0	1.7
23	5.6	7.8	8.8	10	5.6	4.2	2.2	1.1	.64	1.5	.78	1.7
24	5.6	16	12	10	5.7	4.2	2.2	1.1	.67	.87	.59	1.6
25	5.8	90	128	10	5.7	4.1	2.8	1.0	.82	.58	.59	1.4
26	5.8	22	90	9.9	5.5	4.4	2.8	.98	.60	.45	.73	1.1
27	6.2	12	78	9.7	5.4	4.4	3.8	.90	.51	.63	.62	.96
28	6.4	10	47	9.7	5.4	3.8	3.4	.97	.48	.80	.53	.82
29	6.6	9.4	34	9.7	5.4	3.6	3.2	.76	.47	1.6	.51	.76
30	6.6	8.6	27	9.6	---	3.7	3.0	.63	.49	1.5	.46	.79
31	7.0	---	23	9.7	---	4.7	---	.73	---	.77	.47	---
TOTAL	262.8	373.1	687.8	390.3	192.0	154.1	105.8	47.17	60.80	23.70	21.59	30.31
MEAN	8.48	12.4	22.2	12.6	6.62	4.97	3.53	1.52	2.03	.76	.70	1.01
MAX	50	90	128	21	9.8	7.4	6.4	3.2	3.9	2.6	1.7	2.1
MIN	5.5	5.6	8.2	9.6	5.4	3.6	2.2	.63	.47	.31	.29	.44
AC-FT	521	740	1360	774	381	306	210	94	121	47	43	60

CAL YR 1983 TOTAL 10729.20 MEAN 29.4 MAX 269 MIN 4.70 AC-FT 21300
WTR YR 1984 TOTAL 2349.47 MEAN 6.42 MAX 128 MIN .29 AC-FT 4660

SANTA ANA RIVER BASIN

11055801 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 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	9.5	8.2	21	9.7	8.0	9.4	5.9	2.3	1.5	1.6	1.1
2	17	9.8	8.2	20	9.8	8.0	8.2	6.0	2.5	1.3	1.5	1.2
3	11	7.8	29	18	9.6	7.8	7.7	5.6	3.1	1.2	1.4	1.1
4	11	7.6	18	16	9.5	7.7	7.4	5.0	3.5	1.4	1.2	.99
5	14	7.6	13	16	9.4	7.6	7.4	5.0	4.1	1.4	1.2	.89
6	9.6	7.6	11	15	8.8	7.6	7.9	4.8	4.3	1.2	1.1	.80
7	9.9	7.5	11	14	8.5	7.6	7.4	4.4	4.3	1.0	1.0	.86
8	9.9	7.5	10	14	8.4	7.6	7.1	4.1	3.9	.97	.87	.88
9	9.6	7.4	10	14	8.4	7.6	6.8	4.0	3.5	.95	.94	.97
10	8.7	7.2	10	13	8.6	7.6	6.6	4.0	3.3	.83	1.2	1.7
11	7.4	8.7	10	13	8.4	7.5	6.6	4.1	3.4	.71	1.1	2.6
12	7.1	30	9.9	12	8.4	7.6	6.1	3.9	3.5	.69	1.0	3.1
13	7.3	22	9.7	12	8.3	7.6	5.9	3.7	3.7	.64	1.0	2.5
14	7.9	13	9.6	13	8.3	9.7	5.5	3.7	3.8	.93	1.0	1.8
15	8.2	7.0	9.3	12	8.1	8.4	5.4	4.3	3.9	2.0	1.7	1.5
16	8.3	6.4	9.2	12	9.0	8.1	5.2	4.2	3.6	4.1	1.5	1.9
17	8.5	6.2	9.2	12	9.0	7.8	5.4	3.9	2.9	2.6	1.3	2.5
18	8.2	8.0	9.1	11	8.4	7.4	5.8	3.7	2.5	2.2	1.7	2.1
19	7.5	7.4	8.9	11	8.2	6.9	7.2	3.5	2.4	2.4	2.3	2.3
20	7.4	10	8.9	11	7.9	6.9	6.2	3.4	2.4	1.9	2.5	1.7
21	7.4	9.0	8.9	11	8.0	7.1	5.6	3.6	2.3	1.8	2.1	2.0
22	7.2	8.2	8.9	11	8.1	6.9	5.3	3.5	2.0	2.3	1.8	2.6
23	7.2	7.8	8.8	10	8.0	6.9	5.0	3.2	1.8	2.8	1.6	2.6
24	7.0	16	12	10	8.1	6.8	5.0	3.2	1.9	2.1	1.3	2.5
25	7.2	90	128	10	8.2	6.8	5.6	2.9	2.1	1.6	1.3	2.3
26	7.4	22	90	9.9	8.0	7.2	5.6	2.9	1.6	1.4	1.4	1.9
27	7.8	12	78	9.7	7.9	7.2	6.7	2.7	1.4	1.6	1.3	1.8
28	8.2	10	47	9.7	7.9	6.6	6.2	2.4	1.3	1.8	1.2	1.6
29	8.2	9.4	34	9.7	7.9	6.5	6.0	2.1	1.3	2.7	1.2	1.5
30	8.3	8.6	27	9.8	---	6.6	5.8	1.9	1.5	2.5	1.1	1.5
31	8.7	---	23	9.7	---	7.6	---	2.2	---	1.8	1.0	---
TOTAL	315.1	391.2	687.8	390.5	246.8	231.2	192.0	117.8	84.1	52.32	42.41	52.79
MEAN	10.2	13.0	22.2	12.6	8.51	7.46	6.40	3.80	2.80	1.69	1.37	1.76
MAX	52	90	128	21	9.8	9.7	9.4	6.0	4.3	4.1	2.5	3.1
MIN	7.0	6.2	8.2	9.7	7.9	6.5	5.0	1.9	1.3	.64	.87	.80
AC-FT	625	776	1360	775	490	459	381	234	167	104	84	105
CAL YR 1983	TOTAL	10940.50	MEAN	30.0	MAX	270	MIN	6.0	AC-FT	21700		
WTR YR 1984	TOTAL	2804.02	MEAN	7.66	MAX	128	MIN	.64	AC-FT	5560		

11056500 LITTLE SAN GORGONIO RIVER NEAR BEAUMONT, CA

LOCATION.--Lat 34°01'45", long 116°56'43", in NW 1/4 SW 1/4 NW 1/4 sec.1, T.2 S., R.1 W., San Bernardino County, Hydrologic Unit 18070203, on right bank at upstream side of bridge on Oak Glen Road, 3.0 mi upstream from Wallace Creek, and 7 mi north of Beaumont.

DRAINAGE AREA.--1.74 mi².

PERIOD OF RECORD.--October 1948 to current year.

REVISED RECORDS.--WDR-CA-79-1: 1969(M).

GAGE.--Water-stage recorder and V-notched concrete control. Altitude of gage is 4,320 ft, from topographic map. July 30, 1970 to Sept. 15, 1982, concrete control 20 ft downstream at same datum. Prior to July 30, 1970, at site 62 ft 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.--36 years, 0.67 ft³/s, 485 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,900 ft³/s Feb. 25, 1969, gage height, 8.50 ft, from flood-marks, on basis of slope-area measurement of peak flow; no flow for several months in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 20 ft³/s and maximum (*), from rating curve extended above 4.0 ft³/s on basis of slope-area measurement of peak flow at gage height 6.62 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 24	2245	24	5.01	July 8	1330	*520	6.62
Dec. 25	1745	32	5.10				

Minimum daily, 0.18 ft³/s July 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	2.2	1.3	1.5	1.4	1.1	1.2	.67	.35	.26	1.1	.50
2	1.9	1.9	1.3	1.4	1.4	1.1	.85	.69	.35	.25	1.0	.48
3	1.6	1.7	1.3	1.4	1.4	1.0	.87	.67	.38	.24	.88	.47
4	1.6	1.6	2.2	1.4	1.9	.93	.79	.60	.37	.22	.78	.46
5	1.7	1.5	2.2	1.5	2.2	1.1	.83	.59	.40	.20	.68	.45
6	1.4	1.5	2.3	1.4	2.3	1.2	.89	.62	.42	.18	.63	.45
7	2.4	1.5	1.4	1.4	2.2	1.0	.87	.57	.42	.18	.60	.45
8	3.4	1.5	1.4	1.4	2.2	.93	.83	.56	.40	.42	.58	.45
9	3.2	1.2	1.4	1.4	2.0	.93	.83	.53	.39	8.0	.56	.48
10	2.5	1.2	1.5	1.4	1.7	.95	.81	.51	.37	5.0	.56	.46
11	2.3	1.1	1.4	1.4	2.2	.94	.80	.52	.37	3.5	.56	.50
12	2.0	1.6	1.5	1.5	1.8	.85	.76	.51	.37	3.0	.54	.48
13	1.8	1.3	1.4	1.5	1.5	.95	.73	.54	.37	5.0	.54	.45
14	1.5	1.2	1.4	1.9	1.5	1.0	.69	.54	.37	3.5	.80	.45
15	1.5	1.3	1.5	2.0	1.4	.95	.70	.59	.38	3.0	.60	.47
16	1.5	1.9	1.5	1.7	1.4	.91	.73	.56	.38	3.0	.56	.45
17	1.6	2.3	1.5	1.5	1.4	.91	.73	.54	.36	3.0	.60	.44
18	1.5	2.1	1.5	1.4	1.4	.97	.70	.49	.35	2.9	.56	.44
19	1.5	1.9	1.5	1.4	1.3	.91	.86	.47	.35	2.8	.56	.43
20	1.5	2.2	1.5	1.4	1.4	.85	.79	.46	.36	2.5	.56	.43
21	1.5	2.0	1.5	1.4	1.3	.74	.72	.46	.37	2.2	.54	.43
22	1.5	2.0	1.5	1.4	1.3	.70	.69	.44	.35	2.0	.54	.43
23	1.4	1.9	1.4	1.4	1.3	.70	.68	.43	.35	1.8	.52	.42
24	1.4	2.6	1.3	1.4	1.3	.70	.68	.42	.41	1.6	.52	.42
25	1.4	2.6	8.4	1.4	1.4	.70	.68	.40	.37	1.4	.52	.42
26	1.4	1.6	5.2	1.5	1.3	.70	.70	.40	.34	2.5	.52	.41
27	1.5	1.5	3.5	1.5	1.2	.68	.74	.40	.31	1.6	.50	.41
28	1.4	1.5	1.9	1.5	1.1	.67	.73	.39	.29	1.8	.50	.41
29	1.4	1.4	1.7	1.5	1.1	.66	.69	.38	.29	1.4	.50	.41
30	1.4	1.4	1.5	1.5	---	.67	.67	.38	.28	1.2	.50	.41
31	1.5	---	1.5	1.5	---	.73	---	.36	---	1.1	.50	---
TOTAL	55.0	51.2	60.4	45.9	45.3	27.13	23.24	15.69	10.87	107.33	18.91	13.36
MEAN	1.77	1.71	1.95	1.48	1.56	.88	.77	.51	.36	3.46	.61	.45
MAX	3.4	2.6	8.4	2.0	2.3	1.2	1.2	.69	.42	.42	1.1	.50
MIN	1.4	1.1	1.3	1.4	1.1	.66	.67	.36	.28	.18	.50	.41
AC-FT	109	102	120	91	90	54	46	31	22	213	38	26
CAL YR 1983	TOTAL	725.66	MEAN	2.0	MAX	12	MIN	.65	AC-FT	1440		
WTR YR 1984	TOTAL	474.33	MEAN	1.30	MAX	42	MIN	.18	AC-FT	941		

SANTA ANA RIVER BASIN

11057500 SAN TIMOTEO CREEK NEAR LOMA LINDA, CA

LOCATION.--Lat 34°03'46", long 117°16'16", in SE 1/4 NE 1/4 NW 1/4 sec.26, T.1 S., R.4 W., San Bernardino County, Hydrologic Unit 18070203, on left bank 200 ft upstream of Redlands Boulevard bridge, and 0.6 mi northwest of Loma Linda.

DRAINAGE AREA.--125 mi².

PERIOD OF RECORD.--October 1954 to September 1965, February 1968 to October 1973, April 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,030 ft, from topographic map. Prior to April 1979, water-stage recorders at site 0.2 mi downstream at different datum.

REMARKS.--Records poor. No regulation above station. Natural flow affected by pumping and return flow from irrigated areas.

AVERAGE DISCHARGE.--21 years (1955-65, 1969-73, 1980-84), 2.92 ft³/s, 2,120 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,000 ft³/s Feb. 25, 1969, gage height, 8.2 ft from floodmark, from rating curve extended above 2,100 ft³/s on basis of slope-conveyance study of peak flow, at site and datum then in use; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 328 ft³/s Dec. 25, gage height, 4.02 ft, no other peak above base of 150 ft³/s; minimum daily, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	.52	1.1	.16	.64	0	1.1	.55	.91	0	.10	.01
2	.95	.78	1.2	.16	.80	.96	1.7	1.6	1.1	.39	.92	.01
3	1.6	1.4	8.7	.16	.88	.75	.99	1.1	.98	.23	.90	.09
4	1.9	.39	2.2	.16	1.2	0	.22	.89	.16	.01	.13	.01
5	2.0	1.4	2.5	.14	1.2	.66	.83	.40	.73	0	.15	.01
6	3.2	1.4	4.3	.02	1.1	1.2	1.7	.75	.80	.68	.70	.01
7	4.4	1.1	2.8	.01	.67	.35	1.5	.56	1.2	.23	.48	.01
8	3.0	1.2	3.5	.02	.76	.16	.66	.24	.72	.15	.48	.01
9	2.5	1.5	3.5	.04	.92	.05	.45	.02	.56	.09	.52	.24
10	2.8	.98	3.2	.01	.51	.08	.26	.11	.08	0	0	.03
11	3.1	5.6	3.0	.06	1.1	.29	1.4	.23	.82	.10	.27	.01
12	2.7	11	2.0	.36	2.1	.58	1.0	1.1	1.1	.20	1.9	.01
13	2.1	2.9	.72	.12	1.3	.56	.66	1.1	.91	.45	1.6	.01
14	2.1	2.2	1.8	.45	.61	.72	1.2	1.8	1.1	1.3	.64	.01
15	1.7	2.1	.30	.24	.14	.73	1.4	1.0	1.2	5.3	3.9	.14
16	2.9	2.4	.01	.64	2.5	1.5	1.1	1.4	1.7	1.7	2.7	.85
17	4.8	1.4	0	.31	1.4	1.7	1.0	2.1	2.8	1.6	3.6	.74
18	2.2	3.5	0	0	.47	1.7	.41	.92	1.2	1.4	1.2	.62
19	.33	.05	.04	0	0	.90	.93	.33	.09	.94	.84	.07
20	.06	4.4	.02	.14	.23	.15	.37	.10	0	.09	.02	.54
21	.35	2.4	0	.47	.79	.04	.29	.82	.32	.43	.06	.34
22	.75	2.7	.06	.65	0	.10	.58	.93	.59	.27	.50	.31
23	.75	2.2	.27	.08	0	.25	.30	.42	.26	.17	.26	.07
24	.05	13	18	1.8	0	.12	.07	.19	0	.02	.02	.24
25	.02	20	100	2.3	.10	.56	.47	0	0	0	.01	.04
26	0	1.8	6.0	1.1	.01	.58	.42	0	0	0	.01	.04
27	0	.75	4.4	.73	0	0	.23	0	0	0	.02	.04
28	.05	.75	.80	.54	0	0	.49	0	0	.16	.01	.11
29	.39	1.2	.33	.32	0	.37	.67	0	0	.83	.02	.23
30	.78	.99	.19	.35	---	1.2	.82	0	0	.49	.01	.16
31	.68	---	.11	.14	---	1.6	---	.11	---	.06	.01	---
TOTAL	66.16	92.01	171.05	11.68	19.43	17.86	23.22	18.77	19.33	17.29	21.98	5.01
MEAN	2.13	3.07	5.52	.38	.67	.58	.77	.61	.64	.56	.71	.17
MAX	18	20	100	2.3	2.5	1.7	1.7	2.1	2.8	5.3	3.9	.85
MIN	0	.05	0	0	0	0	.07	0	0	0	0	.01
AC-FT	131	183	339	23	39	35	46	37	38	34	44	9.9

CAL YR 1983 TOTAL 2482.29 MEAN 6.80 MAX 550 MIN 0 AC-FT 4920
WTR YR 1984 TOTAL 483.79 MEAN 1.32 MAX 100 MIN 0 AC-FT 960

11058500 EAST TWIN CREEK NEAR ARROWHEAD SPRINGS, CA

LOCATION.--Lat 34°10'45", long 117°15'53", in NW 1/4 NE 1/4 NE 1/4 sec.14, T.1 N., R.4 W., San Bernardino County, Hydrologic Unit 18070203, on right bank 1000 ft upstream from Del Rosa Water Co.'s diversion, 0.5 mi south of Arrowhead Springs, and 1.0 mi downstream from Strawberry Creek.

DRAINAGE AREA.--8.80 mi².

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, 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.--64 years (water years 1921-84), 4.98 ft³/s, 3,610 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,710 ft³/s Jan. 29, 1980, gage height, 8.35 ft, on basis of slope-area measurement of peak flow; no flow at times in 1929, 1931-35.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 40 ft³/s and maximum (*), from rating curve extended above 120 ft³/s on basis of slope-area measurement at gage height 8.35 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	0815	*231	3.77	Dec. 3	1730	45	2.92
Nov. 1	2115	45	2.90	Dec. 25	1545	219	3.74
Nov. 25	0045	143	3.46				

Minimum daily, 0.77 ft³/s Sept. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	9.2	6.4	19	7.0	6.7	7.2	3.0	1.6	1.9	1.0	1.1
2	27	3.8	5.8	15	6.9	6.2	5.7	3.1	2.2	1.7	1.1	1.0
3	16	4.9	15	12	6.8	6.0	5.1	2.9	3.0	1.7	1.1	1.0
4	8.5	5.1	24	12	6.8	5.9	5.2	2.6	2.8	1.7	1.0	.92
5	11	5.4	14	11	6.7	6.0	5.2	2.6	4.4	1.8	.99	.80
6	18	5.3	9.6	11	6.6	5.6	5.9	2.6	4.1	1.7	1.0	.77
7	13	4.9	7.0	11	6.4	5.3	4.9	2.5	3.7	1.6	1.3	.88
8	13	4.5	5.6	10	6.4	5.2	4.9	2.2	2.9	1.6	.93	.89
9	14	4.6	7.2	10	6.2	5.0	4.6	2.2	2.4	1.5	1.0	1.1
10	18	5.1	8.7	10	6.8	4.7	4.5	2.3	2.3	1.5	1.0	1.7
11	14	9.0	8.0	10	6.6	4.6	4.6	2.2	2.2	1.7	.88	2.8
12	11	21	7.1	19	6.4	4.4	3.9	2.2	2.4	1.5	.91	2.3
13	9.5	14	6.9	10	6.1	3.9	2.9	2.2	2.5	1.7	.88	1.8
14	8.3	9.3	5.8	9.8	6.2	9.1	2.8	2.3	2.5	2.4	.91	1.3
15	9.0	7.5	6.5	9.6	5.7	8.4	2.6	2.9	2.8	5.6	1.7	1.2
16	8.5	8.8	6.0	9.4	8.1	7.4	2.1	3.1	2.7	4.0	1.1	1.6
17	8.4	11	6.0	9.0	6.4	6.7	2.4	2.8	2.4	2.7	.98	1.4
18	7.8	16	6.4	9.8	5.7	5.8	2.2	2.6	2.1	2.4	1.7	1.1
19	7.0	9.2	6.0	8.4	5.6	5.0	3.9	2.4	2.0	2.4	1.9	1.1
20	6.0	8.7	6.0	8.0	5.3	4.7	2.7	2.4	1.8	1.8	1.9	.94
21	5.7	7.1	6.0	8.0	5.6	5.2	2.5	2.5	1.7	1.6	1.6	1.3
22	6.1	6.6	6.0	7.8	5.3	4.8	2.1	2.3	2.0	2.1	1.3	1.8
23	5.6	6.1	6.0	7.6	5.5	4.4	2.0	2.2	2.4	2.2	1.2	2.1
24	5.6	15	8.6	7.5	5.7	4.8	2.0	2.3	3.1	1.7	1.1	1.9
25	5.5	41	79	7.5	6.3	5.0	2.6	2.1	2.7	1.4	1.0	1.3
26	5.3	23	72	7.4	6.3	6.5	2.7	2.0	2.1	1.3	1.1	1.3
27	5.5	18	78	7.3	6.2	5.5	3.2	1.9	1.5	1.3	.96	1.1
28	5.4	13	43	7.2	6.4	4.5	3.6	1.7	1.4	1.5	1.0	.99
29	5.6	9.8	32	7.2	6.4	4.5	3.3	1.4	1.8	1.8	.91	1.0
30	5.5	8.1	26	7.1	---	4.6	3.2	1.5	1.8	1.6	.99	1.1
31	6.2	---	22	7.0	---	7.2	---	1.5	---	1.1	1.1	---
TOTAL	352.0	320.0	547.6	295.6	182.4	173.6	110.5	72.5	73.3	60.5	35.54	39.59
MEAN	11.4	10.7	17.7	9.54	6.29	5.60	3.68	2.34	2.44	1.95	1.15	1.32
MAX	62	41	79	19	8.1	9.1	7.2	3.1	4.4	5.6	1.9	2.8
MIN	5.3	4.5	5.6	7.0	5.3	3.9	2.0	1.4	1.4	1.1	.88	.77
AC-FT	698	635	1090	586	362	344	219	144	145	120	70	79

CAL YR 1983	TOTAL	6694.40	MEAN	18.3	MAX	240	MIN	3.60	AC-FT	13280
WTR YR 1984	TOTAL	2263.13	MEAN	6.18	MAX	79	MIN	.77	AC-FT	4490

SANTA ANA RIVER BASIN

11058600 WATERMAN CANYON CREEK NEAR ARROWHEAD SPRINGS, CA

LOCATION.--Lat 34°11'36", long 117°16'25", in NE 1/4 NW 1/4 NW 1/4 sec.11, T.1 N., R.4 W., San Bernardino County, Hydrologic Unit 18070203, on left bank 0.8 mi northwest of Arrowhead Springs, and 1.3 mi north of San Bernardino National Forest boundary.

DRAINAGE AREA.--4.65 mi².

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 National Geodetic Vertical Datum of 1929. Prior to December 1919, nonrecording gage at site 300 ft downstream at different datum.

REMARKS.--Records good except for periods of no gage-height record, which are poor. Periods of no gage-height record due to vandalism. No regulation above station. One small diversion for domestic use above station. See schematic diagram of Santa Ana River basin.

AVERAGE DISCHARGE.--66 years (water years 1913-14, 1921-84), 2.88 ft³/s, 2,090 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD (SINCE 1920).--Maximum discharge, 2,350 ft³/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 and maximum (*); peak above base probably occurred Oct. 1, discharge unknown:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 25	Unknown	76	2.87	Dec. 25	1645	*112	3.08

Minimum daily, 0.40 ft³/s Sept. 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	4.5	4.1	9.4	4.0	3.0	4.0	1.5	.86	.94	.50	.54
2	16	4.6	3.9	8.5	3.9	3.0	3.1	1.5	1.2	.86	.54	.52
3	8.4	2.9	7.0	7.5	3.7	3.0	2.8	1.4	1.5	.86	.54	.52
4	4.5	2.6	5.5	6.9	3.6	3.0	3.1	1.3	1.4	.86	.52	.45
5	5.4	2.8	4.7	6.7	3.5	3.0	3.1	1.3	2.2	.90	.50	.40
6	9.2	2.7	4.4	6.5	3.5	3.0	3.7	1.3	2.0	.88	.52	.40
7	6.8	2.6	4.2	6.5	3.6	3.0	3.2	1.2	1.9	.82	.64	.45
8	6.9	2.3	4.0	6.5	3.6	2.9	2.7	1.1	1.4	.82	.50	.45
9	7.2	2.4	3.9	6.1	3.6	2.9	2.5	1.1	1.2	.78	.50	.53
10	9.0	2.5	3.7	5.9	3.6	2.8	2.5	1.2	1.2	.78	.50	.86
11	7.3	4.5	3.6	5.9	3.6	2.8	2.4	1.1	1.1	.86	.45	1.4
12	5.8	11	3.3	6.0	3.4	2.8	1.9	1.1	1.2	.78	.45	1.1
13	4.9	7.8	3.1	6.1	3.3	2.8	1.5	1.2	1.3	.88	.45	.92
14	4.3	5.2	3.0	6.1	3.3	4.3	1.4	1.3	1.3	1.3	.45	.68
15	4.6	4.0	2.9	5.9	3.3	3.1	1.2	1.4	1.4	2.8	.84	.62
16	4.5	4.5	2.9	5.8	4.3	2.9	1.1	1.5	1.4	2.0	.56	.80
17	4.3	5.4	2.9	5.7	3.4	3.0	1.2	1.4	1.2	1.4	.52	.70
18	4.1	8.2	2.9	5.7	3.2	2.9	1.1	1.3	1.1	1.3	.86	.60
19	3.7	6.0	2.9	5.7	3.1	2.9	2.0	1.2	1.0	1.1	.94	.55
20	3.1	4.5	2.9	5.3	3.0	2.9	1.5	1.3	.94	.90	.96	.49
21	3.0	3.6	2.9	5.2	3.0	2.9	1.3	1.3	.86	.82	.80	.60
22	3.1	3.4	2.8	5.0	3.1	2.9	1.1	1.2	1.0	1.1	.68	.82
23	2.9	3.2	2.9	4.9	3.2	2.8	1.0	1.1	1.2	1.1	.62	1.0
24	2.9	6.4	3.7	4.8	3.1	2.7	1.0	1.2	1.5	.78	.55	.90
25	2.9	20	29	4.7	3.1	2.7	1.3	1.1	1.3	.68	.51	.66
26	2.8	14	24	4.4	3.1	3.4	1.4	1.0	1.1	.66	.55	.66
27	2.8	10	26	4.5	3.1	3.1	1.6	.94	.80	.68	.50	.60
28	2.8	7.2	17	4.2	3.1	2.9	1.8	.84	.70	.78	.50	.52
29	2.9	5.0	13	4.0	3.0	2.9	1.7	.72	.90	.88	.46	.50
30	2.8	4.0	11	4.0	---	2.8	1.6	.76	.90	.74	.51	.55
31	3.1	---	9.8	4.1	---	4.3	---	.76	---	.54	.55	---
TOTAL	184.0	167.8	217.9	178.5	98.3	93.4	59.8	36.62	37.06	30.58	17.97	19.79
MEAN	5.94	5.59	7.03	5.76	3.39	3.01	1.99	1.18	1.24	.99	.58	.66
MAX	32	20	29	9.4	4.3	4.3	4.0	1.5	2.2	2.8	.96	1.4
MIN	2.8	2.3	2.8	4.0	3.0	2.7	1.0	.72	.70	.54	.45	.40
AC-FT	365	333	432	354	195	185	119	73	74	61	36	39

CAL YR 1983 TOTAL 3799.0 MEAN 10.4 MAX 93 MIN 2.2 AC-FT 7540
WTR YR 1984 TOTAL 1141.72 MEAN 3.12 MAX 32 MIN .40 AC-FT 2260

NOTE.--No gage-height record Oct. 1 to Nov. 30, Apr. 6 to Sept. 30.

11059300 SANTA ANA RIVER AT E STREET, NEAR SAN BERNARDINO, CA

LOCATION.--Lat 34°03'54", long 117°17'58", in San Bernardino Grant, San Bernardino County, Hydrologic Unit 18070203, 0.4 mi downstream from E Street bridge, 1.2 mi downstream from San Timoteo Creek, 0.4 mi upstream from Warm Creek, 2.8 mi south of San Bernardino, and 26 mi downstream from Big Bear Lake.

DRAINAGE AREA.--541 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1939 to September 1954, October 1966 to current year.

REVISED RECORDS.--WRD CA-83-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 940 ft, from topographic map. Prior to Nov. 10, 1950, water-stage recorder on right bank 0.4 mi upstream at datum 964.50 ft National Geodetic Vertical Datum of 1929. Nov. 11, 1950 to Sept. 30, 1954, water-stage recorder on both banks 0.4 mi upstream at datum 964.50 ft NGVD. Oct. 1, 1966 to Sept. 30, 1976, water-stage recorder on right bank 0.4 mi upstream at datum 954.50 ft NGVD. Oct. 1, 1976 to Sept. 30, 1977, gage was removed for channel construction. Oct. 1, 1977 to Jan. 28, 1981, water-stage recorder on right bank 0.5 mi upstream at altitude 950 ft, from topographic map.

REMARKS.--Records poor. Flow partly regulated by Big Bear Lake (station 11049000). Natural flow of stream affected by ground-water withdrawals and diversion for domestic use and irrigation above station. Effluent from sewage reclamation plant 1.0 mi upstream has caused sustained flow past gage since 1967. See schematic diagram of Santa Ana River basin.

AVERAGE DISCHARGE.--15 years (water years 1940-54), 12.5 ft³/s, 9,050 acre-ft/yr;
18 years (water years 1967-84), 104 ft³/s, 75,350 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,000 ft³/s Feb. 25, 1969, gage height, 11.9 ft, site and datum then in use; maximum gage height, 16.50 ft, Jan. 23, 1943, site and datum then in use, discharge uncertain, but was probably less than 8,000 ft³/s; no flow many days prior to 1967.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	0700	2,700	4.55	Dec. 25	1900	*5,230	4.84
Nov. 24	2400	3,540	4.65				

Minimum daily, 26 ft³/s Sept. 25-27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	842	72	123	170	68	38	67	56	43	49	60	40
2	200	77	104	189	77	40	60	56	43	49	49	40
3	152	82	222	138	77	43	56	56	43	49	46	40
4	94	77	300	98	49	40	56	56	43	54	46	39
5	94	77	189	77	72	38	56	52	43	78	46	39
6	94	82	110	77	64	38	56	52	52	68	46	39
7	88	94	60	77	56	38	60	52	52	56	46	39
8	77	82	82	82	60	49	56	49	49	52	46	37
9	77	82	82	82	60	43	52	46	46	49	46	36
10	67	113	82	77	56	43	50	46	43	48	66	45
11	82	152	77	77	43	49	48	46	46	48	56	45
12	88	562	87	77	52	52	46	46	43	46	49	44
13	100	339	98	72	56	46	46	46	43	86	49	44
14	113	245	82	87	52	64	46	46	46	58	49	44
15	94	152	72	98	46	43	43	46	46	68	49	44
16	72	113	64	98	64	46	46	46	49	52	49	44
17	62	106	64	87	43	43	43	43	49	54	48	44
18	82	200	64	68	40	43	40	43	49	98	54	43
19	106	113	72	68	46	46	56	43	46	76	250	38
20	77	189	72	72	46	46	52	43	43	50	120	33
21	72	302	60	68	49	52	52	43	46	48	54	35
22	100	200	56	72	46	49	49	43	46	47	50	33
23	113	189	43	72	40	49	49	40	43	46	47	30
24	113	387	149	77	40	52	52	40	43	46	46	28
25	113	686	2380	72	40	52	52	40	43	45	45	26
26	100	300	1220	77	28	52	52	40	43	46	45	26
27	82	189	880	98	28	56	49	40	46	46	45	26
28	67	211	448	92	35	68	52	40	49	62	45	28
29	82	153	333	68	38	64	52	43	52	200	44	28
30	77	104	246	68	---	64	56	43	49	87	42	30
31	62	---	222	68	---	68	---	43	---	68	40	---
TOTAL	3642	5730	8143	2703	1471	1514	1550	1424	1377	1929	1773	1107
MEAN	117	191	263	87.2	50.7	48.8	51.7	45.9	45.9	62.2	57.2	36.9
MAX	842	686	2380	189	77	68	67	56	52	200	250	45
MIN	62	72	43	68	28	38	40	40	43	45	40	26
AC-FT	7220	11370	16150	5360	2920	3000	3070	2820	2730	3830	3520	2200

CAL YR 1983	TOTAL	125421	MEAN	344	MAX	4150	MIN	43	AC-FT	248770
WTR YR 1984	TOTAL	32363	MEAN	88.4	MAX	2380	MIN	26	AC-FT	64190

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1983 to current year.
 WATER TEMPERATURES: November 1982 to current year.
 SEDIMENT RECORDS: Water years 1983 to current year.

PERIOD OF DAILY RECORD.--
 WATER TEMPERATURES: November 1982 to September 1983.
 SEDIMENT RECORDS: October 1982 to September 1983.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
DEC 27...	1245	662	13.5	1430	2560	8	11	15
MAR 16...	1200	77	23.5	44	9.1	--	--	--
JUL 30...	0955	--	--	--	--	--	25	31
SEP 17...	1235	58	29.5	217	34	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM
DEC 27...	20	27	40	62	85	98	100
MAR 16...	--	--	32	--	--	--	--
JUL 30...	39	49	59	66	81	97	100
SEP 17...	--	--	98	98	100	--	--

PERIODIC DETERMINATIONS OF SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT					
01...	1515	1380	18.0	5090	19000
02...	1300	152	20.0	324	133
03...	1415	113	24.0	213	65
04...	1115	103	25.5	101	28
05...	1415	100	22.0	257	69
06...	1700	82	23.0	33	7.3
07...	1335	88	25.0	56	13
08...	1645	77	22.0	83	17
10...	1700	62	22.0	59	9.9
12...	1800	88	21.0	89	21
13...	1800	113	20.0	80	24
14...	1330	113	22.0	57	17
17...	1650	62	20.0	112	19
18...	1330	88	22.0	61	14
19...	1645	113	21.0	44	13
20...	1700	67	20.0	66	12
21...	1445	72	22.0	34	6.6
24...	1645	113	19.0	48	15
25...	1820	113	18.0	41	13
26...	1745	94	20.0	19	4.8
27...	1815	82	20.0	17	3.8
28...	1410	62	25.0	8	1.3
29...	1420	88	22.0	18	4.3
30...	1215	82	22.0	14	3.1
NOV					
01...	1400	82	20.0	19	4.2
04...	1430	77	20.0	18	3.7
07...	1630	94	20.0	16	4.1
08...	1710	88	19.0	8	1.9
09...	1445	67	20.5	110	20
09...	1650	94	19.0	18	4.6
10...	1500	120	19.0	27	8.7
11...	0840	127	15.0	15	5.1
12...	1510	578	17.0	1130	1760
14...	1640	200	22.0	54	29
15...	1335	143	20.0	150	58
16...	1700	120	19.0	14	4.5
17...	1330	127	22.0	21	7.2
18...	1315	222	23.0	40	24
19...	1115	161	22.0	22	9.6

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

PERIODIC DETERMINATIONS OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
NOV					
20...	1340	258	14.0	132	92
21...	1445	320	12.0	130	112
23...	1220	210	13.0	34	19
25...	1045	593	10.0	2460	3940
26...	1130	407	10.0	556	611
27...	1300	222	13.0	176	105
28...	1445	180	14.0	81	39
29...	1315	180	18.0	30	15
30...	1400	104	17.0	14	3.9
DEC					
01...	1645	110	15.0	42	12
02...	1450	222	16.0	52	31
05...	0800	285	4.0	118	91
06...	0745	161	4.0	103	45
08...	1330	82	17.0	32	7.1
09...	1300	110	16.0	39	12
09...	1700	92	13.5	186	46
11...	0930	72	10.0	40	7.8
12...	0740	46	12.0	52	6.5
13...	1345	104	12.0	58	16
15...	1330	92	16.0	16	4.0
17...	1200	68	16.0	12	2.2
18...	1045	64	14.0	14	2.4
19...	1400	92	15.0	17	4.2
20...	1330	87	16.0	11	2.6
21...	1335	78	18.0	7	1.5
22...	1240	64	18.0	10	1.7
23...	1015	43	14.0	9	1.0
24...	1005	60	13.0	10	1.6
27...	1245	662	13.5	1430	2560
28...	1345	285	11.0	503	387
29...	1340	246	12.0	308	205
30...	1340	271	12.0	299	219
31...	1015	258	14.0	184	128
JAN					
02...	1440	189	11.0	204	104
03...	1455	116	14.0	137	43
04...	0800	82	11.0	71	16
06...	1440	64	20.0	47	8.1
09...	1615	87	20.0	43	10
10...	1100	98	15.0	158	42
16...	1520	92	14.0	41	10
17...	0930	127	17.5	145	50
23...	1450	87	18.0	59	14
24...	0830	77	12.5	118	25
25...	0850	77	14.0	69	14
26...	0845	68	13.0	80	15
27...	0850	104	11.0	94	26
30...	0955	111	26.0	1520	456
FEB					
01...	1020	87	19.5	49	12
02...	1010	110	18.0	88	26
06...	1000	82	19.0	35	7.7
08...	0740	26	16.0	8	.56
14...	1010	92	--	12	3.0
17...	0935	64	16.5	26	4.5
21...	0935	43	17.5	42	4.9
21...	1030	68	19.0	40	7.3
22...	0850	46	18.5	22	2.7
23...	1505	49	21.5	21	2.8
24...	0930	40	20.0	64	6.9
25...	1145	68	20.5	34	6.2
27...	1430	46	21.5	12	1.5
28...	1315	49	22.0	15	2.0
29...	1355	52	21.0	12	1.7
MAR					
01...	1315	56	22.0	18	2.7
02...	1355	52	22.5	5	.70
05...	1435	52	21.5	55	7.7
06...	1255	52	22.0	16	2.2
07...	0845	40	18.0	26	2.8
08...	1400	60	23.0	16	2.6
09...	0950	64	20.5	17	2.9
10...	1205	64	21.5	24	4.1
12...	1430	66	22.5	9	1.7
13...	1330	64	23.5	17	2.9
14...	0815	30	19.5	11	.89
14...	1425	153	21.0	275	114
15...	1440	60	22.0	73	12
16...	0940	68	21.0	84	15

SANTA ANA RIVER BASIN

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

PERIODIC DETERMINATIONS OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
MAR					
16...	1200	77	23.5	44	9.1
17...	1255	72	23.0	23	4.5
19...	1440	64	23.0	38	6.6
20...	1300	60	24.0	8	1.3
21...	1320	64	24.0	6	1.0
22...	1430	56	24.0	6	.91
23...	0920	52	22.0	14	2.0
26...	1330	60	21.5	6	.97
27...	0815	38	19.0	20	2.1
28...	0835	60	19.0	21	3.4
29...	1430	77	22.0	24	5.0
30...	1420	77	23.0	10	2.1
APR					
02...	1345	60	23.5	10	1.6
03...	1455	64	24.0	22	3.8
04...	1350	52	22.0	6	.84
05...	0855	43	--	17	2.0
06...	0840	46	21.0	55	6.8
09...	1430	64	24.5	7	1.2
09...	1530	51	24.0	17	2.3
10...	1415	104	24.5	9	2.5
11...	1110	57	24.0	9	1.4
12...	1700	22	24.5	13	.77
13...	0835	49	22.5	28	3.7
16...	1200	68	25.0	11	2.0
17...	1410	56	22.0	7	1.1
18...	1300	60	24.5	5	.81
19...	1400	64	22.5	33	5.7
20...	1615	64	21.0	19	3.3
23...	1440	60	25.0	10	1.6
24...	1410	64	24.5	7	1.2
25...	1300	60	23.5	6	.97
26...	1540	52	22.5	5	.70
27...	1430	56	22.5	3	.45
30...	0830	34	19.0	13	1.2
MAY					
01...	1240	64	24.0	8	1.4
02...	0935	60	22.5	5	.81
03...	0835	40	21.5	13	1.4
04...	0945	68	24.0	12	2.2
07...	1130	64	24.5	54	9.3
08...	0925	60	24.5	6	.97
09...	0910	60	24.0	18	2.9
10...	0935	60	24.5	13	2.1
11...	1130	64	25.5	21	3.6
14...	1015	64	25.0	16	2.8
15...	0910	46	23.0	21	2.6
16...	1135	68	25.0	12	2.2
17...	0845	40	23.0	14	1.5
18...	0855	52	24.0	53	7.4
21...	0905	40	23.5	46	5.0
22...	0900	43	24.0	43	5.0
23...	1040	52	26.0	17	2.4
28...	1310	52	26.0	13	1.8
29...	1005	64	27.0	10	1.7
30...	1515	56	26.5	6	.91
31...	1550	52	27.5	8	1.1
JUN					
01...	0950	52	26.0	33	4.6
04...	0840	33	25.0	21	1.9
05...	1050	56	23.0	105	16
06...	1050	64	23.0	99	17
07...	1005	64	23.5	41	7.1
08...	1150	60	26.0	23	3.7
11...	0840	40	23.0	21	2.3
12...	1600	60	27.0	9	1.5
13...	0840	43	23.5	37	4.3
14...	1145	77	26.0	9	1.9
15...	0840	35	22.0	27	2.6
18...	1325	68	27.5	7	1.3
19...	1130	64	25.0	5	.86
20...	0730	19	23.5	23	1.2
21...	0800	21	23.0	13	.74
22...	0930	46	24.0	21	2.6
25...	0740	22	24.0	21	1.2
26...	0730	22	25.5	23	1.4
27...	1315	68	28.0	11	2.0
28...	0910	49	27.0	37	4.9
29...	0815	28	25.0	36	2.7
JUL					
02...	0730	24	24.0	34	2.2

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

PERIODIC DETERMINATIONS OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STRTFAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
JUL					
03...	1225	49	32.0	24	3.2
04...	0720	54	24.0	19	2.8
05...	0735	54	23.5	13	1.9
06...	0825	60	24.5	12	1.9
09...	1600	49	33.0	21	2.8
12...	1325	46	30.0	7	.87
13...	1100	46	28.0	22	2.7
16...	1415	52	29.5	68	9.5
17...	1600	52	28.0	353	50
19...	0750	60	23.5	5930	961
19...	0815	--	23.5	5160	--
19...	1145	--	27.5	2420	--
19...	1345	--	29.5	1920	--
19...	1545	--	30.0	1470	--
19...	1745	--	28.5	1240	--
19...	1945	--	27.0	1460	--
20...	1445	50	32.0	402	54
23...	1200	52	29.0	179	25
24...	1100	51	28.0	33	4.5
25...	1350	50	29.0	17	2.3
26...	1100	46	27.5	10	1.2
26...	1630	45	27.5	10	1.2
26...	1710	60	27.0	702	114
27...	0730	22	25.5	21	1.2
29...	1050	70	27.5	674	127
30...	0910	120	27.0	1960	635
30...	0955	111	26.0	1520	456
30...	1025	108	26.0	1370	399
31...	0925	74	26.0	1210	242
AUG					
01...	0905	61	26.5	243	40
02...	0910	49	26.5	168	22
03...	0900	46	27.0	55	6.8
06...	0920	46	26.5	42	5.2
07...	0900	46	26.5	33	4.1
08...	0910	46	26.5	38	4.7
09...	0915	46	27.0	27	3.4
10...	0905	50	27.0	17	2.3
13...	1405	56	28.0	26	3.9
14...	1015	49	27.5	46	6.1
16...	0900	49	26.0	40	5.3

SANTA ANA RIVER BASIN

11060400 WARM CREEK NEAR SAN BERNARDINO, CA

LOCATION.--Lat 34°04'42", long 117°17'58", in San Bernardino Grant, San Bernardino County, Hydrologic Unit 18070203, on left bank 0.2 mi downstream from State Highway 395 bridge, and 2.0 mi southeast of San Bernardino.

DRAINAGE AREA.--11.0 mi².

PERIOD OF RECORD.--February 1964 to September 1972, October 1974 to current year.

REVISED RECORDS.--WDR CA-83-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 960 ft, from topographic map. Prior to Oct. 1, 1974, at site 0.1 mi upstream at different datum.

REMARKS.--Records good. Natural channel prior to September 1972; concrete-lined channel October 1974 to current year. Possible regulation at high flows by flood control gates on Warm Creek Floodway, 3.0 mi upstream. 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, 1,170 acre-ft/yr; 10 years (water years 1975-84), 19.3 ft³/s, 13,980 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,000 ft³/s, estimated, Mar. 1, 1978, gage height unknown; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,180 ft³/s Oct. 1, gage height, 2.45 ft; minimum daily, 19 ft³/s Aug. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	209	26	27	25	30	25	23	24	25	23	21	23
2	22	23	27	25	30	24	23	25	25	23	21	25
3	21	23	71	28	30	23	23	25	23	23	21	24
4	37	23	25	29	32	24	23	25	22	23	21	24
5	22	23	26	29	32	25	23	25	21	23	21	25
6	22	23	25	31	31	24	26	25	22	23	21	25
7	23	23	25	30	32	24	25	24	23	23	21	24
8	23	23	27	29	31	25	25	25	23	23	21	24
9	24	23	27	29	32	25	25	25	23	23	21	25
10	24	23	27	28	32	25	25	25	23	23	21	25
11	23	56	27	27	32	25	27	25	23	23	21	26
12	26	56	27	27	32	25	27	25	23	23	21	26
13	27	25	28	28	32	25	27	25	23	23	21	27
14	27	22	29	25	32	41	27	25	23	23	21	27
15	27	23	28	25	32	25	27	26	23	32	23	27
16	29	23	28	29	58	25	27	26	23	21	21	28
17	29	27	29	23	29	25	28	26	23	21	20	25
18	30	43	29	25	28	25	27	26	23	21	20	27
19	31	23	29	25	27	25	46	26	23	21	21	25
20	31	40	29	24	28	26	25	25	23	22	20	26
21	30	23	29	25	30	25	24	25	23	22	19	28
22	30	23	29	25	31	24	23	24	23	21	20	25
23	28	25	29	24	30	23	23	24	23	22	21	25
24	27	162	71	24	29	25	23	25	23	23	21	25
25	27	56	114	25	29	25	24	25	23	23	21	25
26	26	25	36	25	28	27	25	25	23	23	20	26
27	25	25	41	23	27	25	25	25	23	23	20	23
28	26	25	25	25	27	25	25	25	23	27	20	23
29	27	25	25	27	26	25	24	25	23	23	21	23
30	25	25	25	27	---	24	25	25	23	22	21	23
31	25	---	25	29	---	28	---	25	---	21	22	---
TOTAL	1003	985	1039	820	899	787	770	776	690	710	645	754
MEAN	32.4	32.8	33.5	26.5	31.0	25.4	25.7	25.0	23.0	22.9	20.8	25.1
MAX	209	162	114	31	58	41	46	26	25	32	23	28
MIN	21	22	25	23	26	23	23	24	21	21	19	23
AC-FT	1990	1950	2060	1630	1780	1560	1530	1540	1370	1410	1280	1500
CAL YR 1983	TOTAL	12425	MEAN	34.0	MAX	677	MIN	5.8	AC-FT	24640		
WTR YR 1984	TOTAL	9878	MEAN	27.0	MAX	209	MIN	19	AC-FT	19590		

11062000 LYTLE CREEK NEAR FONTANA, CA

LOCATION.--Lat 34°12'44", long 117°27'26", in SE 1/4 NW 1/4 SE 1/4 sec.36, T.2 N., R.6 W., San Bernardino County, Hydrologic Unit 18070203, on right bank 75 ft upstream from highway culvert crossing, 0.7 mi upstream from right tributary, 2.3 mi downstream from Lytle Creek conduit, and 8 mi north of Fontana.

DRAINAGE AREA.--46.6 mi².

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.

REVISED RECORDS.--WDR CA-83-1: Drainage area.

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, from topographic map. October 1918 to Mar. 21, 1938, at site 1 mi downstream at different datum. Mar. 22, 1938 to Nov. 20, 1963, at site 75 ft downstream at datum 4.58 ft lower. Sharp-crested weirs at different datum.

REMARKS.--Records, creek only, fair; combined creek and diversion, fair. No regulation above station. Southern California Edison Company's Lytle Creek conduit diverts 2.3 mi upstream for power development, and Fontana Union Water Company 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: 66 years, 18.8 ft³/s, 13,600 acre-ft/yr.

Combined creek and diversions: 81 years (water years 1899, 1905-84), 46.0 ft³/s, 33,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Creek only: Maximum discharge, 35,900 ft³/s Jan. 25, 1969, gage height, 15.0 ft, from floodmark, from rating curve extended above 570 ft³/s on basis of slope-area measurements at gage heights 10.78 ft and 15.0 ft; no flow at times most years.

Combined creek and diversions: Maximum discharge, 35,900 ft³/s Jan. 25, 1969; minimum daily, 0.12 ft³/s June 21, 22, 1976.

EXTREMES FOR CURRENT YEAR.--Creek only: Peak discharges above base of 300 ft³/s and maximum (*), from rating curve extended above 120 ft³/s on basis of slope-area measurement at gage height 10.60 ft:

Date	Time	Creek only Discharge (ft ³ /s)	Gage height (ft)	Combined Creek and Diversions Discharge (ft ³ /s)
Dec. 25	0730	*420	5.29	*420

Creek only: No flow Sept. 22-30.

Combined creek and diversions: Minimum daily, 18 ft³/s Sept. 19, 20, 27-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121	32	35	42	22	16	13	8.4	4.7	3.1	2.5	2.8
2	103	32	33	41	22	16	12	8.5	4.7	2.6	1.1	2.8
3	81	31	71	37	21	14	12	8.0	4.8	1.7	1.1	2.4
4	64	31	41	36	21	14	12	7.6	4.8	1.0	.86	1.2
5	62	31	35	36	20	14	12	7.3	4.9	.60	.77	.34
6	58	30	33	35	19	14	13	6.7	5.0	.60	.63	.02
7	58	30	33	35	20	14	12	6.4	5.0	.60	.64	.20
8	53	30	32	34	21	14	12	6.3	4.9	.60	.62	.20
9	51	30	32	35	21	14	12	6.3	4.7	.60	.31	.20
10	49	29	31	35	21	14	11	6.4	4.6	.60	.33	.28
11	46	35	34	34	21	13	11	9.0	4.5	.60	.55	.52
12	44	43	32	34	21	13	11	6.7	4.7	.60	.60	.56
13	43	35	29	35	21	14	9.9	6.5	4.7	.60	.60	.49
14	42	33	28	34	20	14	9.4	6.5	4.7	.60	5.0	.34
15	42	32	28	32	20	14	8.6	6.7	4.7	.80	24	.23
16	40	32	28	32	21	14	8.3	6.5	4.5	.80	18	.22
17	40	32	28	32	21	13	8.3	6.5	4.3	.60	7.5	.29
18	39	31	28	32	21	13	8.2	6.3	4.2	.60	7.0	.17
19	38	30	28	31	20	13	10	6.1	4.2	.60	6.9	.20
20	38	30	28	30	19	13	9.3	6.0	4.3	.60	6.9	.18
21	37	29	28	29	19	13	9.2	6.1	4.2	.60	6.0	.12
22	37	29	28	29	19	13	8.6	5.8	4.0	.60	5.2	0
23	36	29	28	27	19	13	7.9	5.7	3.9	.60	4.7	0
24	36	53	28	26	18	13	8.1	6.1	4.2	.60	4.1	0
25	35	99	195	26	18	12	8.2	5.5	4.0	.70	3.8	0
26	35	65	117	27	18	13	8.4	5.4	3.6	.80	3.4	0
27	34	50	100	27	19	12	8.8	4.8	3.4	1.0	3.5	0
28	34	44	74	26	17	12	8.7	4.2	3.2	1.3	3.4	0
29	33	40	57	24	16	12	8.6	4.5	3.2	2.0	3.1	0
30	33	37	52	24	---	12	8.3	4.8	3.2	16	2.9	0
31	32	---	46	23	---	13	---	4.7	---	9.0	2.9	---
TOTAL	1494	1114	1420	980	576	416	299.8	196.3	129.8	51.60	128.91	13.76
MEAN	48.2	37.1	45.8	31.6	19.9	13.4	9.99	6.33	4.33	1.66	4.16	.46
MAX	121	99	195	42	22	16	13	9.0	5.0	16	24	2.8
MIN	32	29	28	23	16	12	7.9	4.2	3.2	.60	.31	0
AC-FT	2960	2210	2820	1940	1140	825	595	389	257	102	256	27

CAL YR 1983 TOTAL 42160 MEAN 116 MAX 1530 MIN 16 AC-FT 83620
WTR YR 1984 TOTAL 6820.17 MEAN 18.6 MAX 195 MIN 0 AC-FT 13530

SANTA ANA RIVER BASIN

11062001 LYTLE CREEK NEAR FONTANA, CA--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF LYTLE CREEK,
SOUTHERN CALIFORNIA PRISON CO.'S LYTLE CREEK CONDUIT, AND FONTANA UNION WATER
CO.'S INFILTRATION LINE, NEAR FONTANA, CA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	57	60	69	43	41	39	33	31	29	26	22
2	108	58	59	65	44	43	38	34	31	28	24	22
3	90	56	91	61	45	45	37	34	31	27	24	21
4	88	56	57	60	47	44	37	34	31	26	24	20
5	88	56	62	60	46	44	37	33	30	26	24	19
6	83	56	60	59	46	43	39	33	30	26	24	19
7	84	55	59	60	46	41	37	32	30	26	24	19
8	79	55	57	59	46	41	38	33	31	26	24	19
9	77	56	56	61	46	41	37	33	31	26	23	19
10	75	55	55	61	47	41	36	33	31	26	23	19
11	72	60	59	60	46	41	36	31	31	26	24	20
12	70	69	55	60	46	41	35	34	30	26	23	20
13	69	61	51	61	46	40	34	34	30	25	22	19
14	68	58	51	60	45	39	33	34	30	24	25	19
15	68	57	51	58	45	40	33	33	30	23	31	19
16	66	57	51	58	47	40	33	33	30	24	28	19
17	66	58	51	58	47	39	33	33	29	25	28	19
18	65	55	53	57	46	38	33	32	30	25	27	19
19	64	55	52	56	45	37	36	32	30	25	27	18
20	64	55	52	55	43	35	34	32	29	23	27	18
21	63	55	51	54	43	36	34	32	29	21	25	19
22	63	55	52	54	43	35	34	33	29	21	24	19
23	62	55	52	53	43	33	33	33	29	20	24	19
24	62	77	49	51	43	33	34	33	29	21	23	19
25	60	104	200	51	44	39	34	33	29	20	23	19
26	61	81	122	52	44	39	33	32	29	20	22	19
27	59	76	105	50	44	39	35	32	28	20	23	18
28	58	70	90	49	41	38	35	31	28	21	22	18
29	56	64	84	46	41	38	34	32	29	20	22	18
30	57	61	79	47	---	38	33	31	29	23	22	18
31	57	---	73	44	---	39	---	31	---	23	22	---
TOTAL	2229	1843	2099	1749	1298	1221	1054	1013	894	742	754	575
MEAN	71.9	61.4	67.7	56.4	44.8	39.4	35.1	32.7	29.3	23.9	24.3	19.2
MAX	127	104	200	69	47	45	39	34	31	29	31	22
MIN	56	55	49	44	41	33	33	31	28	20	22	18
AC-FT	4420	3660	4160	3470	2570	2420	2090	2010	1770	1470	1500	1140
CAL YR 1983	TOTAL	50603	MEAN 139	MAX 1530	MIN 41	AC-FT 100300						
WTR YR 1984	TOTAL	15471	MEAN 42.3	MAX 200	MIN 18	AC-FT 10690						

11063500 LONE PINE CREEK NEAR KEENBROOK, CA

LOCATION.--Lat 34°15'59", long 117°27'47", in SE 1/4 SE 1/4 SW 1/4 sec.12, T.2 N., R.6 W., San Bernardino County, Hydrologic Unit 18070203, on right bank 50 ft upstream from the Atchison, Topeka, and Santa Fe Railway Co. bridge, 150 ft upstream from confluence with Cajon Creek, and 1.1 mi north of Keenbrook.

DRAINAGE AREA.--15.1 mi².

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 National Geodetic Vertical Datum of 1929. 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 higher.

REMARKS.--Records fair. No regulation or diversion above station. See schematic diagram of Santa Ana River basin.

AVERAGE DISCHARGE.--53 years (water years 1921-38, 1950-84) 1.90 ft³/s, 1,380 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,180 ft³/s Mar. 2, 1938, gage height unknown, on basis of slope-area measurement of peak flow; no flow Aug. 6-8, Sept. 29, 30, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 99 ft³/s Dec. 25, gage height, 2.81 ft; no other peak above base of 80 ft³/s; minimum daily, 1.7 ft³/s Sept. 4-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	5.3	5.9	5.3	4.4	4.1	3.8	3.1	2.7	2.3	3.0	1.8
2	5.0	5.2	5.8	4.9	4.6	4.3	3.7	3.0	2.6	2.2	2.9	1.8
3	4.3	5.2	6.5	5.2	4.7	4.2	3.7	3.2	2.7	2.5	2.8	1.8
4	4.6	5.1	4.9	5.3	4.7	4.0	3.8	3.6	2.8	2.7	2.6	1.7
5	4.5	5.0	5.1	5.3	4.7	4.3	3.8	3.6	2.9	2.7	2.3	1.7
6	4.2	4.9	5.4	5.1	4.7	4.4	4.0	3.2	2.9	2.8	2.1	1.7
7	4.6	4.7	5.3	4.9	4.7	4.4	3.9	2.8	2.9	2.6	2.2	1.7
8	4.7	4.9	5.3	4.9	4.7	4.5	3.4	3.0	2.9	2.6	2.4	1.8
9	4.7	4.5	5.4	4.7	4.8	4.6	3.0	2.9	2.8	2.6	2.4	1.8
10	4.8	4.9	5.2	4.7	4.7	4.4	3.2	3.0	2.7	2.6	2.4	1.9
11	5.0	4.9	5.2	4.8	4.4	3.8	3.4	3.0	2.5	2.6	2.5	1.8
12	5.2	4.7	5.4	4.6	4.3	3.5	3.5	3.0	2.4	2.7	2.6	1.8
13	5.1	4.4	5.5	4.5	4.2	3.6	3.5	3.1	2.5	2.5	2.3	1.8
14	5.3	4.4	5.6	4.4	4.1	3.9	3.4	3.2	2.5	2.7	2.4	1.8
15	5.1	4.3	5.7	4.3	4.2	4.2	3.2	3.4	2.4	2.5	2.5	1.8
16	5.1	4.1	5.6	4.5	4.3	4.4	3.0	3.2	2.4	2.6	2.3	1.9
17	4.8	4.3	5.7	4.8	4.2	4.2	2.9	3.0	3.1	2.7	2.2	2.1
18	4.7	4.3	5.8	4.7	4.3	4.1	3.1	2.8	2.9	2.7	2.2	1.9
19	4.8	4.3	5.8	4.9	3.8	3.8	3.4	2.7	2.8	2.7	2.2	1.9
20	4.7	4.5	5.7	4.9	3.2	3.6	3.4	2.5	3.0	2.7	2.1	1.9
21	4.7	4.3	5.6	4.9	3.5	3.8	3.1	2.7	2.8	2.7	2.1	1.9
22	5.4	4.4	5.6	4.8	3.7	3.7	3.2	2.6	2.7	2.9	2.1	2.0
23	5.4	4.4	5.4	4.9	3.8	3.7	3.1	2.9	2.7	2.9	2.1	2.2
24	5.3	7.0	5.7	4.8	3.9	3.5	3.1	3.3	3.0	2.8	2.2	2.2
25	5.4	8.7	23	4.6	3.8	3.4	3.2	3.2	2.9	2.8	2.1	2.1
26	5.4	5.4	8.5	4.6	3.6	3.6	3.2	2.8	2.7	2.9	2.1	2.0
27	5.6	5.1	8.7	4.5	3.7	3.6	3.2	2.6	2.6	2.9	2.0	2.1
28	5.6	5.4	6.6	4.3	3.9	3.7	3.2	2.6	2.7	2.9	2.0	2.1
29	5.5	5.6	6.8	4.1	4.0	3.8	3.1	2.2	2.7	2.8	1.9	2.2
30	5.3	5.7	5.9	4.0	---	3.9	3.0	2.4	2.5	2.6	1.9	2.3
31	5.2	---	5.7	4.1	---	4.0	---	2.7	---	2.7	1.9	---
TOTAL	166.0	149.9	198.3	146.3	121.6	123.0	100.5	91.3	81.7	82.9	70.8	57.5
MEAN	5.35	5.00	6.40	4.72	4.19	3.97	3.35	2.95	2.72	2.67	2.28	1.92
MAX	16	8.7	23	5.3	4.8	4.6	4.0	3.6	3.1	2.9	3.0	2.3
MIN	4.2	4.1	4.9	4.0	3.2	3.4	2.9	2.2	2.4	2.2	1.9	1.7
AC-FT	329	297	393	290	241	244	199	181	162	164	140	114

CAL YR 1983 TOTAL 2489.4 MEAN 6.82 MAX 195 MIN 1.9 AC-FT 4940
WTR YR 1984 TOTAL 1389.8 MEAN 3.80 MAX 23 MIN 1.7 AC-FT 2760

SANTA ANA RIVER BASIN

11063510 CAJON CREEK BELOW LONE PINE CREEK, NEAR KEENBROOK, CA

LOCATION.--Lat 34°16'04", long 117°27'58", in NW 1/4 NW 1/4 sec. 13, T.2 N., R.6 W., San Bernardino County Hydrologic Unit 18070203, on left bank 0.25 mi downstream from Lone Pine Creek, and .95 mi north of Keenbrook.

DRAINAGE AREA.--56.5 mi².

PERIOD OF RECORD.--October 1971 to September 1977. October 1983 to September 1984.

GAGE.--Water-stage recorder. Altitude of gage is 2,600 ft, from topographic map. Oct. 1, 1971 to Sept. 30, 1977 at site .25 mi upstream at diversion dam at different datum.

REMARKS.--Records good, except for period of no gage height record which is fair. No regulation or diversion above station. See schematic diagram of Santa Ana River basin.

AVERAGE DISCHARGE.--7 years (water years 1972-77, 1984), 8.03 ft³/s, 5,820 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,780 ft³/s Feb. 11, 1973, gage height, 13.50 ft, site and datum then in use; minimum daily, 2.2 ft³/s Dec. 16, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 770 ft³/s Dec. 25, gage height, 6.21 ft, from highwater mark, on basis of slope-area measurement of peak flow, no other peak above base of 250 ft³/s; minimum daily, 5.7 ft³/s July 9, Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	12	12	20	12	12	12	10	8.2	7.5	7.3	8.4
2	25	12	12	21	12	12	12	10	8.3	7.4	7.4	7.7
3	17	11	20	16	12	12	11	9.5	8.2	7.2	7.0	7.4
4	16	11	19	17	12	12	11	9.5	8.1	6.9	7.3	7.7
5	16	11	15	17	12	12	12	9.9	8.2	6.8	7.1	7.5
6	15	11	13	16	12	12	12	9.6	8.5	7.0	6.7	7.4
7	15	11	13	15	10	12	12	10	8.3	6.8	6.9	7.3
8	14	11	12	14	11	12	11	9.5	7.6	5.9	7.3	6.7
9	14	11	12	14	11	12	9.9	9.7	7.0	5.7	7.4	6.1
10	14	11	12	14	12	12	10	9.3	6.5	5.8	7.5	6.4
11	14	14	12	14	12	11	9.8	8.8	6.3	5.9	7.9	6.4
12	13	16	12	14	12	11	10	7.7	7.0	5.8	7.2	6.4
13	13	14	12	15	12	11	10	6.9	7.4	6.5	6.0	6.4
14	13	13	12	14	12	11	10	6.8	8.9	6.5	6.3	6.4
15	13	13	12	14	11	11	10	7.4	9.4	6.3	7.5	5.9
16	13	13	12	13	11	11	9.9	7.3	9.5	6.7	6.9	5.8
17	12	13	12	13	11	11	9.9	7.4	9.4	7.4	6.7	6.3
18	12	12	12	13	12	11	10	7.4	9.6	7.5	7.4	6.7
19	12	12	12	13	13	10	10	7.2	9.3	7.5	7.1	6.5
20	12	13	12	12	11	10	9.9	7.0	9.2	7.4	6.8	6.7
21	12	13	12	12	11	11	10	7.2	9.3	7.2	7.3	6.9
22	12	12	12	12	11	11	10	6.8	9.0	7.3	7.6	6.5
23	12	12	13	12	11	11	10	7.0	8.6	6.8	7.6	6.3
24	12	27	15	12	11	11	10	7.9	8.8	6.7	7.8	6.2
25	12	24	190	12	11	11	10	7.7	7.8	6.7	8.0	6.1
26	12	14	31	12	11	12	10	7.6	7.9	7.4	7.5	5.8
27	11	12	22	12	11	11	11	6.6	8.1	7.7	8.5	5.8
28	11	12	22	12	11	11	10	6.2	8.4	7.4	8.1	5.9
29	11	12	20	12	11	12	9.4	7.1	8.4	7.1	8.2	5.7
30	13	12	21	11	---	12	9.6	7.5	8.3	7.0	8.0	5.8
31	13	---	19	11	---	12	---	7.8	---	7.0	8.3	---
TOTAL	460	395	637	429	332	353	312.4	250.3	249.5	212.8	228.6	197.1
MEAN	14.8	13.2	20.5	13.8	11.4	11.4	10.4	8.07	8.32	6.86	7.37	6.57
MAX	56	27	190	21	13	12	12	10	9.6	7.7	8.5	8.4
MIN	11	11	12	11	10	10	9.4	6.2	6.3	5.7	6.0	5.7
AC-FT	912	783	1260	851	659	700	620	496	495	422	453	391

WTR YR 1984 TOTAL 4056.7 MEAN 11.1 MAX 190 MIN 5.7 AC-FT 8050

NOTE.--No gage-height record Dec. 8-27.

11063680 DEVIL CANYON CREEK NEAR SAN BERNARDINO, CA

LOCATION.--Lat 34°12'30", long 117°19'50", in Muscupiabe Grant, San Bernardino County, Hydrologic Unit 18070203, on left bank 0.6 mi downstream from confluence of East and West Forks, and 7.5 mi northwest of San Bernardino.

DRAINAGE AREA.--5.49 mi².

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, from topographic map. Prior to December 1919, nonrecording gage at site 0.5 mi downstream at different datum. December 1919 to July 1969, at site 0.4 mi 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 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. Records given below are for creek only unless otherwise indicated.

COOPERATION.--Records of diversion were furnished by city of San Bernardino.

AVERAGE DISCHARGE.--Creek only: 65 years (water years 1914, 1921-84), 2.33 ft³/s, 1,690 acre-ft/yr.
Combined creek and diversion: 51 years (water years 1914, 1935-1984), 4.32 ft³/s, 3,130 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD (1913-14 AND SINCE 1919).--Maximum discharge, 3,720 ft³/s Jan. 25, 1969, gage height, 5.40 ft, site and datum then in use, on basis of slope-area measurement of peak flow; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 50 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	Unknown	54	5.68	Dec. 25	1415	*180	6.13
Nov. 24	2300	56	5.69				

Minimum, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	.32	5.9	4.8	.24	.11	1.8	.02	.01	0	0	0
2	10	.24	2.5	4.3	.23	.10	.06	.02	.01	0	0	0
3	7.0	.16	8.7	3.8	.22	.08	.05	.02	.01	0	0	0
4	.20	.06	6.7	3.4	.20	.07	.04	.02	.01	0	0	0
5	6.5	.06	2.9	3.1	.19	.06	.04	.04	.01	0	0	0
6	2.7	.17	2.1	3.1	.18	.07	.04	.04	.01	0	0	0
7	5.9	.14	2.1	2.7	.18	.06	.03	.05	0	0	0	0
8	6.5	.08	1.4	2.4	.18	.05	.02	.05	0	0	0	0
9	3.0	.08	3.3	2.4	.19	.05	.02	.04	0	0	0	0
10	.99	.07	6.9	2.0	.21	.05	.02	.04	0	0	0	0
11	2.8	.53	6.5	1.8	.19	.04	.02	.04	0	0	0	0
12	1.8	10	6.5	1.8	.18	.04	.02	.04	0	0	0	0
13	.96	7.7	4.3	1.8	.18	.03	.01	.03	0	0	0	0
14	1.1	3.3	2.6	1.8	.17	2.2	.01	.04	0	0	0	0
15	.62	1.7	1.6	1.6	.17	.19	.01	.04	0	.09	3.1	0
16	.14	.95	.19	1.5	1.6	.38	.01	.04	0	.47	.78	0
17	4.4	2.0	1.5	1.3	2.1	.85	.01	.04	0	0	0	0
18	6.6	5.4	2.7	1.1	.42	.07	.01	.04	0	0	0	.50
19	6.3	.87	1.2	.92	.20	.06	3.0	.04	0	0	0	0
20	4.8	3.3	.14	.75	.19	.06	1.6	.04	0	0	0	0
21	3.5	2.8	.12	.67	.19	.05	.05	.05	0	0	0	0
22	2.5	1.3	.17	.56	.19	.05	.04	.05	0	0	0	0
23	2.6	1.0	.28	.44	.18	.04	.04	.05	0	0	0	0
24	2.2	9.1	3.1	.35	.18	.03	.03	.05	0	0	0	0
25	2.5	16	51	.31	.18	.03	.04	.05	0	0	0	0
26	2.2	8.9	34	.30	.15	1.5	.03	.04	0	0	0	0
27	.89	7.5	38	.28	.13	1.7	.04	.05	0	0	0	0
28	.14	4.0	23	.27	.12	.05	.03	.14	0	0	0	0
29	.11	2.6	11	.26	.11	.04	.02	.03	0	0	0	0
30	.09	4.0	8.1	.25	---	.04	.02	.03	0	0	0	0
31	.08	---	5.6	.24	---	1.2	---	.02	---	.09	0	---
TOTAL	104.12	94.33	244.10	50.30	8.85	9.35	7.16	1.29	0.06	0.65	3.88	0.50
MEAN	3.36	3.14	7.87	1.62	.31	.30	.24	.042	.002	.021	.13	.017
MAX	15	16	51	4.8	2.1	2.2	3.0	.14	.01	.47	3.1	.50
MIN	.08	.06	.12	.24	.11	.03	.01	.02	0	0	0	0
AC-FT	207	187	484	100	18	19	14	2.6	.1	1.3	7.7	1.0
a	375	385	678	421	318	318	279	225	204	163	162	135

CAL YR 1983 TOTAL 3316.10 MEAN 9.09 MAX 111 MIN 0 AC-FT 6580 a 9220
WTR YR 1984 TOTAL 524.59 MEAN 1.43 MAX 51 MIN 0 AC-FT 1040 a 3661

a Combined discharge, in acre-feet, of Devil Canyon Creek and city of San Bernardino diversion.

SANTA ANA RIVER BASIN

11066460 SANTA ANA RIVER AT MWD CROSSING, NEAR ARLINGTON, CA

LOCATION.--Lat 33°58'04", long 117°26'46", in NE 1/4 NE 1/4 SW 1/4 sec.30, T.2 S., R.5 W., Riverside County, Hydrologic Unit 18070203, on left bank 300 ft upstream from MWD crossing, 0.7 mi downstream from Union Pacific Railroad bridge, 1.2 mi upstream from bridge on Van Buren Boulevard, and 3.3 mi north of Arlington.

DRAINAGE AREA.--852 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR CA-83-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 685 ft, from topographic map.

REMARKS.--Records poor. 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.--14 years (water years 1971-84), 116 ft³/s, 84,040 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,200 ft³/s Mar. 2, 1983, gage height, 15.38 ft, from rating curve extended above 5,100 ft³/s on basis of area-velocity study; maximum gage height, 20.23 ft, Mar. 4, 1978; minimum daily, 15 ft³/s Sept. 7, 8, 1980.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1927, 100,000 ft³/s Mar. 2, 1938, on basis of slope-area measurement at site 1.2 mi downstream. Flood of Jan. 22, 1862, 320,000 ft³/s, by slope-conveyance study at site 8.1 mi upstream. Stage at that site was 5 ft higher than Mar. 2, 1938.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft³/s and maximum (*), from rating curve extended as explained above:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	0830	*5,320	11.63	Nov. 25	0200	4,120	11.27
Nov. 12	0715	1,730	10.28	Dec. 25	1815	3,530	11.05

Minimum daily, 58 ft³/s Aug. 3-9.DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1570	105	160	220	112	89	86	76	70	65	77	60
2	295	105	150	230	114	88	86	76	70	65	64	51
3	240	105	325	200	115	88	86	76	69	66	58	61
4	170	105	360	195	115	88	84	76	69	72	58	60
5	120	106	260	170	115	87	85	76	68	105	58	61
6	107	110	160	160	114	86	85	76	68	88	58	61
7	107	119	120	150	113	85	86	76	68	76	58	60
8	107	110	120	148	112	88	84	77	67	70	58	60
9	107	111	119	145	113	86	81	77	66	65	58	60
10	107	160	119	141	114	84	78	77	65	65	72	69
11	106	350	115	136	115	84	76	78	64	64	67	72
12	105	726	124	131	116	87	76	78	63	64	64	72
13	106	400	140	125	117	88	76	78	63	112	64	72
14	107	300	120	130	114	120	74	78	63	92	64	73
15	106	170	115	139	110	86	74	79	63	103	68	73
16	106	114	106	140	139	81	74	79	63	93	65	76
17	105	112	105	130	110	79	74	79	63	84	64	72
18	106	270	105	120	101	78	74	78	63	130	67	74
19	107	190	110	108	97	80	105	78	62	105	300	74
20	106	265	110	110	95	81	90	78	62	81	175	74
21	105	350	109	107	94	84	81	77	62	70	81	74
22	106	300	92	110	94	80	78	76	62	67	76	73
23	107	225	90	107	92	78	74	74	62	66	71	73
24	107	375	388	112	91	81	74	73	62	65	68	73
25	107	1110	1880	110	90	84	74	72	62	64	66	72
26	106	480	1100	118	90	85	74	71	62	63	64	72
27	105	260	838	124	90	86	73	71	64	63	62	71
28	105	280	580	120	89	86	73	71	65	92	60	69
29	105	210	390	110	89	86	73	71	68	270	60	67
30	105	150	300	110	---	84	74	74	66	121	60	65
31	105	---	260	110	---	86	---	71	---	90	60	---
TOTAL	5153	7773	9061	4256	3070	2653	2382	2347	1944	2696	2345	2054
MEAN	166	259	292	137	106	85.6	79.4	75.7	64.8	87.0	75.6	68.5
MAX	1570	1110	1880	230	139	120	105	79	70	270	300	76
MIN	105	105	90	107	89	78	73	71	62	63	58	60
AC-FT	10220	15420	17970	8440	6090	5260	4720	4660	3860	5350	4650	4070
CAL YR 1983	TOTAL 159582	MEAN 437	MAX 11500	MIN 63	AC-FT 316530							
WTR YR 1984	TOTAL 45734	MEAN 125	MAX 1880	MIN 58	AC-FT 90710							

NOTE.--No gage-height record Oct. 1 to Dec. 24, Dec. 26 to Sept. 30.

SANTA ANA RIVER BASIN

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1970 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1969 to September 1978

INSTRUMENTATION.--Specific-conductance recorder October 1969 to September 1978.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,320 micromhos Nov. 4, 1969; minimum recorded, 95 micromhos Nov. 27, 1970.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT					
06...	0945	107	825	20.0	508
21...	1230	--	935	24.5	589
NOV					
04...	1245	105	975	24.0	608
16...	1230	114	850	21.0	527
DEC					
09...	1255	119	955	17.0	592
27...	1300	838	360	15.0	223
JAN					
27...	1030	127	1000	12.5	644
FEB					
10...	1325	114	1020	19.5	745
MAR					
01...	1330	89	1050	22.0	681
15...	1230	71	1080	26.5	686
APR					
06...	1405	86	1070	24.5	731
MAY					
04...	1255	60	1080	28.0	692
16...	0930	79	1100	19.5	672
JUN					
12...	1300	53	1050	28.0	662
21...	1115	63	1070	26.0	672
JUL					
16...	0925	93	985	25.5	659
26...	0840	63	1030	21.5	654
AUG					
08...	1142	58	1040	28.5	648
28...	1030	60	1050	26.5	654
SEP					
10...	0955	69	1020	25.0	664
26...	0945	72	1020	22.0	665

SANTA ANA RIVER BASIN

11069000 LAKE HEMET NEAR IDYLLWILD, CA

LOCATION.--Lat 33°39'56", long 116°42'19", in SE 1/4 SW 1/4 NE 1/4 sec.7, T.6 S., R.3 E., Riverside County, Hydrologic Unit 18070202, on upstream face near right end of dam on South Fork San Jacinto River, 5 mi southeast of Idyllwild, and 6.5 mi upstream from mouth.

DRAINAGE AREA.--65.6 mi².

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

GAGE.--Nonrecording gage read once daily. Datum of gage is 4,201.5 ft National Geodetic Vertical Datum of 1929 (levels by Lake Hemet Municipal Water District).

REMARKS.--Lake is formed by single-arch dam. Dam was completed to a height of 110 ft in 1893; raised to 122.5 ft in 1895, and to 135 ft in 1923. Capacity table is dated February 1932 (furnished by Lake Hemet Municipal Water District). Capacity below spillway level with flashboards (usually in place except for emergency operations), elevation, 4,336.5 ft, 13,540 acre-ft. Capacity below spillway level (without flashboards), elevation, 4,330 ft, 12,170 acre-ft. 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 and contents furnished by Lake Hemet Municipal Water District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 14,690 acre-ft Feb. 21, 1980, elevation, 4,339.4 ft, from capacity table extended above 4,336.5 ft; minimum observed, 264 acre-ft Nov. 19, 1962, Nov. 19, 1963, elevation, 4,266.9 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 13,670 acre-ft, spilling, Dec. 27, elevation, 4,336.8; minimum observed, 8,970 acre-ft Sept. 30, elevation, 4,324.8 ft.

MONTHEND ELEVATION, NGVD, AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	4,333.7	12,450	--
Oct. 31.....	4,332.5	11,970	-480
Nov. 30.....	4,334.2	12,640	+670
Dec. 31.....	4,336.7	13,630	+990
CAL YR 1983.....	--	--	+880
Jan. 31.....	4,336.5	13,550	-80
Feb. 29.....	4,336.5	13,550	--
Mar. 31.....	4,336.5	13,550	--
Apr. 30.....	4,336.3	13,470	-80
May 31.....	4,334.5	12,760	-710
June 30.....	4,331.5	11,570	-1,190
July 31.....	4,328.6	10,290	-1,280
Aug. 31.....	4,326.4	9,530	-760
Sept. 30.....	4,324.8	8,970	-560
WTR YR 1984.....	--	--	-3,460

11069500 SAN JACINTO RIVER NEAR SAN JACINTO, CA

LOCATION.--Lat 33°44'10", long 116°49'26", in NE 1/4 NE 1/4 SE 1/4 sec.13, T.5 S., R.1 E., Riverside County, Hydrologic Unit 18070202, on right bank 350 ft upstream from bridge on State Highway 74, 1 mi downstream from North Fork, 8.3 mi southeast of San Jacinto, and 9 mi downstream from Lake Hemet.

DRAINAGE AREA.--141 mi².

PERIOD OF RECORD.--October 1920 to February 1927, March 1927 to current year. Records for Oct. 1, 1969 to Sept. 30, 1980 equivalent to prior records if lower diversion is deducted from flow past station. For the 1981 water year records are from the auxiliary gage below the lower diversion and are equivalent to records for March 1927 to Sept. 30, 1969. Combined records of river and diversion, October 1948 to September 1980, October 1982 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 Corps of Engineers datum. See WSP 1735 for history of changes prior to Jan. 23, 1948. Oct. 1, 1969, to Sept. 30, 1980, at site 350 ft upstream 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 above station. One small diversion for domestic use above station. Diversion above station began prior to 1920. 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: 52 years (water years 1921-26, 1928-69, 1981-84), 19.5 ft³/s, 14,130 acre-ft/yr; 11 years (water years 1970-80), 29.0 ft³/s, 21,010 acre-ft/yr.
Combined river and diversion: 35 years (water years 1949-80, 1983-84), 27.0 ft³/s 19,560 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--River only: Maximum discharge, 45,000 ft³/s Feb. 16, 1927, on basis of slope-area measurement of maximum flow; no flow for several months in some years.
Combined river and diversion: Maximum discharge, 17,300 ft³/s Feb. 21, 1960; no flow at times in 1951, 1952, 1957, 1976.

EXTREMES FOR CURRENT YEAR.--Combined river and diversion: Peak discharges above base of 500 ft³/s and maximum (*), from rating curve extended above 1,220 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 25	0345	731	4.74
Dec. 25	0930	*1,760	5.76

Minimum daily discharge, 2.8 ft³/s Sept. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	.70	20	114	18	11	9.6	9.8	.88	2.4	30	1.1
2	8.2	.70	20	146	25	11	10	9.2	.63	2.9	15	1.0
3	5.4	.75	22	103	23	12	11	8.3	.65	3.7	12	.90
4	3.2	.68	39	59	18	12	11	7.3	.65	3.5	11	.90
5	4.5	.59	25	47	19	31	10	6.2	.95	2.8	11	.85
6	4.9	.68	23	43	20	11	11	5.5	1.4	2.4	10	1.1
7	1.8	.70	21	39	20	8.0	13	4.6	1.5	2.4	10	.94
8	1.9	.63	19	42	21	8.0	12	4.1	2.9	2.6	10	.91
9	1.8	.59	19	47	20	7.9	11	3.6	1.3	2.7	9.6	1.1
10	.87	.57	23	47	19	8.7	11	3.0	4.0	3.4	12	1.3
11	.84	.68	20	53	21	9.7	10	6.0	7.6	3.6	9.3	1.6
12	.84	11	18	45	21	10	10	2.4	7.0	4.7	9.1	2.8
13	.73	19	16	39	20	11	11	2.1	3.0	4.6	8.8	3.0
14	.78	26	16	44	18	11	16	1.8	1.9	6.6	7.8	3.4
15	.70	11	15	42	20	13	16	1.6	1.8	15	3.0	4.0
16	.70	7.7	14	43	18	14	13	1.4	1.6	19	2.0	4.1
17	.73	6.5	11	46	19	13	12	1.2	1.4	8.4	2.4	2.6
18	.78	10	11	41	20	12	12	1.0	1.3	9.0	6.0	1.5
19	1.2	8.0	11	38	20	15	14	.90	1.1	13	9.0	1.9
20	.81	33	10	37	31	13	14	.80	4.6	6.9	7.3	2.0
21	.75	48	10	36	17	11	13	.70	6.0	16	7.9	1.9
22	.68	23	9.8	37	13	11	18	.60	8.4	66	5.0	1.8
23	.73	18	9.5	46	13	11	23	.60	4.9	11	5.1	2.0
24	.68	15	9.5	36	13	11	17	.60	2.0	13	11	1.8
25	.63	151	741	31	14	10	17	.60	2.0	12	10	1.5
26	.57	44	730	42	22	11	10	.60	2.0	9.8	10	2.4
27	.59	28	522	68	21	13	10	.59	2.1	7.2	4.3	2.8
28	.68	25	291	28	14	12	13	.58	2.0	10	1.3	2.1
29	.70	23	199	22	11	11	12	.58	2.4	16	1.2	1.6
30	.75	20	159	20	---	9.3	11	.63	2.4	35	1.1	1.5
31	.73	---	134	19	---	8.7	---	.68	---	70	.96	---
TOTAL	54.87	534.47	3193.8	1500	549	361.3	381.6	87.76	80.36	385.6	253.16	56.40
MEAN	1.77	17.8	103	48.4	18.9	11.7	12.7	2.83	2.68	12.4	8.17	1.88
MAX	8.2	151	741	146	31	31	23	9.8	8.4	70	30	4.1
MIN	.57	.57	9.5	19	11	7.9	9.6	.58	.63	2.4	.96	.85
AC-FT	109	1060	6330	2980	1090	717	757	174	159	765	502	112
CAL YR 1983	TOTAL	37259.6	MEAN	102	MAX	1160	MIN	.57	AC-FT	73900		
WTR YR 1984	TOTAL	7438.32	MEAN	20.3	MAX	741	MIN	.57	AC-FT	14750		

SANTA ANA RIVER BASIN

11069501 SAN JACINTO RIVER NEAR SAN JACINTO, CA---Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF SAN JACINTO RIVER AND LAKE HENET
WATER CO.'S UPPER CANAL, NEAR SAN JACINTO, CA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	10	28	118	20	12	10	17	11	6.8	42	9.1
2	17	10	26	152	29	12	11	16	11	5.7	26	11
3	13	9.9	35	107	27	13	11	15	11	3.7	19	12
4	11	9.4	48	64	21	13	11	13	11	4.0	12	11
5	13	9.1	31	52	22	31	11	12	11	4.4	12	9.4
6	13	9.6	25	48	23	12	13	11	11	4.5	11	9.1
7	11	9.3	23	45	23	8.8	15	12	11	4.4	11	13
8	11	9.2	21	49	24	9.6	13	11	11	4.7	11	13
9	11	9.0	22	54	23	8.4	12	11	12	4.6	11	15
10	10	8.8	27	50	22	9.3	11	10	14	5.5	13	13
11	9.5	9.7	22	56	24	10	10	10	14	5.7	10	6.6
12	11	21	21	48	24	11	10	8.4	15	6.8	10	2.8
13	10	21	19	41	23	12	11	9.7	12	8.9	9.7	3.0
14	11	32	19	46	21	12	16	10	11	13	15	3.4
15	11	20	18	45	22	16	16	11	11	22	19	4.0
16	11	15	16	45	21	15	14	11	11	24	17	4.1
17	11	15	14	48	22	14	12	11	11	11	17	7.7
18	12	20	14	43	23	13	12	11	11	13	20	9.1
19	12	19	14	41	23	16	15	10	10	22	23	9.4
20	11	42	13	40	33	14	15	10	7.8	17	21	10
21	10	58	13	39	20	11	14	9.0	8.6	26	21	9.9
22	9.9	34	14	38	15	11	19	9.3	12	76	18	9.7
23	9.6	30	13	46	15	11	23	9.5	8.0	17	15	9.8
24	9.5	25	15	36	15	11	17	9.8	5.9	18	11	9.2
25	8.7	158	744	34	16	10	20	9.0	5.2	16	10	12
26	8.4	54	730	45	24	11	16	12	5.9	15	10	14
27	9.2	39	526	71	23	13	17	12	6.6	12	9.4	10
28	9.6	31	297	30	16	12	21	11	7.3	19	13	7.0
29	10	29	203	24	13	11	20	11	6.6	27	13	7.5
30	10	30	159	22	---	9.8	19	12	7.0	47	12	7.4
31	10	---	134	21	---	9.1	---	12	---	83	9.7	---
TOTAL	340.4	797.0	3304	1598	627	382.0	435	346.7	300.9	547.9	471.8	272.2
MEAN	11.0	26.6	107	51.5	21.6	12.3	14.5	11.2	10.0	17.7	15.2	9.07
MAX	17	158	744	152	33	31	23	17	15	63	42	15
MIN	8.4	8.8	13	21	13	8.4	10	8.4	5.2	3.7	9.4	2.8
AC-FT	675	1580	6550	3170	1240	758	863	686	597	1090	936	540
CAL YR 1983	TOTAL	39058.1	MEAN	107	MAX	1160	MIN	2.1	AC-FT	77470		
WTR YR 1984	TOTAL	9422.9	MEAN	25.7	MAX	744	MIN	2.8	AC-FT	18690		

11070050 BAUTISTA CREEK AT VALLE VISTA, CA

LOCATION.--Lat 33°44'04", long 116°53'33", in SE 1/4 NE 1/4 SE 1/4 sec.17, T.5 S., R.1 E., Riverside County, Hydrologic Unit 18070202, on left levee of flood channel, 1.0 mi south of Valle Vista.

DRAINAGE AREA.--47.2 mi².

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

REVISED RECORDS.--WDR CA-83-1: 1980(M).

GAGE.--Water-stage recorder. Altitude of gage is 1,835 ft, from topographic map.

REMARKS.--Records poor. No major regulation above station but peaks are affected by detention dam. Diversion above station for irrigation of about 15 acres. Some infiltration in detention dam, 1.5 mi upstream.

AVERAGE DISCHARGE.--15 years, 2.65 ft³/s, 1,920 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,320 ft³/s Feb. 21, 1980, gage height, 6.40 ft, from rating curve extended above 80 ft³/s on basis of slope-conveyence study of maximum flow; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,560 ft³/s Sept. 9, gage height, 3.74 ft, no other peak above base of 100 ft³/s; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	1.8	1.5	0	2.7	3.2	5.1	.93	.33	0	0	.23
2	2.3	1.5	.50	0	2.8	3.6	2.3	1.1	.92	.04	0	.64
3	2.7	.60	0	0	2.2	3.5	1.5	.78	.38	0	0	0
4	2.1	0	0	0	2.3	3.7	1.9	.83	.25	0	0	0
5	1.8	1.4	0	0	2.6	3.3	1.5	.64	.94	0	0	0
6	1.5	1.6	0	0	2.4	3.5	1.3	.64	1.7	0	0	0
7	1.5	2.3	0	0	2.3	2.6	0	.28	.83	0	0	0
8	0	.50	0	0	3.0	2.7	0	0	.50	.22	0	0
9	0	.80	.26	0	2.4	2.5	1.1	0	.75	.15	0	36
10	0	1.8	0	.86	2.0	3.0	1.2	0	.38	0	0	0
11	0	2.1	0	2.6	2.0	4.2	0	.42	1.9	0	0	0
12	0	3.2	0	2.2	2.4	4.1	.10	.91	.62	0	0	0
13	0	2.4	0	2.0	2.7	3.9	1.1	0	.35	0	0	0
14	0	2.8	0	2.1	2.2	3.6	2.0	0	.42	3.4	.12	0
15	.80	2.1	0	2.3	2.0	3.8	0	0	0	3.9	0	0
16	0	1.7	0	2.2	1.8	4.4	0	0	.26	0	0	0
17	0	3.2	0	1.7	2.2	3.7	0	.06	0	0	0	0
18	0	1.4	1.5	2.5	2.1	3.6	0	.44	0	0	.94	0
19	0	1.1	2.6	2.5	2.7	3.2	1.2	.51	0	0	4.8	0
20	0	1.9	1.8	2.1	3.7	1.4	.75	0	.69	0	0	0
21	.13	.88	.50	2.0	4.1	0	.17	.08	.43	0	0	0
22	0	1.3	1.4	2.0	3.5	.38	.38	.73	0	0	0	0
23	.19	1.9	2.6	1.9	3.6	.50	0	.78	0	0	0	0
24	1.9	.70	2.2	1.5	3.3	1.9	0	.17	0	0	0	0
25	1.5	.95	26	1.7	3.8	2.3	.31	.75	0	0	0	0
26	0	0	3.6	2.9	6.6	2.7	.82	0	0	0	1.5	0
27	.90	0	1.5	1.5	5.7	4.0	.67	.08	0	.23	.71	0
28	1.8	0	0	2.1	2.6	2.6	1.1	0	0	.33	0	0
29	1.8	1.2	0	6.3	3.0	1.5	.95	0	.01	0	0	0
30	1.0	2.0	0	1.8	---	.20	.64	.62	0	2.7	0	0
31	.60	---	0	2.1	---	4.7	---	0	---	0	0	---
TOTAL	24.92	43.13	45.96	48.86	84.7	88.28	26.09	10.75	11.66	10.97	8.07	36.87
MEAN	.80	1.44	1.48	1.58	2.92	2.85	.87	.35	.39	.35	.26	1.23
MAX	2.7	3.2	26	6.3	6.6	4.7	5.1	1.1	1.9	3.9	4.8	36
MIN	0	0	0	0	1.8	0	0	0	0	0	0	0
AC-FT	49	86	91	97	168	175	52	21	23	22	16	73
CAL YR 1983	TOTAL	1442.71	MEAN	3.95	MAX	260	MIN	0	AC-FT	2860		
WTR YR 1984	TOTAL	440.26	MEAN	1.20	MAX	36	MIN	0	AC-FT	873		

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 SE 1/4 SE 1/4 NW 1/4 sec.13, T.5 S., R.4 W., Riverside County, Hydrologic Unit 18070202, on right bank 4.3 mi northeast of Railroad Canyon Dam, and 5.8 mi northeast of Elsinore.

DRAINAGE AREA.--562 mi².

PERIOD OF RECORD.--October 1951 to current year. Monthly discharge only prior to October 1971.

GAGE.--Water-stage recorder. Altitude of gage is 1,400 ft, from topographic map. Prior to Sept. 28, 1960, at site 0.8 mi upstream at different datum.

REMARKS.--Flow partly regulated by Lake Hemet (station 11069000). Diversions for irrigation and domestic use above gage. At times imported Colorado River water is discharged into channel above station by Temescal Water Co. or Elsinore Valley Municipal Water District.

COOPERATION.--Records are published as furnished by Riverside County Flood Control and Water Conservation District.

AVERAGE DISCHARGE.--River only: 33 years, 14.4 ft³/s, 10,430 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,700 ft³/s Feb. 22, 1980, gage height, 7.27 ft; no flow for long periods in each year.

EXTREMES FOR WATER YEAR 1983.--Maximum discharge, 4,180 ft³/s Mar. 3, gage height, 6.42 ft; no flow many days. WATER YEAR 1984: Maximum discharge, 307 ft³/s July 16, gage height, 2.32 ft; no flow many months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

MEAN VALUES

(NOT PREVIOUSLY PUBLISHED)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	24	.20	17	1150						
2	.04	0	1.2	3.1	50	2180						
3	.45	0	0	.47	141	3330						
4	0	0	0	0	21	2070						
5	0	0	0	0	12	1400						
6	0	0	0	0	11	869						
7	0	0	0	0	13	611						
8	0	0	0	0	47	475						
9	0	0	0	0	211	372						
10	0	1.4	0	0	363	293						
11	0	19	0	0	225	234						
12	0	0	0	0	104	200						
13	0	0	0	0	61	163						
14	0	0	0	0	41	140						
15	0	0	0	0	30	147						
16	0	0	0	0	24	148						
17	0	0	0	0	19	117						
18	0	0	0	0	13	154						
19	0	0	0	0	7.7	375						
20	0	0	0	0	3.7	497						
21	0	0	0	0	2.4	446						
22	0	0	0	0	1.5	411						
23	0	0	11	8.9	.81	441						
24	0	0	1.7	1.1	.45	582						
25	0	0	.54	1.2	.36	821						
26	0	0	.18	0	12	846						
27	0	0	.18	43	190	608						
28	0	0	.14	35	284	469						
29	0	0	0	149	---	401						
30	0	107	0	8.1	---	363						
31	0	---	0	5.8	---	334						
TOTAL	0.49	127.4	38.94	255.87	1905.92	20647	7908.19	1.35	0	0	18.98	.40
MEAN	.016	4.25	1.26	8.25	68.1	666	264	.044	0	0	.61	.013
MAX	.45	107	24	149	363	3330	---	---	0	0	---	---
MIN	0	0	0	0	.36	117	---	---	0	0	---	---
AC-FT	1.0	253	77	508	3780	40950	15686	2.7	0	0	38	.8

CAL YR 1982 TOTAL 2138.54 MEAN 5.86 MAX 917 MIN 0 AC-FT 4240
WTR YR 1983 TOTAL 30904.54 MEAN 84.7 MAX 3330 MIN 0 AC-FT 61300

NOTE.--Apr. to Sept. 1983 monthly totals only.

SANTA ANA RIVER BASIN

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11070375 SAN JACINTO RIVER AT RAILROAD CANYON WEIR, NEAR ELSINORE, CA--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	7.3						0		0
2		0	0	5.5						0		0
3		0	0	4.9						0		0
4		0	0	3.6						0		0
5		0	0	2.2						0		0
6		0	0	1.4						0		0
7		0	0	1.1						0		0
8		0	0	.81						0		0
9		0	0	.71						0		0
10		0	0	.54						0		0
11		0	0	.45						0		0
12		0	0	1.4						0		0
13		0	0	.78						0		0
14		0	0	.54						0		0
15		0	0	.45						0		0
16		0	0	.45						105		0
17		0	0	.54						1.1		2.2
18		0	0	.45						0		.33
19		0	0	.45						0		0
20		0	0	.45						0		0
21		2.1	0	.36						0		0
22		.99	0	.36						0		0
23		.09	0	.36						0		0
24		0	0	.36						0		0
25		25	61	.27						0		0
26		3.0	19	.09						0		0
27		.79	1.6	0						0		0
28		.14	79	0						7.4		0
29		0	90	0						4.2		0
30		0	41	0						12		0
31		---	18	.80						.01		---
TOTAL	0	32.11	309.6	36.62	0	0	0	0	0	129.71	0	2.53
MEAN	0	1.07	9.99	1.18	0	0	0	0	0	4.18	0	.084
MAX	0	25	90	7.3	0	0	0	0	0	105	0	2.2
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	64	614	73	0	0	0	0	0	257	0	5.0

CAL YR 1983 TOTAL 31079.42 MEAN 85.1 MAX 3330 MIN 0 AC-FT 61650
WTR YP 1984 TOTAL 510.56 MEAN 1.39 MAX 105 MIN 0 AC-FT 1010

SANTA ANA RIVER BASIN

11070465 SALT CREEK AT MURRIETA ROAD, NEAR SUN CITY, CA

LOCATION.--Lat 33°41'37", long 117°12'19", in SW 1/4 NW 1/4 sec.33, T.5 S., R.3 W., Riverside County, Hydrologic Unit 18070202, on right bank 30 ft upstream from Murrieta Road bridge, 2.2 mi upstream from Railroad Canyon Reservoir, and 0.5 mi north of the Newport and Murrieta Road intersection.

DRAINAGE AREA.--116 mi².

PERIOD OF RECORD.--February 1983 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,400 ft, from topographic map.

REMARKS.--Flow partially regulated by small Paloma Valley Reservoir. Diversions for irrigation and domestic use above station.

COOPERATION.--Records are published as furnished by Riverside County Flood Control and Water Conservation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,120 ft³/s Mar. 2, 1983, gage height, 6.88 ft; no flow for long periods most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 224 ft³/s Aug. 17, gage height, 3.02 ft; no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	0	0				0			0	0	C
2	.12	0	0				0			0	0	0
3	0	0	.05				0			0	0	0
4	.27	0	0				0			0	0	0
5	0	0	0				0			0	0	0
6	0	0	0				0			0	0	0
7	0	0	0				0			0	0	0
8	0	0	0				0			0	0	0
9	0	0	0				0			0	0	0
10	0	0	0				0			0	0	0
11	0	0	0				0			0	0	.01
12	0	.87	0				0			0	0	0
13	0	.05	0				0			0	0	0
14	0	0	0				0			0	0	0
15	0	0	0				0			0	0	3.0
16	0	0	0				0			0	0	.38
17	0	0	0				0			0	33	0
18	0	0	0				0			0	1.7	0
19	0	0	0				0			0	3.6	0
20	0	.88	0				0			0	.53	0
21	0	0	0				0			0	.13	0
22	0	0	0				0			0	0	0
23	0	0	0				0			0	0	0
24	0	0	4.5				0			0	0	C
25	0	1.1	29				0			0	0	0
26	0	0	2.5				0			0	0	0
27	0	0	.30				6.0			0	0	0
28	0	0	0				2.1			0	0	0
29	0	0	0		---		0			7.0	0	0
30	0	0	0				0		---	.76	0	0
31	0	---	0	---		---	---	---		0	0	---
TOTAL	61.39	2.90	36.35	0	0	0	8.1	0	0	7.76	38.96	3.39
MEAN	1.98	.097	1.17	0	0	0	.27	0	0	.25	1.26	.11
MAX	61	1.1	29	0	0	0	6.0	0	0	7.0	33	3.0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	122	5.8	72	0	0	0	16	0	0	15	77	6.7

WTR YR 1984 TOTAL 158.85 MEAN .43 MAX 61 MIN 0 AC-FT 315

11070500 SAN JACINTO RIVER NEAR ELSINORE, CA

LOCATION.--Lat 33°39'51", long 117°17'35", in SE 1/4 SE 1/4 NE 1/4 sec.9, T.6 S., R.4 W., Riverside County, Hydrologic Unit 18070203, on right bank 2 mi east of Elsinore, 2.1 mi downstream from Railroad Canyon Dam, and 36 mi downstream from Lake Hemet.

DRAINAGE AREA.--723 mi².

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, from topographic map. Prior to Feb. 13, 1916, nonrecording gage at site 0.7 mi downstream at different datum. Feb. 13, 1916, to Oct. 27, 1921, nonrecording gage at present site at different datum.

REMARKS.--Records good. Flow partly regulated by Lake Hemet (station 11069000) and regulated since 1928 by Railroad Canyon Reservoir, capacity, 12,000 acre-ft, 2.1 mi above station. Diversion for irrigation and domestic use above Railroad Canyon Reservoir. Temescal Water Co. diverted 33 acre-ft during current year from Railroad Canyon Reservoir for irrigation below station in vicinity of Corona.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,000 ft³/s Feb. 17, 1927, gage height, 11.8 ft, from rating curve extended above 2,000 ft³/s on basis of slope-area measurement of maximum flow; no flow for several months in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 61 ft³/s Oct. 1, gage height, 2.86 ft; minimum daily, no flow July 7-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	1.1	1.7	1.8	1.4	1.2	.85	.82	.24	.05	.10	.08
2	2.4	1.1	1.7	1.8	1.4	1.3	.86	.84	.24	.05	.09	.08
3	1.5	1.1	1.9	1.8	1.4	1.3	.82	.80	.28	.04	.09	.07
4	1.3	1.0	1.9	1.9	1.4	1.2	.84	.80	.29	.04	.08	.07
5	1.4	1.0	1.9	1.9	1.4	1.2	.88	.79	.32	.02	.08	.06
6	1.3	1.1	1.8	1.8	1.4	1.2	.97	.76	.36	.01	.07	.10
7	1.4	1.1	1.8	1.8	1.4	1.2	.90	.74	.32	0	.08	.20
8	1.2	1.1	1.7	1.8	1.4	1.1	.85	.68	.30	0	.07	.08
9	1.3	1.0	1.8	1.8	1.4	1.1	.82	.62	.25	0	.04	.08
10	1.2	1.0	1.8	1.8	1.3	1.1	.76	.59	.21	0	.22	.27
11	1.0	1.1	1.8	1.8	1.3	1.1	.73	.58	.21	0	.15	.30
12	.91	1.8	1.8	1.8	1.2	1.1	.71	.54	.20	0	.08	.32
13	.86	1.7	1.8	1.7	1.3	1.2	.65	.51	.17	0	.07	.18
14	.86	1.3	1.8	1.6	1.2	1.1	.60	.50	.17	0	.07	.14
15	.63	1.3	1.8	1.6	1.2	1.1	.61	.56	.14	.69	.07	.10
16	.71	1.3	1.8	1.7	1.3	1.1	.59	.56	.15	.85	.07	.11
17	.85	1.3	1.7	1.5	1.3	1.1	.64	.52	.12	.14	.07	.13
18	1.0	1.4	1.8	1.5	1.3	1.0	.66	.47	.11	.11	.21	.12
19	.95	1.3	1.8	1.5	1.2	.95	.70	.48	.11	.10	.14	.15
20	.95	1.7	1.6	1.4	1.3	.98	.75	.47	.10	.10	.15	.11
21	.90	1.5	1.5	1.4	1.3	.95	.68	.50	.10	.09	.17	.11
22	.83	1.4	1.5	1.4	1.3	.93	.63	.53	.09	.09	.17	.16
23	.82	1.4	3.5	1.4	1.4	.92	.61	.49	.08	.11	.15	.16
24	.85	1.5	12	1.4	1.5	.86	.64	.49	.08	.10	.11	.17
25	.83	3.1	2.9	1.4	1.3	.84	.68	.46	.10	.09	.11	.21
26	.81	1.6	2.2	1.3	1.2	.83	.68	.40	.07	.07	.10	.22
27	.84	1.6	2.0	1.3	1.3	.86	.74	.34	.06	.07	.10	.19
28	.89	1.7	1.9	1.4	1.3	.78	.88	.27	.06	.08	.10	.18
29	.92	1.7	1.8	1.4	1.2	.78	.80	.24	.05	.10	.09	.15
30	.95	1.8	1.9	1.4	---	.80	.81	.25	.05	.10	.09	.13
31	1.0	---	1.8	1.4	---	.84	---	.26	---	.09	.08	---
TOTAL	43.36	42.1	68.7	49.5	38.3	32.02	22.34	16.86	5.03	3.19	3.27	4.43
MEAN	1.40	1.40	2.22	1.60	1.32	1.03	.74	.54	.17	.10	.11	.15
MAX	12	3.1	12	1.9	1.5	1.3	.97	.84	.36	.85	.22	.32
MIN	.63	1.0	1.5	1.3	1.2	.78	.59	.24	.05	0	.04	.06
AC-FT	86	84	136	98	76	64	44	33	10	6.3	6.5	8.8
CAL YR 1983	TOTAL	36157.80	MEAN	99.1	MAX	5350	MIN	.26	AC-FT	71720		
WTR YR 1984	TOTAL	329.10	MEAN	.90	MAX	12	MIN	0	AC-FT	653		

SANTA ANA RIVER BASIN

11072100 TEMESCAL CREEK ABOVE MAIN STREET, AT CORONA, CA

LOCATION (REVISED).--Lat 33°53'21", long 117°33'43", in La Sierra Grant, Riverside County, Hydrologic Unit 18070203, on right bank 500 ft upstream of Main Street bridge, in Corona, 1.5 mi upstream from topographic boundary of Prado Flood control basin.

DRAINAGE AREA.--224 mi², excludes 768 mi² above Lake Elsinore.

PERIOD OF RECORD.--December 1967 to September 1974, December 1980 to July 1983, February 1984 to September 1984.

GAGE.--Water-stage recorder. Altitude of gage is 600 ft, from topographic map. December 1967 to September 1974, water-stage recorder at site 1.2 mi downstream at different datum. December 1980 to July 1983 at site 500 ft downstream at different datum.

REMARKS.--Records poor. Flow regulated by Lake Elsinore and several storage reservoirs. Many diversions upstream for irrigation. Gage removed July 26, 1983 due to channel construction, and reinstalled February 28, 1984.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,850 ft³/s Feb. 25, 1969, gage height, 8.17 ft, from floodmark, at old site 1.1 mi downstream, on basis of slope-area measurement of peak flow; no flow for many days in some years.

EXTREMES FOR CURRENT YEAR.--Indeterminate due to missing gage-height record Oct. 1 to Feb. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						6.5	5.2	5.5	8.8	6.0	4.5	3.3
2						7.6	6.0	5.0	9.9	6.0	4.3	4.0
3						8.4	6.4	5.2	11	6.0	3.8	5.0
4						9.0	6.7	5.5	13	6.0	3.7	4.6
5						7.6	6.3	4.7	8.8	6.0	3.9	4.6
6						8.2	7.0	4.5	7.1	12	3.6	3.4
7						7.2	6.5	4.8	6.1	6.2	4.0	3.3
8						7.1	7.3	5.5	6.1	6.2	3.8	3.7
9						7.4	7.2	4.7	7.4	7.4	4.0	4.6
10						7.3	6.9	4.6	7.4	10	4.7	2.9
11						9.2	7.6	5.4	6.6	6.0	4.0	8.5
12						10	9.7	5.9	6.0	10	4.0	5.2
13						9.3	12	6.2	6.0	5.6	4.0	5.0
14						14	11	6.6	6.0	4.9	4.0	4.3
15						7.9	9.2	7.0	6.0	13	12	11
16						6.8	9.4	7.1	6.0	5.7	4.7	9.5
17						6.6	9.6	7.1	6.0	4.6	5.0	3.4
18						5.6	8.9	6.0	8.0	4.4	6.0	4.4
19						5.6	20	6.2	6.0	5.6	4.7	4.7
20						6.5	8.6	6.2	6.0	4.7	4.6	4.9
21						5.9	8.2	7.1	6.0	5.0	4.6	4.2
22						5.1	9.1	6.3	6.0	5.4	4.6	4.7
23						5.0	7.4	6.2	6.0	4.4	4.6	4.6
24						4.7	6.9	5.4	6.0	4.9	4.6	4.9
25						5.3	4.6	6.4	6.0	5.7	4.6	4.7
26						5.2	4.3	6.6	6.0	5.6	6.0	4.8
27						5.6	4.1	7.1	6.0	30	5.0	5.0
28					5.5	6.4	4.5	7.4	6.0	5.2	4.2	5.5
29					5.6	6.9	4.9	9.1	6.0	5.0	4.3	4.4
30					---	7.2	5.2	9.2	6.0	4.9	4.3	4.5
31					---	6.0	---	8.2	---	4.7	4.1	---
TOTAL						221.1	230.7	192.7	208.2	217.1	144.2	147.6
MEAN						7.13	7.69	6.22	6.94	7.00	4.65	4.92
MAX						14	20	9.2	13	30	12	11
MIN						4.7	4.1	4.5	6.0	4.4	3.6	2.9
AC-FT						439	458	382	413	431	286	293

NOTE.--No gage-height record Oct. 1 to Feb. 27 due to channel construction.

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, Hydrologic Unit 18070203, on right bank 300 ft downstream from Schaefer Avenue, 0.8 mi downstream from San Antonio Creek, and 1.5 mi southwest of Chino.

DRAINAGE AREA.--48.9 mi².

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

GAGE.--Water-stage recorder. Concrete dikes have formed low-water control since October 1975. Altitude of gage is 685 ft, from topographic map.

REMARKS.--Records fair. Flow mostly regulated by San Antonio flood-control reservoir, capacity, 7,620 acre-ft. 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 3,290 acre-ft to the basin via San Antonio Creek from Rialto Pipeline below San Antonio Dam (station 11073210) at a site 10 mi upstream. Chino Basin Municipal Water District took all of the imported water for ground-water replenishment in the Montclair Spreading Grounds upstream of this site. See schematic diagram of Santa Ana River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,700 ft³/s (revised), Feb. 27, 1983, gage height, 10.32 ft, from rating curve extended above 1,200 ft³/s on basis of slope-conveyance study; no flow May 21, June 30, July 1, Oct. 30, Nov. 3, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 25, 1969, 9,200 ft³/s, gage height, 9.23 ft, present datum, by contracted-opening measurement at site 6.1 mi downstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 873 ft³/s Oct. 1, gage height, 6.16 ft; minimum daily, 0.72 ft³/s several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	274	1.9	2.1	.96	1.3	1.3	1.3	1.1	1.9	1.1	1.3	1.1
2	2.3	2.7	.94	.83	1.1	1.3	1.3	1.1	.96	1.1	1.3	.96
3	2.3	1.9	2.5	.83	1.1	.96	1.9	1.1	.83	1.3	1.3	.96
4	8.1	1.6	1.1	.96	1.9	.96	1.3	1.1	1.6	1.1	1.6	1.3
5	3.8	1.3	1.6	.96	1.9	1.6	1.3	1.6	1.6	1.1	1.3	1.3
6	1.3	1.1	1.9	1.1	2.3	1.6	7.1	1.1	.96	1.9	1.3	1.3
7	8.1	1.1	2.3	1.1	1.6	1.3	1.3	1.1	.96	1.3	1.3	1.6
8	1.6	1.1	1.9	1.1	.96	1.6	.96	1.3	.96	1.1	1.3	2.3
9	1.6	.83	35	1.1	1.3	1.6	.96	1.3	1.1	1.6	1.6	3.1
10	1.3	.83	1.9	1.1	1.1	.96	.96	1.6	.83	1.7	1.3	1.6
11	1.6	63	1.6	1.1	.83	1.1	1.1	1.6	.83	.96	1.3	2.7
12	1.6	50	1.9	1.1	.72	1.6	.96	1.9	.83	2.3	1.3	1.1
13	1.6	1.5	.96	1.1	1.3	1.6	.96	1.6	.96	.96	1.3	1.6
14	1.9	1.1	1.1	1.1	1.6	18	1.3	1.6	1.1	.72	1.3	1.1
15	1.9	1.1	.96	1.1	.83	1.6	1.6	1.3	.96	.96	5.8	.96
16	2.3	1.1	1.6	4.5	.96	1.3	1.6	1.3	.83	1.1	1.9	31
17	1.9	1.5	.96	1.1	1.1	.96	2.3	1.3	.83	.72	1.6	1.6
18	1.9	2.0	.83	1.1	1.1	.96	3.1	1.3	1.6	.72	2.3	1.3
19	1.9	2.0	1.1	1.3	1.3	1.1	31	1.1	.83	.83	1.9	3.1
20	1.9	20	1.1	.96	1.6	1.3	1.3	1.1	1.1	.72	1.9	3.5
21	1.9	2.0	1.1	.96	.96	.96	1.3	1.1	1.1	.72	1.6	1.9
22	1.6	1.7	1.1	.96	1.1	1.6	1.1	1.3	1.1	.83	1.6	1.3
23	1.6	1.1	1.1	1.1	2.7	1.1	1.9	1.6	1.1	1.1	1.6	1.3
24	1.6	110	91	1.3	2.7	1.6	1.9	2.7	.83	.96	1.6	1.3
25	1.6	40	154	1.1	1.3	1.9	1.3	1.3	1.1	1.1	1.9	2.3
26	2.8	5.4	16	.96	1.3	2.0	1.1	1.1	1.1	1.3	2.2	1.9
27	1.6	4.4	3.1	.96	1.3	1.1	3.1	1.1	1.1	17	1.6	1.9
28	1.6	3.6	1.1	1.1	1.3	1.1	1.1	1.3	1.1	1.3	1.1	1.9
29	1.9	3.1	.96	1.1	1.3	1.6	.96	2.3	1.1	.96	1.3	1.9
30	2.6	2.5	.96	1.1	---	1.6	1.1	1.6	1.1	1.3	1.3	1.6
31	2.3	---	.96	1.6	---	1.9	---	2.3	---	1.3	1.3	---
TOTAL	344.0	331.46	427.79	36.74	39.86	59.16	78.46	44.2	32.30	51.16	51.3	80.78
MEAN	11.1	11.0	13.8	1.19	1.37	1.91	2.62	1.43	1.08	1.65	1.65	2.69
MAX	274	110	154	4.5	2.7	.18	31	2.7	1.9	17	5.8	31
MIN	1.3	.83	.83	.83	.72	.96	.96	1.1	.83	.72	1.1	.96
AC-FT	682	657	849	73	79	117	156	88	64	101	102	160

CAL YR 1983 TOTAL 8478.64 MEAN 23.2 MAX 1140 MIN .51 AC-FT 16820
WTR YR 1984 TOTAL 1577.21 MEAN 4.31 MAX 274 MIN .72 AC-FT 3130

SANTA ANA RIVER BASIN

11073495 CUCAMONGA CREEK NEAR MIRA LOMA, CA

LOCATION.--Lat 33°58'58", long 117°35'55", in SW 1/4 SW 1/4 NE 1/4 sec.22, T.2 S., R.7 W., San Bernardino County, Hydrologic Unit 16070203, on right bank 300 ft upstream from Merrill Avenue bridge, 4.6 mi west of Mira Loma.

DRAINAGE AREA.--75.8 mi².

PERIOD OF RECORD.--January 1968 to July 31, 1977, January 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 660 ft, from topographic map. Prior to July 1977 at site 100 ft downstream at different datum.

REMARKS.--Records poor. No regulation above station. See schematic diagram of Santa Ana River basin. Station reinstalled after channel construction on Dec. 22, 1979. Channel is now a trapezoidal concrete floodway, and records for low and medium flows prior to July 31, 1977 are not equivalent.

AVERAGE DISCHARGE.--8 years (water years 1969-76) 2.74 ft³/s, 1,990 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,100 ft³/s Feb. 27, 1983, gage height, 7.85 ft, from floodmark, on basis of slope-conveyance study of peak flow; no flow most of some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,250 ft³/s Dec. 25, gage height, 4.64 ft, from rating curve extended on basis of slope-conveyance study; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	270	.60	2.7	1.5	.87	1.0	1.5	.10	.25	0	.65	1.2
2	1.1	.30	2.2	1.5	1.4	1.0	1.3	0	.25	0	.65	1.2
3	1.1	.40	118	12	1.8	1.0	1.3	0	.25	0	.65	1.3
4	22	.45	2.3	1.4	1.6	1.0	1.3	0	.25	0	.65	1.6
5	1.1	.45	2.3	1.1	1.1	1.0	1.3	.30	.25	0	.65	1.2
6	1.1	.45	2.3	.57	1.3	1.0	12	0	.25	0	.70	.59
7	22	.45	2.2	.30	1.2	1.0	1.4	0	.25	0	.24	.73
8	1.1	.45	2.2	.60	.87	1.0	1.3	.10	.25	0	.19	.81
9	1.1	.45	10	1.0	.92	1.0	1.2	.18	.25	0	.59	1.1
10	1.1	.45	3.0	1.0	1.0	1.0	1.2	.20	.25	.23	.59	1.1
11	1.1	98	11	1.0	.29	1.0	1.2	.25	.25	.30	.42	4.2
12	1.1	82	3.5	1.0	.50	1.0	1.2	.25	.25	.70	.42	.17
13	1.1	2.0	.30	1.1	.79	1.0	1.1	.25	.87	.60	.14	.30
14	1.1	1.6	.44	.41	.67	39	1.1	.25	.64	.60	.44	.17
15	1.1	1.4	.77	.30	1.6	2.0	1.1	.25	.44	.55	11	.17
16	1.1	1.1	.64	6.8	.42	1.8	1.0	.25	.41	.55	1.4	15
17	1.1	1.9	.48	2.3	2.6	1.1	.95	.25	.40	.55	1.2	1.1
18	1.0	5.4	.93	1.6	1.3	1.0	1.0	.25	.20	.50	1.9	1.1
19	1.0	2.9	2.0	1.3	.68	1.1	26	.25	.39	.45	2.2	1.1
20	1.0	44	2.2	1.2	.80	1.2	.04	.25	.34	.40	1.5	1.6
21	1.0	4.9	1.6	1.1	1.1	1.3	0	.25	1.3	.48	.85	1.6
22	1.0	3.8	1.6	1.1	1.8	1.3	0	.25	1.6	.50	1.2	1.2
23	1.0	1.6	1.6	1.1	3.1	1.3	0	.25	.48	.50	1.3	1.2
24	1.0	243	83	1.1	3.0	1.3	.08	.25	0	.55	1.4	1.2
25	1.0	140	455	1.1	2.2	2.1	.02	.25	0	.60	.75	7.0
26	1.0	2.9	26	1.4	1.3	2.1	0	.25	0	.80	1.7	2.4
27	1.0	2.8	17	1.1	1.1	1.3	26	.25	0	14	1.2	.30
28	1.0	2.8	4.0	2.8	1.0	1.0	1.2	.25	0	.80	1.1	.30
29	.90	2.7	2.0	1.4	1.0	1.0	.80	.25	.23	.70	1.1	.30
30	.90	2.7	1.7	.74	---	1.0	.40	.25	0	.70	1.2	.30
31	.80	---	1.6	.74	---	1.7	---	.25	---	.65	1.2	---
TOTAL	343.00	651.95	764.56	51.66	37.31	75.6	86.99	6.13	10.30	25.71	39.18	51.54
MEAN	11.1	21.7	24.7	1.67	1.29	2.44	2.90	.20	.34	.83	1.26	1.72
MAX	270	243	455	12	3.1	39	26	.30	1.6	14	11	15
MIN	.80	.30	.30	.30	.29	1.0	0	0	0	0	.14	.17
AC-FT	680	1290	1520	102	74	150	173	12	20	51	78	102

CAL YR 1983 TOTAL 20093.66 MEAN 55.1 MAX 2530 MIN .16 AC-FT 39860
WTR YR 1984 TOTAL 2143.93 MEAN 5.86 MAX 455 MIN 0 AC-FT 4250

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	240	223	344	1650	282	198	195	178	130	122	148	100
2	566	183	356	1210	273	215	190	169	135	120	131	85
3	644	268	175	303	286	210	186	168	143	122	123	97
4	567	290	181	218	263	209	183	166	141	116	126	98
5	435	285	260	238	261	204	179	160	148	114	125	98
6	495	282	316	267	258	206	197	156	151	117	121	93
7	488	281	392	293	252	215	191	149	150	120	120	93
8	604	279	446	294	244	208	187	148	144	119	111	91
9	588	276	485	331	221	212	184	144	141	111	113	95
10	565	264	483	353	243	207	171	146	138	109	116	114
11	536	254	482	385	248	207	180	144	134	104	114	132
12	516	424	444	403	245	208	183	150	144	102	115	135
13	226	1430	401	403	245	206	172	148	144	100	109	124
14	227	296	398	400	241	230	169	149	141	103	109	117
15	222	128	399	399	228	242	164	150	156	121	110	114
16	218	153	399	315	229	204	159	149	145	138	123	125
17	217	205	401	334	267	208	160	151	146	127	118	199
18	210	256	401	403	238	199	164	146	138	123	122	147
19	222	276	400	398	227	186	201	145	134	117	126	134
20	247	279	417	405	217	183	222	142	130	131	127	125
21	260	263	444	410	221	180	176	146	134	129	128	130
22	239	233	484	401	224	185	157	141	130	125	133	129
23	226	233	619	395	226	180	137	130	131	123	130	131
24	222	140	581	394	225	178	157	142	132	122	119	125
25	213	289	406	341	220	185	159	149	137	117	118	122
26	215	462	702	304	221	190	160	140	133	115	117	113
27	243	462	1210	288	217	195	156	141	121	115	111	120
28	245	266	1940	292	214	186	162	128	117	128	108	118
29	244	273	1910	291	210	189	164	128	119	194	103	116
30	261	211	1850	288	---	188	162	130	125	174	99	110
31	264	---	1780	292	---	187	---	128	---	149	100	---
TOTAL	10665	9164	19506	12698	6946	6200	5227	4561	4112	3827	3673	3530
MEAN	344	305	629	410	240	200	174	147	137	123	118	118
MAX	644	1430	1940	1650	286	242	222	178	156	194	148	199
MIN	210	128	175	218	210	178	137	128	117	100	99	85
AC-FT	21150	18180	38690	25190	13780	12300	10370	9050	8160	7590	7290	7000
CAL YR 1983	TOTAL	234941	MEAN	644	MAX	5590	MIN	15	AC-FT	466000		
WTR YR 1984	TOTAL	90109	MEAN	246	MAX	1940	MIN	85	AC-FT	178700		

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967 to current year.
 CHEMICAL ANALYSES: Water years 1967 to current year.
 BIOLOGICAL DATA: Water years 1975 to current year.
 SPECIFIC CONDUCTANCE: Water years 1970 to current year.
 WATER TEMPERATURES: Water years 1970 to current year.
 SEDIMENT RECORDS: Water years 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 June 1982.

INSTRUMENTATION.--Water-quality monitor recording specific conductance and water temperature since October 1969.

REMARKS.--Periods of missing conductivity and temperature data due to equipment malfunction or fouled probe.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,830 micromhos Apr. 30, 1971; minimum recorded, 220 micromhos Feb. 20, 1978.
 WATER TEMPERATURES: Maximum recorded, 36.0°C Sept. 4, 1972, Sept. 8, 1984; minimum recorded, 2.5°C Dec. 30, 1969.
 SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,870 mg/l. Mar. 5, 1978; minimum daily mean, 3 mg/L Apr. 2, 1980, and several days during 1982.
 SEDIMENT DISCHARGE: Maximum daily, 18,900 tons Mar. 5, 1978; minimum daily, 0.58 tons Sept. 20, 1978.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,230 micromhos Nov. 11, Mar. 5; minimum recorded, 513 micromhos Oct. 3.
 WATER TEMPERATURES: Maximum recorded, 36.0°C Sept. 8; minimum recorded, 9.0°C Jan. 3, Feb. 18-20.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, SATUR- ATION (PER- CENT)	COLI- FORM, FECAL, UM-HF (COLS./ 100 ML)
OCT , 1983										
03...	1000	697	560	--	18.5	--	--	--	--	--
19...	1415	224	1080	--	21.5	--	--	--	--	--
NOV										
04...	1135	296	1100	--	18.5	--	--	--	--	--
17...	0955	242	1280	--	17.0	--	--	--	--	--
17...	1215	242	1230	8.0	17.0	745	9.5	8.8	94	580
DEC										
02...	0915	257	885	--	12.0	--	--	--	--	--
19...	0930	377	975	--	13.0	--	--	--	--	--
JAN , 1984										
09...	1100	356	1140	--	14.0	--	--	--	--	--
24...	0930	355	1120	--	11.5	--	--	--	--	--
24...	1230	355	1120	8.0	11.5	750	26	9.5	89	910
FEB										
09...	0945	227	1180	--	11.5	--	--	--	--	--
22...	1015	231	1170	--	11.5	--	--	--	--	--
MAR										
02...	1015	221	1180	--	13.5	--	--	--	--	--
29...	0935	217	1150	--	14.5	--	--	--	--	--
29...	1145	217	1140	8.0	17.0	740	60	8.1	87	9700
APR										
03...	1300	191	1140	--	20.0	--	--	--	--	--
13...	1045	191	1160	--	19.0	--	--	--	--	--
13...	1230	191	1160	8.0	19.0	745	39	7.4	82	--
MAY										
07...	0945	181	1140	--	17.0	--	--	--	--	--
25...	1300	182	1140	8.1	24.0	740	37	7.4	91	610
25...	1530	182	1140	--	27.0	--	--	--	--	--
JUN										
05...	1315	158	1120	--	21.5	--	--	--	--	--
21...	0800	146	1130	--	18.5	--	--	--	--	--
JUL										
09...	1000	125	1170	--	22.5	--	--	--	--	--
23...	1045	130	1110	--	23.0	--	--	--	--	--
23...	1115	130	1110	8.1	23.0	745	27	7.9	95	390
AUG										
07...	1000	130	1110	--	21.5	--	--	--	--	--
16...	0940	130	1120	--	22.5	--	--	--	--	--
SEP										
07...	1330	98	1130	--	26.5	--	--	--	--	--
25	1055	125	1120	7.9	21.0	740	40	7.8	91	420

11074000 SANTA ANA RIVER BELOW PRADO DAM, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	STREP- TOCOCOI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LILITY FIELD (MG/L AS CACO3)
OCT , 1983										
03...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
NOV										
04...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	1400	340	6	93	25	120	43	3	7.5	240
DEC										
02...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
JAN , 1984										
09...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	1700	380	120	110	26	3	34	2	8.1	262
FEB										
09...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	390	380	110	110	25	9	36	2	9.4	270
APR										
03...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	--	350	100	100	25	7	37	2	8.4	254
MAY										
07...	--	--	--	--	--	--	--	--	--	--
25...	760	320	77	89	23	8	39	2	8.0	241
25...	--	--	--	--	--	--	--	--	--	--
JUN										
05...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
JUL										
09...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
23...	690	340	120	95	24	100	39	2	7.4	218
AUG										
07...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
SEP										
07...	--	--	--	--	--	--	--	--	--	--
25	1400	340	110	96	24	100	38	2	8.0	228

SANTA ANA RIVER BASIN

11074000 SANTA ANA RIVER BELOW PRADO DAM, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT , 1983											
03...	--	--	--	--	328	--	--	--	--	--	--
19...	--	--	--	--	677	--	--	--	--	--	--
NOV											
04...	--	--	--	--	684	--	--	--	--	--	--
17...	--	--	--	--	725	--	--	--	--	--	--
17...	150	140	.5	22	723	710	5.0	5.1	.26	.26	1.8
DEC											
02...	--	--	--	--	606	--	--	--	--	--	--
19...	--	--	--	--	625	--	--	--	--	--	--
JAN , 1984											
09...	--	--	--	--	693	--	--	--	--	--	--
24...	--	--	--	--	708	--	--	--	--	--	--
24...	170	110	.6	23	685	710	6.0	5.7	2.1	2.0	1.2
FEB											
09...	--	--	--	--	731	--	--	--	--	--	--
22...	--	--	--	--	695	--	--	--	--	--	--
MAR											
02...	--	--	--	--	718	--	--	--	--	--	--
29...	--	--	--	--	721	--	--	--	--	--	--
29...	170	120	.7	26	734	740	6.7	6.7	4.3	3.9	1.2
APR											
03...	--	--	--	--	724	--	--	--	--	--	--
13...	--	--	--	--	715	--	--	--	--	--	--
13...	170	110	.6	25	729	700	6.9	.29	2.1	2.2	1.6
MAY											
07...	--	--	--	--	717	--	--	--	--	--	--
25...	150	120	.6	27	698	660	--	--	--	--	--
25...	--	--	--	--	698	--	--	--	--	--	--
JUN											
05...	--	--	--	--	706	--	--	--	--	--	--
21...	--	--	--	--	642	--	--	--	--	--	--
JUL											
09...	--	--	--	--	699	--	--	--	--	--	--
23...	--	--	--	--	671	--	--	--	--	--	--
23...	160	120	.6	27	682	670	--	7.4	--	.09	--
AUG											
07...	--	--	--	--	683	--	--	--	--	--	--
16...	--	--	--	--	698	--	--	--	--	--	--
SEP											
07...	--	--	--	--	716	--	--	--	--	--	--
25	150	120	.4	28	710	670	8.7	8.5	.23	.24	.97

SANTA ANA RIVER BASIN

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11074000 SANTA ANA RIVER BELOW PRADO DAM, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
OCT , 1983											
03...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
NOV											
04...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	1.6	2.1	1.9	7.1	7.0	1.0	.93	1.0	5.6	--	--
DEC											
02...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
JAN , 1984											
09...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
24...	1.0	3.3	3.0	.3	8.7	2.3	2.0	1.9	6.7	5.5	1.6
FEB											
09...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
MAR											
02...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	1.1	5.5	5.0	12	12	2.7	2.9	2.6	8.9	--	--
APR											
03...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	.80	3.7	3.0	11	3.3	4.1	2.9	1.9	8.5	6.3	1.2
MAY											
07...	--	--	--	--	--	--	--	--	--	--	--
25...	1.5	2.5	2.0	3.0	--	3.1	3.2	.25	7.6	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
05...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
JUL											
09...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	1.3	--	--	--	3.0	2.9	2.5	--	--	--
AUG											
07...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
SEP											
07...	--	--	--	--	--	--	--	--	--	--	--
25	1.9	1.2	2.1	.9	--	4.3	3.1	2.8	6.1	--	--

SANTA ANA RIVER BASIN

11074000 SANTA ANA RIVER BELOW PRADO DAM, CA--Continued
 WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
NOV , 1983											
17...	1215	<10	--	4	--	68	<.5	1	--	--	<1
JAN , 1984											
24...	1230	--	5	--	100	--	--	--	<1	10	--
MAR											
29...	1145	10	--	3	--	64	.9	<1	--	--	1
APR											
13...	1230	10	3	3	100	59	.9	<1	<1	10	2
MAY											
25...	1300	<10	--	2	--	54	<1	<1	--	--	<1
SEP											
25...	1055	20	--	3	--	57	<1	<1	--	--	<1

DATE	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
NOV , 1983												
17...	--	<3	--	2	--	6	--	<1	28	--	51	--
JAN , 1984												
24...	8	--	10	--	2300	--	6	--	--	310	--	.1
MAR												
29...	--	<3	--	2	--	10	--	1	16	--	120	--
APR												
13...	2	<3	16	3	5900	3	8	3	18	250	110	.2
MAY												
25...	--	<3	--	2	--	<3	--	4	24	--	69	--
SEP												
25...	--	<3	--	3	--	--	--	2	20	--	73	--

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV , 1983											
17...	<.1	--	3	--	1	1	<1	600	7	--	12
JAN , 1984											
24...	--	13	--	1	--	<1	--	--	--	30	--
MAR											
29...	<.1	--	5	--	<1	<1	<1	660	7	--	26
APR											
13...	.1	11	2	<1	1	<1	<1	660	7	60	30
MAY											
25...	.1	--	6	--	<1	<1	1	620	6	--	17
SEP											
25...	<.1	--	4	--	<1	<1	<1	630	<6	--	7

See footnote at end of table.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	1220	1180	1200	1180	1120	1150	1080	1060	1070
2	---	---	---	1210	1160	1180	1160	1120	1140	1100	1070	1080
3	---	---	---	1220	1150	1180	1150	1120	1130	1110	1080	1100
4	---	---	---	1200	1150	1180	1160	1110	1130	1120	1100	1110
5	---	---	---	1230	1140	1180	1160	1120	1140	1120	1100	1110
6	---	---	---	1200	1160	1180	1160	1120	1130	1140	1110	1120
7	---	---	---	1170	1140	1160	1130	1090	1120	1210	1130	1160
8	---	---	---	1160	1130	1140	1150	1100	1120	1220	1150	1180
9	---	---	---	1160	1110	1140	1150	1120	1140	1210	1180	1190
10	---	---	---	1160	1120	1140	1170	1130	1140	1200	1160	1180
11	---	---	---	1160	1120	1130	1170	1130	1150	1200	1150	1180
12	---	---	---	1160	1110	1130	1180	1140	1160	1170	1130	1160
13	---	---	---	1160	1130	1140	1180	1100	1150	1140	1120	1130
14	---	---	---	1140	1070	1110	1120	1060	1080	1140	1090	1110
15	1190	1160	1180	1140	1070	1100	1050	1020	1030	1110	1080	1100
16	---	---	---	1140	1090	1120	1030	999	1020	1120	1080	1100
17	---	---	---	1150	1090	1120	1030	999	1020	1100	1070	1090
18	1210	1150	1170	1160	1100	1130	1020	1010	1020	1100	1070	1080
19	1210	1160	1180	1150	1110	1130	---	---	---	1120	1070	1090
20	1210	1170	1180	1140	1100	1120	1020	946	980	1110	1080	1100
21	1210	1160	1180	1160	1120	1140	1040	999	1020	1120	1080	1100
22	---	---	---	1160	1120	1130	1050	1020	1040	1120	1080	1100
23	1210	1130	1170	1160	1130	1150	1070	1040	1050	1150	1120	1130
24	1220	1130	1170	1160	1140	1150	1060	1040	1040	1140	1120	1130
25	1200	1160	1180	1160	1140	1150	1060	1040	1040	1170	1120	1140
26	1220	1160	1180	1160	1140	1150	1060	1040	1050	1190	1140	1160
27	1210	1170	1190	1160	1140	1150	1060	1040	1050	1200	1150	1170
28	1200	1160	1180	1170	1140	1150	1070	1040	1050	1200	1160	1180
29	1200	1150	1180	1210	1150	1180	1080	1050	1060	1200	1150	1170
30	---	---	---	1210	1150	1180	1080	1060	1070	1180	1140	1160
31	---	---	---	1200	1150	1180	---	---	---	1170	1140	1150
MONTH	---	---	---	1230	1070	1150	---	---	---	1220	1060	1130
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1150	1120	1130	1160	1100	1130	1070	1040	1060	1110	1060	1080
2	1140	1110	1120	1160	1120	1140	1110	1050	1080	1140	755	1020
3	1140	1110	1130	1170	1110	1140	1130	1090	1110	1130	1100	1120
4	1140	1120	1130	1170	1120	1150	1130	1090	1110	1130	1100	1110
5	1120	1100	1110	1170	1130	1150	1120	1100	1110	1130	1110	1120
6	1120	1090	1110	1170	1140	1160	1120	1090	1110	1140	1110	1120
7	1120	1100	1110	1180	1140	1160	1140	1100	1120	1150	1110	1130
8	1140	1100	1120	1180	1150	1160	1160	1120	1140	1140	1110	1120
9	1140	1110	1120	1200	1160	1180	1140	1110	1130	1120	1090	1110
10	1130	1110	1120	1190	1140	1170	1120	1100	1110	1140	1100	1110
11	1120	1090	1110	1210	1160	1180	1120	1090	1100	1100	1070	1090
12	1110	1090	1100	1200	1160	1190	1100	1080	1090	1110	1080	1100
13	1120	1080	1100	1220	1170	1200	1110	1080	1090	1120	1090	1100
14	1090	1070	1080	1200	1170	1180	1110	1070	1100	1120	1090	1110
15	1080	1040	1060	1190	1150	1170	1130	1090	1120	1120	1090	1110
16	1080	1040	1060	1190	1130	1160	1130	1090	1110	1110	1060	1090
17	1100	1060	1070	1160	1120	1140	1120	1100	1110	1120	1040	1090
18	1100	1060	1080	1150	1120	1130	1120	1090	1100	1120	1090	1110
19	1110	1080	1100	1150	1110	1130	1110	1100	1100	1160	1090	1120
20	1140	1100	1120	1130	1100	1110	1110	1090	1100	1140	1110	1130
21	1160	1110	1130	1130	1100	1110	1120	1100	1100	1140	1100	1120
22	1160	1130	1150	1120	1100	1100	1120	1080	1100	1140	1110	1130
23	1170	1130	1140	1120	1080	1100	1090	1060	1080	1150	1120	1130
24	1150	1130	1140	1110	1070	1100	1100	1060	1080	1150	1130	1130
25	1160	1110	1140	1130	1090	1110	1090	1070	1080	1180	1120	1140
26	1160	1110	1140	1120	1100	1110	1090	1060	1070	1200	1110	1160
27	1160	1130	1150	1120	1100	1110	1100	1060	1080	1130	1110	1120
28	1170	1130	1150	1120	1090	1100	1110	1060	1080	1130	1100	1120
29	1160	1120	1140	1100	1020	1060	1120	1070	1090	1120	1090	1110
30	1150	1120	1130	1050	1020	1030	1120	1080	1100	1130	1100	1110
31	---	---	---	1060	1020	1040	1110	1080	1090	---	---	---
MONTH	1170	1040	1120	1220	1020	1130	1160	1040	1100	1200	755	1110
YEAR	1230	513	1080									

11074000 SANTA ANA RIVER BELOW PRADO DAM, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	12.5	11.0	11.5	14.5	13.0	13.5
2	19.0	18.5	18.5	---	---	---	12.5	11.0	11.5	13.5	11.0	12.5
3	19.0	18.5	19.0	19.5	18.0	18.5	---	---	---	14.5	9.0	11.5
4	19.0	19.0	19.0	19.5	17.5	18.5	---	---	---	13.5	11.0	12.0
5	20.0	19.0	19.5	19.5	18.0	19.0	12.5	11.5	12.0	13.0	12.0	12.5
6	21.0	20.0	20.0	20.0	18.0	19.0	12.5	12.0	12.0	13.5	12.5	13.0
7	20.5	20.0	20.5	19.5	18.0	18.5	12.5	12.0	12.5	14.0	13.0	13.5
8	21.0	21.0	21.0	19.5	18.0	18.5	12.5	12.0	12.0	14.0	13.0	14.0
9	21.0	21.0	21.0	18.5	16.0	17.0	12.0	12.0	12.0	14.5	13.0	13.5
10	21.0	20.5	21.0	17.5	16.0	16.5	12.5	12.0	12.0	14.5	13.0	14.0
11	21.5	20.5	21.0	17.5	16.0	16.5	12.5	12.0	12.5	14.5	12.5	13.5
12	22.5	20.0	21.0	18.0	17.0	17.0	12.5	12.0	12.0	12.5	12.0	12.0
13	23.0	17.5	20.5	20.0	17.0	18.5	12.5	12.0	12.5	13.0	12.0	12.0
14	23.0	18.0	20.0	23.5	16.0	18.0	12.5	12.0	12.0	13.0	12.0	12.5
15	22.0	18.5	20.0	18.0	15.5	16.5	13.0	12.0	12.5	13.0	11.5	12.0
16	23.0	18.0	20.0	17.0	15.0	16.0	13.0	12.0	12.5	12.5	11.0	12.0
17	21.5	19.0	20.0	17.0	16.0	16.5	12.5	12.0	12.5	11.5	10.5	11.0
18	22.5	17.5	20.0	17.5	16.0	17.0	13.5	12.5	12.5	11.5	10.5	11.0
19	23.0	17.5	20.0	17.5	16.0	17.0	13.5	12.5	13.0	11.5	11.0	11.0
20	22.5	18.5	20.0	16.5	15.0	16.0	13.5	12.5	13.0	12.0	11.0	11.5
21	23.0	18.5	20.5	15.0	13.5	15.0	13.0	12.5	13.0	12.5	11.0	11.5
22	23.0	17.5	20.0	14.5	12.5	13.5	13.5	13.0	13.0	13.5	11.0	12.0
23	22.5	17.0	19.5	13.5	12.0	12.5	13.0	12.5	13.0	13.5	12.0	12.5
24	22.5	18.0	20.0	---	---	---	---	---	---	15.5	11.0	13.0
25	22.5	16.5	19.0	---	---	---	---	---	---	18.0	12.0	14.5
26	23.0	16.5	19.5	13.0	12.0	12.5	13.5	13.0	13.0	15.0	11.0	13.0
27	22.5	17.0	20.0	12.5	12.0	12.0	14.0	13.0	13.5	---	---	---
28	23.0	18.0	20.0	12.5	11.0	11.5	14.5	14.0	14.0	---	---	---
29	22.0	18.5	20.0	11.5	11.0	11.5	14.0	13.0	13.5	---	---	---
30	22.5	19.0	20.5	12.5	11.0	11.5	13.5	13.0	13.5	---	---	---
31	22.0	19.0	20.0	---	---	---	13.5	13.0	13.5	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	20.5	12.5	16.0	20.5	11.5	15.5	22.0	15.5	18.5
2	---	---	---	21.0	13.0	16.5	22.0	12.5	17.0	24.0	16.0	19.5
3	---	---	---	21.0	14.0	17.0	23.0	13.5	18.0	26.0	16.0	20.5
4	---	---	---	22.0	15.5	18.0	18.5	15.5	17.0	26.0	17.5	21.0
5	---	---	---	18.5	11.5	14.5	22.0	15.0	17.5	25.5	16.5	20.5
6	---	---	---	20.0	10.0	14.5	21.5	15.5	18.0	26.0	15.5	20.0
7	---	---	---	19.0	11.5	15.0	23.5	14.0	18.0	27.0	16.5	21.5
8	---	---	---	20.5	11.5	16.0	23.0	15.0	18.5	28.0	17.5	22.5
9	---	---	---	21.5	13.5	17.0	24.0	16.0	19.0	28.0	17.5	22.0
10	---	---	---	22.0	14.0	17.5	23.0	15.0	18.5	27.5	18.0	22.0
11	---	---	---	21.5	14.0	17.5	24.5	16.0	19.5	27.0	18.5	22.0
12	---	---	---	21.5	14.0	17.5	25.0	15.5	19.5	27.5	18.0	22.5
13	---	---	---	21.5	15.0	18.0	25.5	15.5	20.5	28.5	19.0	23.0
14	---	---	---	21.0	16.5	18.0	26.0	16.5	21.0	25.5	19.5	22.0
15	18.5	11.0	14.5	22.0	14.5	17.5	26.0	16.5	21.0	25.0	17.0	20.5
16	---	---	---	22.0	14.0	17.5	24.5	16.0	20.0	26.0	16.0	20.5
17	---	---	---	20.0	14.5	17.0	25.0	16.5	20.0	26.0	17.0	21.0
18	18.0	9.0	13.5	22.0	13.5	17.0	24.0	17.0	19.5	26.5	17.0	21.0
19	16.5	9.0	12.0	23.5	13.0	18.0	---	---	---	27.0	17.5	21.5
20	18.5	9.0	13.5	23.5	13.5	18.0	22.5	14.0	17.5	27.0	17.5	22.0
21	17.5	9.5	13.0	22.5	14.0	18.0	24.0	13.5	18.5	26.5	18.5	21.5
22	---	---	---	24.0	15.5	19.0	25.0	14.5	19.5	27.0	19.0	22.0
23	19.0	10.5	14.5	23.5	14.0	18.5	25.5	15.5	20.0	27.5	19.0	22.5
24	19.0	11.0	14.5	22.0	14.0	18.0	25.0	16.5	20.0	27.0	19.0	22.5
25	19.5	12.0	15.5	23.0	15.0	18.5	22.5	16.0	19.0	28.0	19.5	23.0
26	18.0	12.0	14.5	18.0	16.0	17.0	21.5	13.0	17.0	28.0	19.0	23.0
27	19.5	11.5	15.0	23.5	14.5	18.5	19.0	13.0	16.5	28.5	19.0	23.5
28	20.0	11.0	15.0	23.0	14.5	18.5	21.0	13.5	17.0	30.0	19.5	24.0
29	20.0	11.5	15.5	22.5	13.5	18.0	22.0	15.0	18.5	28.5	19.5	23.5
30	---	---	---	22.5	13.5	17.5	22.5	16.0	19.0	27.0	21.0	23.5
31	---	---	---	19.0	13.5	16.0	---	---	---	28.0	20.0	23.0
MONTH	---	---	---	24.0	10.0	17.5	26.0	11.5	18.5	30.0	15.5	22.0

SANTA ANA RIVER BASIN

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11075620 SANTA ANA RIVER SPREADING DIVERSION BELOW IMPERIAL HIGHWAY, NEAR ANAHEIM, CA

LOCATION.--Lat 33°51'23", long 117°48'00", in Canon De Santa Ana, Orange County, Hydrologic Unit 18070203, on diversion channel, 100 ft downstream from diversion point, 0.1 mi south of La Palma Avenue, 0.6 mi west of Imperial Highway, and 7.8 mi east of Anaheim.

PERIOD OF RECORD.--July 1974 to current year. Records prior to Sept. 30, 1976, in files of the Geological Survey.

GAGE.--Water-stage recorder and concrete Parshall flume control. Altitude of gage is 262 ft, from topographic map.

REMARKS.--Records poor. Water is diverted from Santa Ana River at diversion point 100 ft upstream, for recharging to spreading basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 431 ft³/s Jan. 14, 1978; no flow for some periods in each year.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 400 ft³/s Dec. 23 (estimated); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	190	10	240	156	185	135	102			
2		0	265	10	232	167	178	136	104			
3		0	183	10	240	167	157	134	108			
4		0	112	180	228	165	140	136	107			
5		0	194	200	227	160	137	131	108			
6		0	283	220	222	162	147	127	109			
7		0	280	270	221	169	149	121	109			
8		0	320	280	199	161	145	120	105			
9		0	360	311	181	167	140	117	103			
10		0	370	317	192	165	127	118	100			
11		0	370	335	198	165	132	114	96			
12		0	370	359	196	166	138	118	100			
13		0	350	359	197	166	130	117	101			
14		39	350	358	195	175	128	115	99			
15		111	350	357	182	186	125	120	107			
16		150	350	343	185	165	123	116	106			
17		183	350	271	205	165	124	117	104			
18		230	350	356	198	160	123	113	101			
19		259	350	351	183	146	149	114	99			
20		265	360	341	175	144	176	112	36			
21		227	370	342	177	150	148	113	0			
22		208	380	334	179	170	140	112	0			
23		207	400	326	181	168	121	103	0			
24		184	10	325	179	169	131	112	0			
25		70	10	296	174	175	126	116	0			
26		96	10	256	178	177	125	116	0			
27		97	10	248	172	189	123	113	0			
28		148	10	248	169	178	125	105	0			
29		206	10	248	170	179	129	104	0			
30		217	10	244	---	177	130	105	0			
31		---	10	244	---	177	---	102	---			---
TOTAL	0	2897	7337	8349	5675	5186	4151	3632	2004	0	0	0
MEAN	0	96.6	237	269	196	167	138	117	66.8	0	0	0
MAX	0	265	400	359	240	189	185	136	109	0	0	0
MIN	0	0	10	10	169	144	121	102	0	0	0	0
AC-FT	0	5750	14550	16560	11260	10290	8230	7200	3970	0	0	0
WTR YR 1984	TOTAL	39231	MEAN	107	MAX	400	MIN	0	AC-FT	77810		

SANTA ANA RIVER BASIN

11075720 CARBON CREEK BELOW CARBON CANYON DAM, CA

LOCATION.--Lat 33°54'40", long 117°50'29", in SW¼ sec.17, T.3 S., R.9 W., Orange County, Hydrologic Unit 18070106, on right wall of outlet channel 250 ft downstream from toe of Carbon Canyon Dam, and 2.4 mi northwest of Yorba Linda.

DRAINAGE AREA.--19.5 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 396.29 ft Corps of Engineers datum. Prior to Dec. 3, 1971, at datum 2.00 ft higher.

REMARKS.--Records fair. Flow regulated by Carbon Canyon flood-control reservoir, capacity, 6,610 acre-ft. No diversion above station. See schematic diagram of Santa Ana River basin.

AVERAGE DISCHARGE.--23 years, 1.18 ft³/s, 858 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 554 ft³/s Mar. 1, 1983, gage height, 5.11 ft, present datum, from rating curve extended above 110 ft³/s on basis of optical current meter measurement at 241 ft³/s and computation of flow in concrete-lined channel at gage heights 6.18 ft and 4.12 ft; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 32.0 ft³/s Nov. 24, gage height, 2.60 ft, from rating curve extended as explained above; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	.04	.10	.42	0	.12	.17	.04				
2	6.2	.10	.10	.41	0	.04	.16	.04				
3	.08	.11	2.6	.39	0	0	.06	0				
4	.07	.07	5.1	.38	0	0	0	0				
5	.07	.02	2.5	.37	0	0	0	0				
6	.06	.02	1.3	.36	0	0	0	0				
7	.06	.02	.98	.35	0	0	0	0				
8	.05	.02	.98	.35	0	0	0	0				
9	.04	.04	1.5	.35	0	0	0	0				
10	.04	.02	1.4	.35	0	0	0	0				
11	2.6	.40	0	.35	0	0	0	0				
12	.04	3.9	0	.49	0	0	0	0				
13	.04	.02	0	.51	0	0	0	0				
14	.04	.02	0	.63	0	.14	0	0				
15	.04	.02	0	.63	0	.06	0	0				
16	.04	.02	0	1.2	0	.05	0	0				
17	.04	.02	0	.03	0	.04	0	0				
18	.02	1.2	0	.03	.03	.04	0	0				
19	.03	.64	0	.35	.01	.04	.68	0				
20	.04	3.0	0	0	.07	0	.13	0				
21	.04	.02	0	0	.04	0	.07	0				
22	.04	.02	0	0	.02	0	.06	0				
23	.04	.01	0	0	.02	0	.06	0				
24	.04	5.7	2.4	0	.02	0	.06	0				
25	.02	11	9.4	0	.02	0	.06	0				
26	.02	1.5	.56	.07	0	.25	.05	0				
27	.02	.20	.52	.05	0	.31	.04	0				
28	.02	.10	.49	.06	.03	.35	.04	0				
29	.02	.10	.46	.14	0	.24	.04	0				
30	.02	.10	.45	.09	---	.16	.04	0				
31	.02	---	.43	.06	---	.17	---	0	---			---
TOTAL	17.60	28.45	31.27	8.42	.26	2.01	1.72	.08	0	0	0	0
MEAN	.57	.95	1.01	.27	.009	.065	.057	.003	0	0	0	0
MAX	7.7	11	9.4	1.2	.07	.35	.68	.04	0	0	0	0
MIN	.02	.01	0	0	0	0	0	0	0	0	0	0
AC-FT	35	56	62	17	.5	4.0	3.4	.2	0	0	0	0
CAL YR 1983	TOTAL	1898.10	MEAN 5.20	MAX 322	MIN 0	AC-FT 3760						
WTR YR 1984	TOTAL	89.81	MEAN .25	MAX 11	MIN 0	AC-FT 178						

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11075755 SANTA ANA RIVER AT BALL ROAD, AT ANAHEIM, CA

LOCATION.--Lat 33°49'00", long 117°52'17", in SE1SW1 sec.24, T.4 S., R.10 W., Orange County, Hydrologic Unit 18070203, 350 ft south of Ball Road, 0.6 mi west of Batavia Street, 1.0 mi east of State College Boulevard in Anaheim, and 16 mi downstream from Prado Dam.

DRAINAGE AREA.--1,587 mi², excludes 768 mi² above Lake Elsinore.

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

GAGE.--Water-stage recorder with concrete cut-off wall. Altitude of gage is 170 ft, from topographic map.

REMARKS.--Records poor. River flow is regulated by Prado Dam, infiltration ponds and diversions.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,500 ft³/s Mar. 1, 1981, gage height 6.17 ft from rating curve extended above 7,000 ft³/s; no flow for many months each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,450 ft³/s Dec. 27, gage height, 3.65 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1500	105	0	1410	2.2	1.2	25			0	.95	
2	370	91	2.7	1020	2.2	0	30			0	0	
3	540	10	1.3	175	2.2	0	23			0	0	
4	450	40	0	51	1.9	0	11			0	0	
5	120	39	0	11	1.7	0	7.9			0	0	
6	320	38	0	7.5	1.7	0	9.3			0	0	
7	201	38	0	11	1.5	0	11			.08	0	
8	342	37	0	11	1.3	28	12			5.5	0	
9	403	36	0	10	1.3	5.0	12			3.4	0	
10	510	35	28	6.1	1.2	1.7	7.2			.03	0	
11	454	6.0	55	15	.88	.22	3.7			.52	0	
12	550	196	47	14	.88	0	4.5			8.6	0	
13	135	1390	.26	14	2.0	0	4.5			3.0	0	
14	24	1/4	.03	22	3.4	0	3.3			0	0	
15	25	2.4	.98	30	1.5	9.7	2.4			0	0	
16	24	.15	2.4	33	.58	11	1.7			0	0	
17	23	0	2.7	10	0	1.3	.88			0	0	
18	23	0	14	0	0	0	.67			0	0	
19	44	0	21	.79	0	0	4.1			0	0	
20	49	82	26	3.7	0	0	10			0	0	
21	50	21	14	3.4	0	0	21			0	0	
22	48	1.9	7.2	4.1	31	0	15			0	0	
23	26	.05	49	3.0	18	0	11			0	0	
24	21	248	372	3.0	7.2	0	3.7			0	0	
25	22	159	434	2.4	12	0	.91			0	0	
26	23	183	253	.50	9.3	3.4	0			0	0	
27	24	183	1540	11	9.3	5.5	0			0	0	
28	26	116	1640	11	8.6	18	0			0	0	
29	23	.04	1610	2.4	3.4	20	0			0	0	
30	21	0	1550	2.4	---	23	0			.08	0	
31	20	---	1520	2.4	---	18	---			6.6	0	---
TOTAL	6611	3231.54	9190.57	2900.69	125.24	146.02	235.76	0	0	27.81	.95	0
MEAN	213	108	296	93.6	4.32	4.71	7.86	0	0	.90	.031	0
MAX	1500	1390	1640	1410	31	28	30	0	0	8.6	.95	0
MIN	20	0	0	0	0	0	0	0	0	0	0	0
AC-FT	13110	6410	18230	5750	248	290	468	0	0	55	1.9	0
CAL YR 1983 TOTAL	162405.44			MEAN 445	MAX 6500	MIN 0	AC-FT 322100					
WTR YR 1984 TOTAL	22469.58			MEAN 61.4	MAX 1640	MIN 0	AC-FT 44570					

SANTA ANA RIVER BASIN

11075800 SANTIAGO CREEK AT MODJESKA, CA

LOCATION.--Lat 33°42'32", long 117°38'05", in SE1NW1 sec.29, T.5 S., R.7 W., Orange County, Hydrologic Unit 18070203, on right bank at Modjeska road bridge, 0.3 mi west of Modjeska, and 0.4 mi downstream from Harding Creek.

DRAINAGE AREA.--12.5 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 1,254.35 ft National Geodetic Vertical Datum of 1929. Prior to Sept. 10, 1969, at datum 4.42 ft 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.--23 years, 8.64 ft³/s, 6,260 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,520 ft³/s Feb. 25, 1969, gage height, 10.50 ft, present datum, at site then in use, from rating curve extended above 840 ft³/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 and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 24	2400	*490	4.85
Dec. 25	1700	175	4.38

No flow several days during August and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	1.4	6.5	19	3.9	2.4	1.7	1.4	.26	.24	.14	.01
2	18	1.5	6.5	16	3.9	2.4	1.7	1.3	.21	.23	.14	.01
3	11	1.4	14	14	3.9	2.4	1.7	1.3	.21	.22	.26	.01
4	8.1	1.2	20	12	3.7	2.2	1.6	1.0	.22	.21	.14	.01
5	6.2	1.4	10	11	3.9	2.2	1.6	.91	.23	.21	.14	.01
6	5.6	1.4	7.6	11	3.7	2.4	1.7	.91	.27	.20	.08	.01
7	5.6	1.4	6.8	9.7	3.7	2.2	1.7	.79	.40	.20	.14	.01
8	5.6	1.4	6.2	9.3	3.7	2.2	1.7	.63	.55	.19	.11	.01
9	5.4	1.4	6.5	8.5	3.5	2.0	1.7	.55	.80	.19	.31	.01
10	4.5	1.4	6.2	8.5	3.3	2.0	1.6	.55	.71	.17	.11	.01
11	3.3	2.6	5.6	7.6	3.5	2.0	1.5	.48	.63	.16	.06	.26
12	2.2	58	5.6	6.5	3.3	2.0	1.3	.48	.55	.15	.08	.08
13	2.0	57	5.1	6.2	3.3	2.4	1.1	.55	.48	.14	.08	.04
14	2.2	40	4.8	6.2	3.3	2.6	.91	.48	.55	.13	.08	.01
15	2.2	27	4.2	5.9	3.3	2.8	.71	.55	.48	.12	.11	.01
16	2.6	20	4.2	5.6	3.1	2.4	.31	.63	.55	.12	.06	.01
17	2.6	15	3.9	5.6	3.5	2.4	.48	.71	.48	.11	.04	.01
18	2.6	13	3.7	5.4	3.3	2.4	.71	.63	.42	.10	.06	.01
19	2.2	11	3.7	5.1	3.1	2.2	1.9	.55	.40	.10	.06	.01
20	1.7	31	3.5	4.8	2.9	1.9	2.4	.48	.37	.09	.04	0
21	1.5	36	3.5	4.8	2.7	1.7	1.6	.42	.35	.08	.02	.01
22	1.2	27	3.5	4.8	2.7	1.7	1.2	.55	.33	.08	.02	.06
23	.79	22	3.3	4.5	2.9	1.7	1.0	.48	.31	.07	0	.11
24	.79	45	3.9	4.2	2.8	1.6	.91	.48	.30	.06	0	.08
25	.71	73	95	3.9	2.8	1.6	1.0	.48	.29	.01	0	.08
26	.71	14	97	4.2	2.6	1.7	1.0	.42	.28	.01	0	.14
27	.63	8.1	78	4.5	2.4	1.7	1.2	.48	.27	.01	.01	.04
28	.63	6.8	62	4.5	2.4	1.6	1.6	.42	.26	.03	.01	.02
29	1.0	6.2	40	4.2	2.6	1.4	1.5	.31	.25	.05	.01	0
30	1.0	6.5	30	4.2	---	1.4	1.4	.26	.24	.09	.01	0
31	1.4	---	24	4.2	---	1.4	---	.26	---	.12	.01	---
TOTAL	154.96	533.1	574.8	225.9	93.7	63.0	40.43	19.44	11.65	3.89	2.33	1.08
MEAN	5.00	17.8	18.5	7.29	3.23	2.03	1.35	.63	.39	.13	.075	.036
MAX	51	73	97	19	3.9	2.8	2.4	1.4	.80	.24	.31	.26
MIN	.63	1.2	3.3	3.9	2.4	1.4	.31	.26	.21	.01	0	0
AC-FT	307	1060	1140	448	186	125	80	39	23	7.7	4.6	2.1
CAL YR 1983 TOTAL	9718.10			MEAN 26.6	MAX 800	MIN .63	AC-FT 19280					
WTR YR 1984 TOTAL	1724.28			MEAN 4.71	MAX 97	MIN 0	AC-FT 3420					

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LOCATION.--Lat 33°46'13", long 117°53'01", in SW1NW1 sec.1, T.5 S., R.10 W., Orange County, Hydrologic Unit 18070203, on left bank 127 ft upstream from Bristol Street bridge at Santa Ana, and 1,700 ft upstream from mouth at Santa Ana River.

PERIOD OF RECORD.--October 1928 to current year. Monthly discharge only October to December 1928, published in WSP 1315-B.

REMARKS.--Records poor. Flow regulated by Santiago Reservoir, capacity, 25,000 acre-ft, since January 1963 by Villa Park flood-control reservoir, capacity, 15,500 acre-ft, 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. Periodic discharge to channel from pump tests of domestic wells by City of Santa Ana during July.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,600 ft³/s Feb. 25, 1969, gage height, 9.10 ft, site and datum then in use; maximum gage height, 9.85 ft Jan. 16, 1952, site and datum then in use; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,420 ft³/s Oct. 1, gage height, 5.48 ft; no flow for several months.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	133	0	0	0		0	0			0		
2	0	0	0	0		0	0			0		
3	0	0	3.0	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	.10			0		
7	0	0	0	0		0	0			0		
8	0	0	0	0		0	0			0		
9	0	0	0	0		0	0			1.9		
10	0	0	0	0		0	0			2.1		
11	0	.21	0	0		0	0			2.4		
12	0	13	0	0		0	0			2.7		
13	0	0	0	0		0	0			0		
14	0	0	0	0		.04	0			3.3		
15	0	0	0	0		0	0			0		
16	0	0	0	1.0		0	0			2.1		
17	0	0	0	0		0	0			3.4		
18	0	0	0	0		0	0			0		
19	0	0	0	0		0	.04			0		
20	0	13	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	60	20	0		0	0			0		
25	0	4.2	0	0		0	0			0		
26	0	0	3.8	0		0	0			0		
27	0	0	0	0		0	2.3			0		
28	0	0	0	0		0	0			0		
29	0	0	0	0		0	0			0		
30	0	0	0	0	---	0	0			0		
31	0	---	0	0	---	0	---		---	0		---
TOTAL	133	90.41	26.8	1.0	0	.04	2.44	0	0	17.9	0	0
MEAN	4.29	3.01	.86	.032	0	.001	.081	0	0	.58	0	0
MAX	133	60	20	1.0	0	.04	2.3	0	0	3.4	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	264	179	53	2.0	0	.08	4.8	0	0	36	0	0
CAL YR 1983	TOTAL	1939.01	MEAN 5.31	MAX 379	MIN 0	AC-FT 3850						
WTR YR 1984	TOTAL	271.59	MEAN .74	MAX 133	MIN 0	AC-FT 539						

SANTA ANA RIVER BASIN

11078000 SANTA ANA RIVER AT SANTA ANA, CA

LOCATION.--Lat 33°44'46", long 117°54'30", in SW¼SE¼ sec.10, T.5 S., R.10 W., Orange County, Hydrologic Unit 18070203, on right bank 50 ft downstream from Fifth Street Bridge in Santa Ana and 1.8 mi downstream from Santiago Creek.

DRAINAGE AREA.--1,700 mi², excludes 768 mi² above Lake Elsinore.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1923 to current year.

REVISED RECORDS.--WDR CA-74-1: Drainage area. WDR CA-79-1: 1978 (M).

GAGE.--Water-stage recorder. Datum of gage is 61.23 ft Orange County Datum. Jan. 3, 1923, to Jan. 24, 1929, at same site at different datum. Jan. 25, 1929, to June 20, 1948, at site 450 ft 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 27.00 ft higher. Oct. 2, 1961, to Nov. 28, 1979, at same site at datum 25.00 ft higher. Nov. 29, 1979 to present, at same site at datum 20.00 ft higher. Apr. 21, 1980, to Aug. 14, 1981, no gage due to rebuilding of channel.

REMARKS.--Records poor, except periods of no flow, which are fair. Natural flow affected by ground-water withdrawals, diversions, importation by Metropolitan Water District, municipal use, return flow from irrigation. Since 1940, natural flow affected by Prado flood-control reservoir, capacity, 201,200 acre-ft, three small flood-control reservoirs, combined capacity, 31,900 acre-ft, Big Bear Lake (station 11049000), and Santiago Reservoir, capacity, 25,000 acre-ft. Discharge up to 100 ft³/s can be diverted from Carbon Creek to Coyote Creek 1.5 mi upstream from mouth of Carbon Creek. See schematic diagram of Santa Ana River basin.

AVERAGE DISCHARGE.--17 years (water years 1924-40), 23.4 ft³/s, 16,940 acre-ft/yr; 44 years (unadjusted for storage since 1940) 54.3 ft³/s, 39,340 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46,300 ft³/s Mar. 3, 1938, gage height, 10.20 ft, 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, 7,120 ft³/s Oct. 1, gage height, 7.01 ft; no flow many days during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1890	.15	2.9	1150			0			.02	0	.03
2	202	.07	2.3	1010			0			0	0	.06
3	201	.05	9.1	215			0			0	0	.05
4	190	.05	2.4	46			.23			0	0	.04
5	144	.04	1.4	4.2			.02			0	0	.05
6	148	.04	1.1	.12			1.4			0	0	.04
7	80	.04	1.0	.60			.08			0	0	.03
8	139	.04	1.0	.80			.02			0	0	.03
9	145	.04	1.5	.53			.02			0	0	.03
10	138	.08	1.5	.35			.02			0	0	.04
11	123	.45	2.4	.02			.02			0	0	.07
12	117	.168	19	0			0			0	0	.15
13	60	.1820	4.1	0			0			0	0	.18
14	4.0	.195	1.3	0			0			0	0	.08
15	.10	10	.92	1.7			0			0	0	.05
16	.08	.18	.82	15			0			0	.01	.07
17	.08	.08	.78	2.9			0			.05	.01	.08
18	.07	.04	.78	.03			0			.44	.01	.13
19	.07	.04	2.5	0			.21			0	.02	.11
20	.05	23	8.6	0			0			0	.02	.14
21	.06	16	6.9	0			0			0	.03	.18
22	.07	4.6	3.1	0			0			0	.02	.19
23	.07	.14	9.3	0			0			0	.02	.16
24	.06	357	128	0			.02			0	.03	.13
25	.03	211	211	0			0			0	.05	.10
26	.03	125	50	0			0			0	.05	.16
27	.04	136	402	0			.74			0	.05	.18
28	.05	92	1420	0			.04			0	.03	.14
29	.05	3.2	1350	0			0			0	.03	.19
30	.06	1.9	1320	0			0			0	.03	.11
31	.06	---	1240	0	---	---	---		---	.01	.03	---
TOTAL	3582.03	3208.78	6205.70	2447.25	0	0	2.82	0	0	.52	.44	3.00
MEAN	116	107	200	78.9	0	0	.094	0	0	.017	.014	.10
MAX	1890	1820	1420	1150	0	0	1.4	0	0	.44	.05	.19
MIN	.03	.04	.78	0	0	0	0	0	0	0	0	.03
AC-FT	7100	6360	12310	4850	0	0	5.6	0	0	1.0	.9	6.0

CAL YR 1983 TOTAL 151338.52 MEAN 415 MAX 7380 MIN 0 AC-FT 300200
WTR YR 1984 TOTAL 15450.54 MEAN 42.2 MAX 1890 MIN 0 AC-FT 30650

11078000 SANTA ANA RIVER AT SANTA ANA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968-71, 1973 to current year.

WATER TEMPERATURES: Water years 1968-71, 1973 to current year.

SEDIMENT RECORDS: Water years 1968-71, 1973 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1967 to September 1969, October 1970 to September 1971, October 1972 to September 1980, October 1981 to current year.

SEDIMENT RECORDS: October 1967 to September 1971, October 1972 to September 1980, October 1981 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean (water years 1968-71, 1973-80, 1982-84), 78,000 mg/L

Feb. 25, 1969; minimum daily mean, no flow for many days each year.

SEDIMENT DISCHARGE: Maximum daily (water years 1968-71, 1973-80, 1982-84), 2,670,000 tons Feb. 25, 1969; minimum daily, 0 tons on many days each year.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, unknown, Oct. 1; minimum daily mean, no flow for many days.

SEDIMENT DISCHARGE: Maximum daily, 44,400 tons Oct. 1; minimum daily, 0 tons on many days.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.0		---	---								
2	24.0		---	---								
3	24.0		---	16.0								
4	21.0		---	17.5								
5	23.0		---	14.0								
6	25.5		---	---								
7	22.5		---	---								
8	---		---	---								
9	---		---	---								
10	25.0		---	---								
11	26.0		---	---								
12	25.5		---	---								
13	23.0		14.0	---								
14	24.5		19.0	---								
15	---		---	---								
16	---		---	---								
17	---		---	---								
18	---		16.5	---								
19	---		17.0	---								
20	---		15.0	---								
21	---		---	---								
22	---		14.0	---								
23	---		15.0	---								
24	---		---	---								
25	---		17.0	---								
26	---		17.0	---								
27	---		15.0	---								
28	---		---	---								
29	---		14.5	---								
30	---		---	---								
31	---		---	---								
MONTH	---		---	---								

SANTA ANA RIVER BASIN

11078000 SANTA ANA RIVER AT SANTA ANA, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	OCTOBER				NOVEMBER			DECEMBER	
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2200	---	44400	.04	---	0	2.0	---	.80
2	210	1250	709	0	0	0	1.5	---	.50
3	419	1180	1330	0	0	0	8.9	---	3.0
4	405	804	922	0	0	0	1.6	---	.20
5	288	1050	1100	0	0	0	.71	---	.10
6	320	585	505	0	0	0	.50	---	.08
7	164	235	104	0	0	0	.46	---	.06
8	301	223	181	0	0	0	.44	---	.05
9	314	332	281	0	0	0	.90	---	.12
10	299	348	281	.01	---	0	.84	---	.10
11	264	260	185	.88	---	145	1.8	---	.20
12	248	237	159	.351	---	1610	18	---	9.7
13	118	135	43	2500	---	22000	2.9	154	1.2
14	4.0	107	1.2	404	---	1100	.69	75	.14
15	.01	5	0	14	---	2.7	.39	24	.03
16	0	0	0	.04	---	0	.32	20	.02
17	0	0	0	0	0	0	.30	18	.01
18	0	0	0	0	0	0	.30	15	.01
19	0	0	0	0	0	0	1.7	38	.16
20	0	0	0	41	---	40	6.5	52	.91
21	0	0	0	21	---	6.0	5.1	30	.41
22	0	0	0	4.7	---	.40	2.1	12	.07
23	0	0	0	.03	---	2950	8.9	29	1.7
24	0	0	0	498	---	850	158	306	297
25	0	0	0	246	---	220	263	688	825
26	0	0	0	155	---	250	60	121	27
27	0	0	0	168	---	130	492	881	2130
28	0	0	0	111	---	.70	1600	---	10600
29	0	0	0	2.2	---	.60	1540	---	10000
30	0	0	0	1.2	---	.03	1510	---	9700
31	0	0	0	---	---	---	1430	---	9000
TOTAL	5554.01	---	50201.20	4605.22	---	29305.43	7119.85	---	42588.57

DAY	JANUARY				FEBRUARY			MARCH	
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1330	---	7800						
2	1190	---	6400						
3	265	---	530						
4	51	250	31						
5	3.0	25	.28						
6	.02	---	0						
7	.25	---	.01						
8	.32	---	.01						
9	.17	---	.01						
10	.10	---	0						
11	0	0	0						
12	0	0	0						
13	0	0	0						
14	0	0	0						
15	1.1	---	.15						
16	16	---	6.0						
17	2.0	---	.20						
18	0	0	0						
19	0	0	0						
20	0	0	0						
21	0	0	0						
22	0	0	0						
23	0	0	0						
24	0	0	0						
25	0	0	0						
26	0	0	0						
27	0	0	0						
28	0	0	0						
29	0	0	0						
30	0	0	0						
31	0	0	0						
TOTAL	2858.96	---	14767.66	0	0	0	0	0	0

11078000 SANTA ANA RIVER AT SANTA ANA, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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	.06	5	0						
5	0	0	0						
6	.87	---	.05						
7	.01	---	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	.08	---	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	.51	---	0						
28	.01	---	0						
29	0	0	0						
30	0	0	0						
31	---	---	---						
TOTAL	1.54	---	.05	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	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	0					0	0	
9	0	0					0	0	
10	0	0					0	0	
11	0	0					0	0	
12	0	0					.02	---	
13	0	0					.03	---	
14	0	0					0	0	
15	0	0					0	0	
16	0	0					0	0	
17	.01	---					0	0	
18	.17	---					0	0	
19	0	0					0	0	
20	0	0					.01	---	
21	0	0					.02	---	
22	0	0					.03	---	
23	0	0					.02	---	
24	0	0					.02	---	
25	0	0					.01	---	
26	0	0					.03	---	
27	0	0					.03	---	
28	0	0					.02	---	
29	0	0					.04	---	
30	0	0					0	0	
31	0	0					---	---	
TOTAL	.18	---	0	0	0	0	.28	---	0
YEAR 20140.04			136900						

SANTA ANA RIVER BASIN

11078000 SANTA ANA RIVER AT SANTA ANA, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM
OCT 03...	1300	415	23.5	1120	1250	39	44
DEC 26...	1335	96	17.0	120	34	--	--
27...	1330	639	15.0	1480	2550	42	45
JAN 03...	1620	220	16.0	737	436	45	60

DATE	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
OCT 03...	50	60	82	94	96	98	100
DEC 26...	--	--	--	98	100	--	--
27...	50	65	81	95	99	100	--
JAN 03...	78	93	98	99	100	--	--

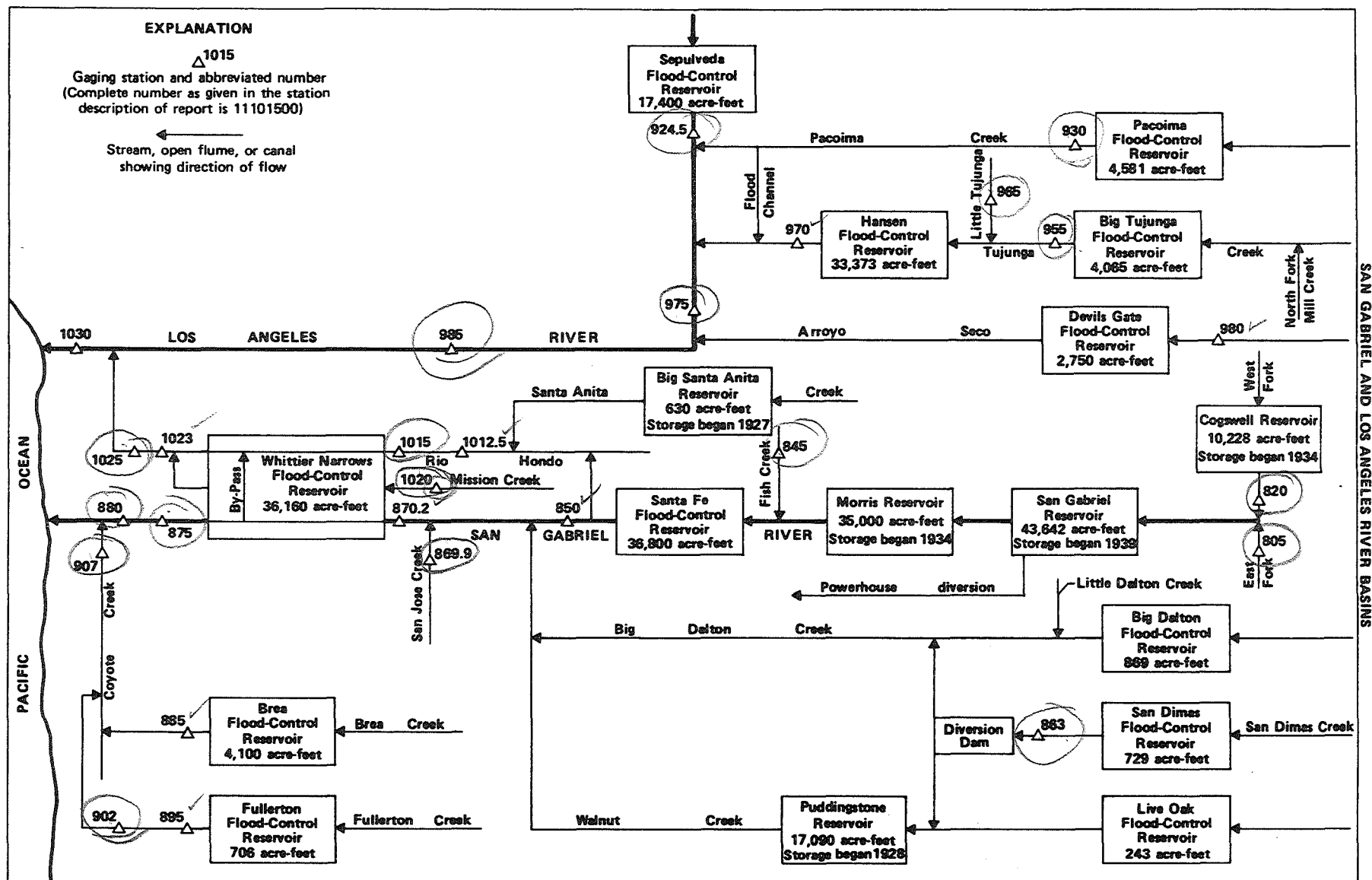


FIGURE 6. - Schematic diagram showing diversions and storage in San Gabriel and Los Angeles River basins.

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", NE1SW1 sec.6, T.1 S., R.10 W., Los Angeles County, Hydrologic Unit 18070106, on left bank at stilling basin of outlet of Santa Fe flood-control dam, 500 ft downstream from axis of dam, and 1.7 mi north of Baldwin Park.

DRAINAGE AREA.--236 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 400.00 ft National Geodetic Vertical Datum of 1929 (Levels by Corps of Engineers).

REMARKS.--Records good. Flow regulated by Cogswell and San Gabriel flood-control reservoirs, combined capacity, 53,870 acre-ft, Morris Reservoir, capacity, 35,000 acre-ft, and Santa Fe flood-control reservoir, capacity, 32,640 acre-ft. Diversions above station for irrigation, power development, and ground-water replenishment. At times water is diverted from side of stilling basin to headwaters of Rio Hondo; 16,800 acre-ft were diverted during the 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 Jan. 26, 1969, gage height, 22.20 ft; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 57.0 ft³/s Oct. 1, gage height, 10.53 ft; no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	0	0	0								
2	2.4	0	0	0								
3	0	0	.09	0								
4	0	0	0	0								
5	0	0	0	0								
6	0	0	0	0								
7	0	15	0	0								
8	0	35	0	0								
9	0	15	0	0								
10	0	0	0	0								
11	0	0	0	0								
12	.11	0	0	0								
13	0	0	0	0								
14	0	0	0	0								
15	0	0	0	0								
16	0	0	0	3.3								
17	0	0	0	3.5								
18	0	0	0	2.1								
19	0	0	0	.94								
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	5.4	0								
26	0	0	6.8	0								
27	0	0	0	0								
28	0	0	0	0								
29	0	0	0	0								
30	0	0	0	0	---							
31	0	---	0	0	---							
TOTAL	30.51	65	12.29	9.84	0	0	0	0	0	0	0	0
MEAN	.98	2.17	.40	.32	0	0	0	0	0	0	0	0
MAX	28	35	6.8	3.5	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	61	129	24	20	0	0	0	0	0	0	0	0
CAL YR 1983	TOTAL	79215.71	MEAN	217	MAX	15900	MIN	0	AC-FT	157100		
WTR YR 1984	TOTAL	117.64	MEAN	.32	MAX	35	MIN	0	AC-FT	233		

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, Hydrologic Unit 18070106, on downstream side of bridge near center on Peck Road, 0.8 mi downstream from San Jose flood channel, 1.2 mi upstream from axis of Whittier Narrows Dam, and 1.8 mi south of El Monte.

DRAINAGE AREA.--353 mi².

PERIOD OF RECORD.--October 1955 to September 1957, October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 220 ft, from topographic map.

REMARKS.--Records poor. Flow regulated by San Gabriel, Cogswell, and Santa Fe flood-control reservoirs, combined capacity, 90,670 acre-ft, several small flood-control reservoirs, combined capacity, 19,100 acre-ft, and Morris Reservoir, capacity, 35,000 acre-ft. 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 upstream from gage, at Metropolitan Water District aqueduct crossing on San Dimas Creek for ground-water replenishment. Los Angeles County Flood Control District diverted 16,800 acre-ft from San Gabriel River below Santa Fe Dam to Rio Hondo, and released 2,050 acre-ft from Puddingstone Reservoir during the current year. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records of diversion to Rio Hondo and from Puddingstone Reservoir were furnished by Los Angeles County Flood Control District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46,600 ft³/s Jan. 25, 1969, gage height, 10.90 ft; no flow for part of most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,100 ft³/s Oct. 1, gage height, 7.48 ft; minimum daily, 6.3 ft³/s Sept. 9, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3430	428	32	68	24	25	119	135	119	14	8.6	6.6
2	55	74	30	70	25	93	113	133	115	13	9.0	7.2
3	44	30	591	71	26	107	113	128	114	11	12	8.1
4	43	23	50	34	25	108	114	125	115	13	12	8.8
5	94	21	42	44	24	100	35	122	115	13	10	7.2
6	49	21	43	29	25	107	109	120	116	11	9.4	6.8
7	59	20	50	27	25	105	99	119	116	10	8.2	7.1
8	45	20	26	25	22	104	102	119	122	10	8.7	7.1
9	45	20	353	25	24	106	118	125	119	9.9	8.4	6.3
10	44	21	84	24	23	112	133	121	123	9.6	8.6	8.4
11	41	316	66	23	22	115	117	122	118	11	8.6	18
12	38	378	66	23	22	113	136	121	114	9.3	11	24
13	40	49	68	27	23	114	139	123	117	9.4	11	9.3
14	40	23	56	25	24	286	145	126	115	9.9	12	7.5
15	36	26	54	23	20	112	144	128	122	8.8	20	8.5
16	34	26	100	156	21	109	137	128	114	9.7	8.7	40
17	34	43	102	32	21	110	135	128	116	8.6	6.7	16
18	33	85	104	25	20	110	133	125	112	8.3	7.8	8.0
19	33	27	96	25	22	111	344	125	109	7.9	9.2	7.5
20	33	200	39	25	22	108	135	128	89	8.1	10	6.3
21	32	29	27	25	24	113	136	128	75	8.7	8.4	7.3
22	30	25	25	24	21	110	138	125	78	9.2	8.0	7.6
23	29	25	24	24	20	109	140	121	76	11	7.9	9.6
24	29	1710	540	25	18	111	139	114	77	7.7	7.5	9.1
25	29	367	1850	25	19	113	136	110	75	8.2	7.5	11
26	29	37	149	24	19	115	145	111	72	8.6	16	17
27	29	34	44	22	21	115	146	109	72	16	19	8.6
28	29	34	37	23	19	111	145	108	72	18	7.5	8.1
29	29	32	39	24	20	110	144	109	55	10	6.7	8.2
30	30	31	54	25	---	109	134	118	16	9.6	7.3	9.4
31	29	---	67	23	---	116	117	117	---	8.2	7.2	---
TOTAL	4594	4175	4908	1065	641	3477	4023	3771	2968	320.7	302.9	314.6
MEAN	148	139	158	34.4	22.1	112	134	122	98.9	10.3	9.77	10.5
MAX	3430	1710	1850	156	26	286	344	135	123	18	20	40
	29	20	24	22	18	25	35	108	16	7.7	6.7	6.3
AC-FT	9110	8280	9740	2110	1270	6900	7980	7480	5890	636	601	624
CAL YR 1983	TOTAL	132307.0	MEAN	362	MAX	23600	MIN	18	AC-FT	262400		
WTR YR 1984	TOTAL	30560.2	MEAN	83.5	MAX	3430	MIN	6.3	AC-FT	60620		

SAN GABRIEL RIVER BASIN

11088500 BREA CREEK BELOW BREA DAM, NEAR FULLERTON, CA

LOCATION.--Lat 33°53'16", long 117°55'32", in NE1/4 sec.28, T.3 S., R.10 W., Orange County, Hydrologic Unit 18070106, on right bank 0.2 mi downstream from Brea Dam, and 1 mi north of Fullerton.

DRAINAGE AREA.--21.6 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 196.67 ft National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Dec. 4, 1964, at datum 1.03 ft higher.

REMARKS.--Records fair. Flow regulated by Brea flood-control reservoir, capacity, 4,100 acre-ft. No diversion above station. Since August 1966 low flow mostly the result of irrigation wastewater from golf course 0.8 mi upstream. See schematic diagram of San Gabriel and Los Angeles River basins.

AVERAGE DISCHARGE.--42 years, 2.96 ft³/s, 2,150 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,190 ft³/s Jan. 31, 1979, gage height unknown, from release records of Brea Dam as furnished by Corps of Engineers; no flow for parts of some years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 334 ft³/s Oct. 1; minimum daily 0.56 ft³/s Aug. 4.

Correct
use

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	336	73	3.1	2.8	3.3	1.4	2.7	2.1	1.4	.92	.59	1.1
2	23	165	2.9	2.7	3.5	1.4	2.9	1.5	1.4	.92	.59	1.1
3	8.0	2.0	105	2.7	1.3	1.4	2.5	.89	1.1	.92	.59	1.1
4	22	2.8	55	2.9	1.3	1.4	2.1	.92	1.4	.92	.56	1.1
5	86	3.6	5.7	2.7	2.8	1.4	2.4	.79	1.4	.92	.74	1.6
6	4.0	3.6	4.3	2.7	2.0	1.3	2.0	.65	1.4	.92	.74	2.0
7	4.5	3.6	3.9	2.7	1.6	1.5	1.5	.62	2.0	.74	.74	1.7
8	3.1	3.6	3.0	2.7	2.1	1.7	1.9	.88	2.0	.74	.74	1.4
9	2.3	3.6	17	1.4	1.6	1.6	2.3	.95	.74	.74	.74	1.4
10	2.6	3.6	59	1.6	1.6	1.6	2.4	1.0	1.6	.74	.92	1.4
11	2.6	21	3.2	1.9	1.3	1.6	2.0	1.1	2.0	.74	.92	3.2
12	3.2	116	3.7	1.1	2.6	1.6	2.0	1.0	1.6	.65	.92	3.4
13	2.8	15	2.7	1.1	2.6	1.6	1.9	.78	1.2	.59	.92	2.0
14	3.4	5.4	2.9	1.1	2.3	1.9	1.8	.82	1.1	.59	.92	1.6
15	4.1	3.8	3.1	1.1	2.6	3.6	1.8	.74	1.1	.59	2.4	1.6
16	4.0	4.5	3.5	16	3.8	2.6	1.6	.82	1.1	.59	4.2	1.7
17	3.5	6.5	4.0	5.9	4.1	2.7	1.6	1.1	1.1	.59	1.4	3.9
18	2.5	20	3.4	4.1	4.1	2.7	1.6	1.3	1.2	.59	1.1	1.7
19	2.1	5.1	3.1	3.5	2.9	2.7	34	1.2	1.4	.59	1.1	1.4
20	1.9	54	3.1	3.2	2.7	2.7	4.0	1.1	1.1	.59	1.1	1.4
21	2.3	9.1	2.7	3.5	1.7	3.3	2.5	1.1	1.2	.59	1.1	1.5
22	2.3	9.1	2.9	11	1.6	3.6	2.0	.95	1.3	.59	1.1	1.4
23	2.3	6.9	3.3	12	1.8	3.2	2.0	.92	1.4	.59	1.4	1.4
24	2.0	110	32	3.9	2.0	3.5	1.4	1.3	1.1	.59	1.4	1.4
25	2.0	249	137	3.2	2.0	2.6	1.4	1.2	1.1	.59	1.4	2.2
26	2.7	29	33	5.2	2.0	2.5	1.2	1.2	1.3	.59	1.4	1.8
27	3.4	6.6	10	3.0	2.0	3.7	6.6	1.1	1.7	.59	1.4	1.3
28	4.1	6.6	5.4	4.1	1.7	3.1	1.8	1.1	1.1	.59	1.1	1.1
29	4.1	6.2	3.8	3.7	1.6	3.3	1.2	1.2	1.1	.59	1.1	1.1
30	4.1	3.6	4.1	3.1	---	3.2	.76	1.4	1.1	.59	1.1	1.1
31	3.7	---	4.0	2.9	---	3.1	---	1.4	---	.59	1.1	---
TOTAL	554.6	951.8	529.8	119.5	66.5	90.6	95.86	33.13	39.74	21.08	35.53	50.1
MEAN	17.9	31.7	17.1	3.85	2.29	2.92	3.20	1.07	1.32	.68	1.15	1.67
MAX	336	249	137	16	4.1	19	34	2.1	2.0	.92	4.2	3.9
MIN	1.9	2.0	2.7	1.1	1.3	1.3	.76	.62	.74	.59	.56	1.1
AC-FT	1100	1890	1050	237	132	180	190	66	79	42	70	99

CAL YR 1983 TOTAL 7740.61 MEAN 21.2 MAX 641 MIN .46 AC-FT 15350
WTR YR 1984 TOTAL 2588.24 MEAN 7.07 MAX 336 MIN .56 AC-FT 5130

11089500 FULLERTON CREEK BELOW FULLERTON DAM, NEAR BREA, CA

LOCATION.--Lat 33°53'45", Long 117°53'07", in NW1SW1 sec.24, T.3 S., R.10 W., Orange County, Hydrologic Unit 18070106, on left bank of outlet channel of Fullerton Dam, 1.6 mi southeast of Brea.

DRAINAGE AREA.--4.94 mi².

PERIOD OF RECORD.--October 1941 to current year.

REVISED RECORDS.--WDR CA-82-1: 1981.

GAGE.--Water-stage recorder. Altitude of gage is 250 ft, 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 higher.

REMARKS.--Records good. Flow regulated by Fullerton flood-control reservoir, capacity, 706 acre-ft. 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, 135 acre-ft/yr; 30 years (water years 1955-84), 1.13 ft³/s, 819 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 392 ft³/s Mar. 1, 1983, gage height, 8.25 ft, present datum; no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 243 ft³/s Oct. 1, gage height, 6.97 ft; minimum daily, 0.23 ft³/s Oct. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	1.2	.51	.51	.64	.65	.56	.72	.82	.50	.57	.79
2	1.4	1.3	.56	.51	.60	.71	.60	.64	.67	.53	.62	.58
3	.85	.60	19	.51	.70	.70	.72	.57	.67	.56	.49	.56
4	13	.62	6.0	.51	.67	.65	.69	.58	.73	.53	.53	.57
5	6.4	.51	.70	.51	.61	.58	.70	.51	.64	.49	.49	.59
6	1.0	.56	.67	.51	.60	.76	5.0	.48	.56	.48	.53	.57
7	1.3	.69	.58	.51	.57	.54	.60	.53	.61	.56	.64	.63
8	.57	.62	.51	.51	.60	.57	.60	.58	.56	.42	.64	.58
9	.58	.51	2.6	.51	.60	.69	.60	.53	.52	.48	.59	.50
10	.55	.62	.81	.51	.60	.93	.63	.56	.48	.48	.60	.56
11	.51	8.8	.58	.55	.60	.61	.55	.55	.53	.47	.59	2.5
12	.52	17	.64	.60	.53	.40	.60	.51	.57	.54	.49	1.0
13	.60	1.6	.51	.58	.54	.47	.60	.51	.50	.73	.49	1.3
14	.93	.77	.51	.51	.56	5.8	.60	.59	.48	.61	.51	2.2
15	1.3	.59	.51	.51	.51	.62	.57	.64	.54	.58	1.1	2.2
16	.99	.51	.51	5.9	.51	.48	.59	.57	.55	.57	.66	1.7
17	.68	1.5	.51	1.0	.44	.45	.60	.59	.50	.52	.83	1.9
18	.58	2.2	.51	.51	.51	.42	.55	.54	.47	.51	.75	1.8
19	.51	.60	.51	.51	.51	.52	15	.50	.52	.53	.53	1.8
20	.51	10	.51	.51	.52	.53	.81	.56	.52	.58	.54	2.1
21	.51	.94	.51	.59	1.6	.51	.70	.58	.49	.59	.58	2.2
22	.56	.60	.51	.60	.66	.55	.56	.67	.56	.51	.58	2.4
23	.60	.52	.51	.57	.60	.60	.59	.57	.63	.56	.58	2.3
24	.60	27	13	.51	.58	.56	.63	.61	.51	.62	.60	2.3
25	.55	44	20	.51	.65	.51	.50	.80	.66	.54	.57	2.8
26	1.7	.87	1.5	.52	.55	.66	.47	.68	.59	.56	.58	2.8
27	1.2	.73	.80	.43	.51	.55	1.2	.58	.56	.58	.57	2.1
28	.47	.69	.64	.49	.67	.49	.78	.62	.57	.60	.57	2.2
29	.25	.60	.51	.51	.60	.50	.51	.72	.50	.47	.52	2.1
30	.23	.59	.51	.59	---	.67	.57	.65	.54	.52	.57	2.1
31	1.3	---	.51	.73	---	.58	---	.84	---	.63	.75	---
TOTAL	164.75	127.34	76.24	22.33	17.84	23.26	37.68	18.58	17.05	16.85	18.66	47.73
MEAN	5.31	4.24	2.46	.72	.62	.75	1.26	.60	.57	.54	.60	1.59
MAX	124	44	20	5.9	1.6	5.8	15	.84	.82	.73	1.1	2.8
MIN	.23	.51	.51	.43	.44	.40	.47	.48	.47	.42	.49	.50
AC-FT	327	253	151	44	35	46	75	37	34	33	37	95
CAL YR 1983	TOTAL	1799.08	MEAN	4.93	MAX	221	MIN	.07	AC-FT	3570		
HTR YR 1984	TOTAL	588.31	MEAN	1.61	MAX	124	MIN	.23	AC-FT	1170		

LOS ANGELES RIVER BASIN

11097000 BIG TUJUNGA CREEK BELOW HANSEN DAM, CA

LOCATION.--Lat 34°15'13", long 118°23'17", in Ex Mission San Fernando Grant, Los Angeles County, Hydrologic Unit 18070105, in city of Los Angeles, on left bank of outlet channel 0.5 mi downstream of Hansen Dam, 0.1 mi upstream from Glen Oaks Boulevard, and 3 mi southeast of San Fernando.

DRAINAGE AREA.--153 mi².

PERIOD OF RECORD.--May 1932 to February 1938, August 1940 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WDR CA-83-1: 1978 (M).

GAGE.--Water-stage recorder. Datum of gage is 943.32 ft Corps of Engineers datum. See WSP 1735 for history of changes prior to Oct. 1, 1953.

REMARKS.--Records good. Flow regulated since July 1931 by Big Tujunga flood-control reservoir, capacity, 5,720 acre-ft in 1979 and since September 1940 by Hansen flood-control reservoir, capacity, 29,700 acre-ft. Several small diversions for domestic use and irrigation. Water reported herein is that which passed Hansen Dam. Los Angeles County Flood Control District diverts water 0.3 mi upstream from gage to spreading grounds, as shown in combined table below. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records of diversion were provided by Los Angeles County Flood Control District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,200 ft³/s Feb. 10, 1978, Mar. 2, 1983, maximum gage height, 7.64 ft Mar. 2, 1983; no flow many days in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 54,000 ft³/s, estimated, Mar. 2, 1938.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 761 ft³/s Dec. 29, gage height, 2.10 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	57	178	.07	0	19	1.1	1.1	1.7	1.2	.06	0
2	204	89	147	0	0	14	1.1	1.1	1.4	1.0	.01	0
3	43	144	95	0	0	19	1.1	1.1	2.3	.77	.01	0
4	.66	200	53	0	0	17	1.1	1.1	4.2	.72	0	0
5	188	220	217	0	0	11	1.1	1.1	1.6	.71	0	0
6	55	220	384	0	0	6.7	1.1	1.1	.81	.70	0	0
7	29	238	195	0	0	4.1	1.1	1.1	1.8	.70	0	0
8	0	258	46	0	0	2.7	1.1	1.1	20	.66	0	0
9	0	253	46	0	0	1.9	1.1	1.1	1.1	.67	0	0
10	0	113	52	0	0	1.8	1.1	1.1	1.1	.65	0	0
11	0	115	42	0	0	1.6	1.1	1.1	1.1	.64	0	0
12	0	127	29	0	0	1.4	1.1	1.1	1.1	.62	0	0
13	0	120	5.3	0	0	1.3	1.1	1.1	1.1	.61	0	2.6
14	0	112	5.3	0	0	1.1	1.1	1.1	.97	.59	0	1.9
15	0	108	5.3	.04	0	1.1	1.1	1.1	.99	.57	0	1.3
16	0	108	5.3	9.6	0	1.1	1.1	1.1	.94	.56	0	1.1
17	8.1	108	5.3	59	0	1.1	1.1	1.1	.88	.54	0	1.1
18	16	108	5.3	21	0	1.1	1.1	1.1	.86	.52	0	1.1
19	22	108	5.3	8.6	0	1.1	1.1	1.1	.89	.50	0	.83
20	22	110	5.0	6.4	0	1.1	1.1	1.1	.89	.48	0	.50
21	22	105	4.0	4.7	14	1.1	1.1	1.1	.89	.47	0	.50
22	22	126	4.0	3.4	47	1.1	1.1	1.5	.89	.44	0	.50
23	22	133	8.4	2.5	34	1.1	1.1	18	1.4	.42	0	.50
24	23	127	6.0	1.9	15	1.1	1.1	3.1	1.2	.40	0	.33
25	27	235	5.3	1.6	11	1.1	1.1	2.0	1.0	.70	0	.14
26	33	212	31	.84	9.6	1.1	1.1	2.1	.90	.38	0	.14
27	33	213	141	.04	10	1.1	1.1	2.1	.87	.32	0	.06
28	34	213	134	0	15	1.1	1.1	1.4	.84	.28	0	0
29	34	178	152	0	20	1.1	1.1	2.5	.80	.23	0	0
30	34	128	11	0	---	1.1	1.1	1.8	.79	.18	0	0
31	38	---	.27	0	---	1.1	---	2.1	---	.12	0	---
TOTAL	997.76	4586	2023.07	119.69	175.6	121.3	33.0	59.7	55.31	17.37	.08	12.60
MEAN	32.2	153	65.3	3.86	6.06	3.91	1.10	1.93	1.84	.56	.003	.42
MAX	204	258	384	59	47	19	1.1	18	20	1.2	.06	2.6
MIN	0	57	.27	0	0	1.1	1.1	1.1	.79	.12	0	0
AC-FT	1980	9100	4010	237	348	241	65	118	110	34	.2	25
CAL YR 1983	TOTAL	75288.03	MEAN	206	MAX	11400	MIN	0	AC-FT	149300		
WTR YR 1984	TOTAL	8201.48	MEAN	22.4	MAX	384	MIN	0	AC-FT	16270		

11098000 ARROYO SECO NEAR PASADENA, CA

LOCATION.--Lat 34°13'20", long 118°10'36", in NW1/4 sec.31, T.2 N., R.12 W., Los Angeles County, Hydrologic Unit 18070105, on right bank, 0.7 mi east of Angeles Crest Highway, 1.5 mi upstream from Millard Canyon, and 5.5 mi northwest of Pasadena.

DRAINAGE AREA.--16.0 mi².

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 National Geodetic Vertical Datum of 1929. 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 lower.

REMARKS.--Records fair. Minor regulation by debris dam 1.5 mi upstream. Temporary diversion above station by City of Pasadena. See schematic diagram of San Gabriel and Los Angeles River basins.

AVERAGE DISCHARGE.--70 years (water years 1914-15, 1917-84), 10.1 ft³/s, 7,330 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,620 ft³/s Mar. 2, 1938, gage height, 9.42 ft, present datum, on basis of slope-area measurement of maximum flow; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 217 ft³/s Dec. 25, gage height, 3.06 ft, no other peak above base of 200 ft³/s; minimum daily, 0.45 ft³/s Sept. 5, 6, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	7.7	7.7	13	6.0	5.3	3.8	2.2	1.5	1.1	.60	.53
2	15	8.3	7.5	11	6.2	5.4	3.7	2.2	1.5	1.0	.57	.55
3	11	6.6	17	11	6.1	5.3	3.9	2.2	1.5	1.0	.57	.51
4	9.0	5.9	14	10	5.8	5.3	3.6	2.2	1.5	1.0	.54	.47
5	17	5.9	11	9.5	5.7	5.3	3.5	2.1	1.5	1.1	.56	.45
6	11	6.0	9.8	9.2	5.7	5.3	3.6	2.1	1.6	1.0	.55	.45
7	10	6.0	9.2	8.9	5.7	5.3	3.4	2.1	1.6	1.0	.51	.48
8	9.4	5.9	8.7	8.9	5.7	5.1	3.4	2.0	1.6	1.0	.49	.45
9	8.9	5.8	11	8.5	5.6	4.5	3.3	2.0	1.6	.97	.55	.82
10	8.3	5.7	12	8.0	5.7	3.8	3.0	2.0	1.5	.92	.64	.58
11	7.6	8.8	10	7.8	5.7	3.8	3.0	1.9	1.5	.91	.58	1.0
12	6.9	16	9.5	7.7	5.7	3.8	3.0	1.9	1.5	.88	.60	.91
13	6.7	11	8.9	7.7	8.6	4.6	2.8	1.9	1.4	.84	.57	.74
14	6.6	8.7	8.5	7.7	5.7	10	2.8	1.8	1.4	.85	.58	.60
15	6.8	7.8	8.3	7.5	5.7	6.1	2.8	1.8	1.4	.75	.76	.62
16	6.8	7.3	8.0	7.6	5.5	4.9	2.7	1.8	1.3	.76	.66	.62
17	6.7	7.2	7.9	7.6	5.5	4.5	2.7	1.7	1.3	.77	.59	.64
18	6.5	7.5	7.8	7.3	5.5	4.2	3.1	1.7	1.3	.79	.67	.54
19	6.1	6.9	7.7	7.2	5.5	4.1	3.1	1.7	1.2	.72	.70	.51
20	6.0	7.3	7.5	7.2	5.5	3.8	2.8	1.6	1.2	.70	.67	.52
21	5.9	6.9	7.4	7.1	5.3	3.7	2.7	1.6	1.2	.74	.68	.62
22	5.9	6.4	7.2	6.9	5.3	3.6	2.4	1.6	1.1	.84	.63	.67
23	5.8	6.2	7.2	6.9	5.3	3.6	2.4	1.6	1.1	.81	.59	.74
24	5.7	12	8.3	6.7	5.2	3.6	2.4	1.5	1.1	.71	.56	.68
25	5.2	28	93	6.6	4.9	3.6	2.4	1.5	1.1	.58	.57	.58
26	5.3	11	49	5.8	5.0	3.8	2.4	1.5	1.0	.57	.60	.53
27	5.6	9.3	27	5.4	5.0	3.8	2.4	1.4	1.1	.59	.54	.55
28	5.7	8.6	21	5.6	5.0	3.8	2.3	1.4	1.1	.61	.49	.92
29	5.9	8.2	18	5.8	4.9	3.6	2.3	1.4	1.1	.61	.50	.48
30	6.1	7.8	16	6.0	---	3.6	2.3	1.4	1.2	.60	.48	.53
31	6.4	---	14	6.0	---	3.6	---	1.4	---	.60	.48	---
TOTAL	264.8	256.7	460.1	242.1	160.0	140.7	88.0	55.2	40.0	25.34	18.08	17.88
MEAN	8.54	8.56	14.8	7.81	5.52	4.54	2.93	1.78	1.33	.82	.58	.60
MAX	35	28	93	13	6.2	10	3.9	2.2	1.6	1.1	.76	1.0
MIN	5.2	5.7	7.2	5.4	4.9	3.6	2.3	1.4	1.0	.57	.48	.45
AC-FT	525	509	913	480	317	279	175	109	79	50	36	35
CAL YR 1983	TOTAL	14722.30	MEAN	40.3	MAX	1530	MIN	4.4	AC-FT	29200		
HTR YR 1984	TOTAL	1768.91	MEAN	4.83	MAX	93	MIN	.45	AC-FT	3510		

LOS ANGELES RIVER BASIN

11101250 RIO HONDO ABOVE WHITTIER NARROWS DAM, CA

LOCATION.--Lat 34°03'32", long 118°04'13", in Potrero Grande Grant, Los Angeles County, Hydrologic Unit 18070105, on right bank 0.3 mi downstream from Garvey Avenue, 0.4 mi downstream from Rubio Wash, 2.8 mi upstream from axis of Whittier Narrows Dam, and 2.2 mi west of El Monte.

DRAINAGE AREA.--91.2 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 217.8 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Flow regulated by Big Santa Anita, Sawpit, and Eaton flood-control reservoirs, combined capacity, 1,700 acre-ft and Sierra Madre, Las Flores, and Rubio debris basins. Many diversions above station for domestic use and irrigation. Los Angeles County Flood Control District diverted 16,800 acre-ft 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.--28 years, 43.4 ft³/s, 31,440 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,200 ft³/s Feb. 16, 1980, gage height, 7.35 ft; no flow some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,110 ft³/s Dec. 25, gage height, 4.73 ft; minimum daily, 0.59 ft³/s Apr 26, May 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	850	685	20	14	3.5	.89	1.8	1.4	1.1	2.1	3.1	1.1
2	1.6	132	14	11	1.6	1.1	2.0	1.3	1.1	2.2	3.6	.90
3	1.2	29	317	9.8	1.3	1.1	3.2	1.1	1.1	2.9	3.4	.87
4	116	121	30	8.8	1.3	3.0	9.9	1.0	1.2	1.0	1.4	3.1
5	60	190	23	6.4	1.5	.99	8.0	.81	3.0	1.4	1.0	3.2
6	1.1	192	19	4.1	1.7	.76	19	.82	3.2	3.1	1.5	3.0
7	35	197	16	3.5	1.3	3.4	1.3	.86	1.3	1.2	2.4	2.7
8	86	183	8.7	3.7	1.3	.97	1.1	2.0	.92	.86	3.5	1.4
9	81	134	292	5.7	1.6	1.5	1.9	1.9	.79	2.5	3.1	1.3
10	81	198	21	10	1.2	1.3	1.4	2.0	.76	2.9	2.5	2.9
11	81	305	17	11	.95	1.4	2.6	3.1	1.3	2.5	1.6	44
12	125	154	15	12	1.8	2.0	1.4	4.4	.84	2.8	1.1	3.2
13	164	79	11	9.6	1.8	2.4	1.5	3.9	1.3	2.9	2.1	2.1
14	198	70	9.0	7.1	1.5	145	1.4	4.0	1.5	1.8	2.2	2.6
15	226	63	7.5	7.1	1.1	2.5	1.4	4.0	1.2	1.4	325	1.0
16	243	70	6.3	147	5.1	1.1	1.5	4.3	.76	2.3	2.4	68
17	267	72	5.8	12	.84	1.1	3.1	4.2	.67	3.6	2.1	4.3
18	346	52	4.5	11	1.1	.87	2.2	4.1	.76	3.8	2.5	3.5
19	483	31	4.4	6.1	.91	1.5	31	3.7	1.3	4.0	2.1	2.1
20	497	81	4.4	5.6	.83	2.7	.98	3.5	.89	2.2	2.4	1.4
21	497	23	4.5	4.6	.77	1.6	.80	3.6	1.2	2.0	2.1	1.6
22	497	19	4.6	3.9	.91	3.0	.90	3.8	1.0	1.8	2.6	1.8
23	497	17	5.0	4.7	1.1	1.5	1.2	3.9	.78	2.3	2.8	2.1
24	424	591	600	3.2	.67	1.4	2.0	3.6	1.7	1.8	1.7	2.3
25	229	73	1500	4.4	.75	1.4	1.9	1.3	2.6	2.6	1.7	3.0
26	234	33	62	9.2	.70	3.5	.59	1.1	2.9	2.2	1.0	32
27	246	25	51	1.2	.90	1.9	6.9	.69	3.1	3.8	2.2	1.4
28	281	20	41	1.7	.78	2.7	1.8	.59	1.9	4.8	1.8	1.4
29	341	18	27	1.3	.91	1.6	.97	1.5	2.4	1.7	3.1	1.6
30	350	16	21	1.9	---	1.6	2.4	5.5	1.3	3.0	3.1	2.0
31	316	---	17	1.6	---	2.4	---	1.7	---	3.4	1.8	---
TOTAL	7854.9	3873	3178.7	343.2	39.72	198.18	116.14	79.67	43.87	76.86	392.9	201.87
MEAN	253	129	103	11.1	1.37	6.39	3.87	2.57	1.46	2.48	12.7	6.73
MAX	850	685	1500	147	5.1	145	31	5.5	3.2	4.8	325	68
MIN	1.1	16	4.4	1.2	.67	.76	.59	.59	.67	.86	1.0	.87
AC-FT	15580	7680	6300	681	79	393	230	158	87	152	779	400
CAL YR 1983	TOTAL	71875.34	MEAN	197	MAX	5960	MIN	.65	AC-FT	142600		
WTR YR 1984	TOTAL	16399.01	MEAN	44.8	MAX	1500	MIN	.59	AC-FT	32530		

11102300 RIO HONDO BELOW WHITTIER NARROWS DAM, CA

LOCATION.--Lat 34°01'00", long 118°05'15", in Pasc de Bartolo Grant, Los Angeles County, Hydrologic Unit 18Q70105, on right levee 0.2 mi upstream from Beverly Boulevard, 0.4 mi downstream from axis of Whittier Narrows Dam, and 1.0 mi northeast of Montebello.

DRAINAGE AREA.--124 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 175 ft, from topographic map.

REMARKS.--Records fair above 100 ft³/s and poor below. Flow regulated by Whittier Narrows flood-control reservoir, capacity, 36,160 acre-ft. There are several small flood-control reservoirs, combined capacities, 1,700 acre-ft 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 Jan. 25, 1969, gage height, 13.82 ft, from rating curve extended above 15,000 ft³/s on basis of gate openings at dam on gage heights 12.32 ft and 13.82 ft; no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,240 ft³/s Oct. 1, gage height, 6.94 ft; minimum daily, 2.90 ft³/s Aug. 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3330	313	44	20	27	60	100	108	110	15	4.1	26
2	531	313	38	45	27	86	100	108	110	14	3.8	27
3	161	232	232	52	27	90	100	108	110	12	3.7	30
4	74	208	259	56	27	95	108	108	110	12	3.5	37
5	134	233	231	56	27	98	35	108	110	11	3.4	35
6	27	243	63	57	27	100	95	108	111	11	3.3	22
7	61	281	89	57	27	100	100	108	111	11	3.2	12
8	97	305	180	58	27	100	107	108	112	10	3.1	10
9	92	303	260	58	27	100	112	108	113	10	3.0	11
10	94	281	100	58	27	100	112	108	114	10	2.9	13
11	97	580	29	62	9.0	100	112	109	114	9.6	2.9	44
12	135	577	50	66	6.7	100	112	109	115	9.4	6.0	7.1
13	183	196	92	66	6.1	110	112	109	116	9.2	11	5.1
14	215	182	80	62	6.0	300	112	110	117	9.0	15	4.7
15	234	145	60	62	6.0	130	112	110	117	8.8	21	5.1
16	244	125	130	213	10	100	111	111	116	8.7	4.5	52
17	245	162	100	82	6.0	100	111	112	115	8.6	3.2	20
18	256	274	85	66	6.0	100	110	112	113	8.6	3.6	13
19	286	49	70	59	6.0	100	320	111	106	8.6	3.2	9.0
20	254	266	30	59	6.2	100	160	110	92	8.6	4.3	7.0
21	257	43	25	61	6.6	100	115	110	76	8.6	4.3	7.6
22	239	23	24	59	7.0	100	114	111	76	8.7	4.4	8.5
23	236	32	25	58	32	100	112	112	75	10	7.4	9.8
24	226	688	150	47	34	100	110	113	75	9.4	9.5	13
25	158	1750	800	21	38	100	110	104	74	8.0	6.5	12
26	177	361	250	28	42	100	109	104	72	8.7	4.7	31
27	215	184	130	23	46	100	109	105	71	17	5.0	10
28	263	108	80	28	48	100	109	106	70	9.0	6.7	8.0
29	286	48	60	28	50	100	108	106	70	5.0	18	8.0
30	283	48	40	28	---	100	108	108	47	4.6	21	10
31	272	---	9.0	27	---	100	---	110	---	4.2	29	---
TOTAL	9362	8553	3815.0	1722	641.6	3269	3433	3372	2938	298.3	225.2	507.9
MEAN	302	285	123	55.5	22.1	105	114	109	97.9	9.62	7.26	16.9
MAX	3330	1750	800	213	50	300	320	113	117	17	29	52
MIN	27	23	9.0	20	6.0	60	35	104	47	4.2	2.9	4.7
AC-FT	18570	16960	7570	3420	1270	6480	6810	6690	5830	592	447	1010
CAL YR 1983 TOTAL	143129.00			MEAN 392	MAX 21200	MIN .80	AC-FT 283900					
WTR YR 1984 TOTAL	38137.00			MEAN 104	MAX 3330	MIN 2.9	AC-FT 75640					

LOS ANGELES RIVER BASIN

11103000 LOS ANGELES RIVER AT LONG BEACH, CA
(National stream-quality accounting network station)

LOCATION.--Lat 33°49'02", long 118°12'20", in Los Cerritos Grant, Los Angeles County, Hydrologic Unit 18070105, on right bank 5,000 ft upstream from Willow Street, 3.4 mi north of Long Beach, and 3.7 mi upstream from mouth.

DRAINAGE AREA.--827 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 11.91 ft National Geodetic Vertical Datum of 1929 (levels by Los Angeles County Flood Control District). See WSP 1735 for history of changes prior to Jan. 19, 1956.

REMARKS.--Flow regulated since September 1940 by Hansen flood-control reservoir, since December 1941 by Sepulveda flood-control reservoir, combined capacity, 49,400 acre-ft, 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 furnished by Los Angeles County Flood Control District.

AVERAGE DISCHARGE.--54 years (water years 1930-83), 215 ft³/s, 155,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 129,000 ft³/s Feb. 16, 1980, gage height, 17.99 ft; no flow at times in 1929-30, 1934.

EXTREMES FOR CURRENT YEAR.--Records of discharge not available at time of publication.

11103000 LOS ANGELES RIVER AT LONG BEACH, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to current year.
 CHEMICAL ANALYSES: Water years 1973 to current year.
 BIOLOGICAL DATA: Water years 1973 to September 1981.
 SPECIFIC CONDUCTANCE: Water years 1974 to current year.
 WATER TEMPERATURES: Water years 1974 to current year.
 SEDIMENT RECORDS: Water years 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1973 to September 1975, July 1980 to September 1983.
 WATER TEMPERATURES: October 1973 to September 1975, January 1980 to September 1983.

INSTRUMENTATION.--Water-quality monitor from October 1973 to September 1975, January 1980 to September 1983.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 2,010 micromhos, June 30, 1975; minimum, 40 micromhos, Nov. 30, 1982.
 WATER TEMPERATURES: Maximum, 38.0°C, June 24, 1981; minimum, 2.0°C, Jan. 31, 1975.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCOI FECAL, KF AGAR (COLS. PER 100 ML)
DEC , 1983											
14...	1400	81	1180	9.1	19.0	760	1.5	18.3	198	240	300
MAR , 1984											
29...	1230	63	1120	10.0	27.0	755	5.3	>20.0	--	K20	K48
JUN											
20...	1300	59	1130	9.5	31.0	760	4.3	>20.0	--	K30	K130
SEP											
13...	0800	68	1110	8.3	23.0	760	3.0	8.9	104	--	1300

DATE	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
DEC , 1983											
14...	420	230	110	36	100	34	2	6.5	198	280	95
MAR , 1984											
29...	380	200	94	36	110	38	3	6.8	188	270	120
JUN											
20...	360	160	87	35	110	39	3	7.4	205	250	110
SEP											
13...	350	130	89	31	91	35	2	10	218	210	92

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
DEC , 1983											
14...	.5	22	810	770	1.1	3.5	.08	1.4	.74	.64	.57
MAR , 1984											
29...	.5	--	722	750	.98	.51	<.01	1.8	.53	.15	.10
JUN											
20...	.6	20	771	750	1.0	<.10	.07	1.8	.53	.37	.95
SEP											
13...	.6	26	758	680	1.0	1.4	.08	2.3	1.00	.84	.86

See footnotes at end of table.

LOS ANGELES RIVER BASIN

11103000 LOS ANGELES RIVER AT LONG BEACH, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
DEC , 1983										
14...	1400	20	3	81	.7	3	20	<3	8	16
MAR , 1984										
29...	1230	10	2	58	<.5	<1	6	<3	4	18
JUN										
20...	1300	<10	2	67	1	<1	5	<3	5	15
SEP										
13...	0800	10	4	71	<1	<1	6	<3	6	33

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
DEC , 1983											
14...	<1	54	22	<.1	20	11	3	<1	820	<6	21
MAR , 1984											
29...	<1	53	3	<.1	20	5	4	<1	730	<6	18
JUN											
20...	<1	58	5	<.1	20	4	2	<1	750	<6	54
SEP											
13...	4	44	10	<.1	20	14	3	<1	700	<6	31

K Results based on colony count outside the acceptable range (non-ideal colony count).
 < Actual value is known to be less than the value shown.

11108500 SANTA CLARA RIVER AT LOS ANGELES-VENTURA COUNTY LINE, CA
(National stream-quality accounting network station)

LOCATION.--Lat 34°23'59", long 118°42'14", in San Francisco Grant, Ventura County, Hydrologic Unit 18070102, on downstream end of old diversion weir on right bank, on private road 0.2 mi south of Highway 126, 0.8 mi west of Los Angeles-Ventura County line, and 6.4 mi west of intersection of Highway 126 and Interstate 5.

DRAINAGE AREA.--625 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 794.93 ft National Geodetic Vertical Datum of 1929.

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. Imported water from California Water Project stored and released at Castaic Dam.

AVERAGE DISCHARGE.--32 years, 49.1 ft³/s, 35,570 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,800 ft³/s Jan. 25, 1969, gage height, 19.01 ft, from rating curve extended above 9,200 ft³/s on basis of field estimate of maximum flow; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 308 ft³/s Dec. 25, gage height, 5.26 ft, no peak above base of 750 ft³/s; minimum daily, 18 ft³/s several days during July.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	149	71	71	148	74	59	75	68	31	20	23	24
2	119	89	62	132	81	58	72	59	31	20	23	24
3	90	98	78	115	82	57	74	57	30	20	23	24
4	44	97	102	100	77	56	78	52	32	20	24	24
5	56	97	104	93	71	58	84	50	32	19	24	23
6	50	97	86	92	77	53	90	46	32	19	25	22
7	51	97	70	82	69	51	80	43	31	19	25	22
8	42	94	64	78	68	52	71	40	30	18	24	23
9	36	101	78	82	68	56	80	39	28	18	24	23
10	34	97	72	83	74	61	71	37	28	18	24	23
11	37	116	85	85	71	65	78	35	28	18	24	23
12	36	117	91	90	68	67	71	34	29	18	23	24
13	38	98	86	91	68	70	70	31	28	18	23	24
14	39	78	88	85	78	85	68	31	28	18	24	24
15	42	71	81	85	62	74	73	33	28	18	25	25
16	44	70	77	82	62	73	78	31	27	19	25	26
17	48	74	81	88	70	81	76	32	27	19	24	25
18	50	76	79	86	62	83	75	32	26	20	25	25
19	52	76	76	94	60	75	80	31	26	20	25	25
20	52	76	78	90	64	71	85	31	26	20	25	25
21	55	75	70	96	62	75	70	32	26	20	26	25
22	57	78	70	97	69	69	66	33	25	21	25	24
23	57	80	65	98	63	59	77	32	24	22	26	24
24	58	94	71	95	63	67	85	32	23	22	26	24
25	55	89	161	95	75	71	94	33	23	21	26	24
26	55	62	158	97	66	79	81	33	23	22	26	26
27	53	66	150	93	62	76	72	33	23	22	26	27
28	57	68	161	79	59	65	72	31	22	22	25	28
29	60	68	164	81	57	67	68	31	22	21	25	28
30	62	71	144	85	---	62	70	31	21	22	25	30
31	58	---	157	72	---	64	---	31	---	23	24	---
TOTAL	1736	2541	2980	2869	1982	2059	2284	1164	810	617	762	738
MEAN	56.0	84.7	96.1	92.5	68.3	66.4	76.1	37.5	27.0	19.9	24.6	24.6
MAX	149	117	164	148	82	85	94	68	32	23	26	30
MIN	34	62	62	72	57	51	66	31	21	18	23	22
AC-FT	3440	5040	5910	5690	3930	4080	4530	2310	1610	1220	1510	1460
CAL YR 1983	TOTAL	66165	MEAN	181	MAX	7900	MIN	28	AC-FT	131200		
WTR YR 1984	TOTAL	20542	MEAN	56.1	MAX	164	MIN	18	AC-FT	40750		

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 ANALYSES: Water years 1969, 1972 to current year.

BIOLOGICAL DATA: Water years 1979-80.

WATER TEMPERATURES: Water years 1969-78 (observed), February to September 1980.

SEDIMENT RECORDS: Water years 1969-78, October 1978 to current year (periodic record only).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1969 to September 1981.

pH: June to September 1969.

CHLORIDE: June to September 1969.

WATER TEMPERATURES: February 1980 to September 1981.

SEDIMENT RECORDS: October 1968 to September 1978.

INSTRUMENTATION.--Water-quality monitor from June to September 1969. Specific conductance recorder from June 1969 to September 1981. Temperature recorder from February 1980 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 3,600 micromhos Mar. 31, 1971; minimum recorded, 160 micromhos Mar. 17, 1979.

SEDIMENT CONCENTRATION: Maximum daily mean, 48,500 mg/L Feb. 10, 1978; minimum daily mean, 4 mg/L Sept. 9, 1976.

SEDIMENT DISCHARGE: Maximum daily, 3,300,000 tons, estimated, Feb. 25, 1969; minimum daily, 0.03 tons Sept. 9, 1976.

WATER TEMPERATURES: Maximum recorded, 32.0°C Aug. 9, 1980; minimum recorded, 6.0°C Feb. 10, 1980.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
DEC , 1983											
21...	1130	75	1320	8.3	13.0	740	35	9.6	94	50	97
MAR , 1984											
13...	1100	65	1190	8.3	17.5	740	10	8.9	96	K100	74
JUN											
21...	1130	25	1430	8.3	25.0	740	5.9	8.0	100	700	120
SEP											
25...	1130	25	1230	8.3	22.0	740	11	9.1	108	320	340

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
DEC , 1983											
21...	440	180	110	39	110	35	2	4.7	263	290	77
MAR , 1984											
13...	400	150	100	36	100	35	2	4.7	246	280	69
JUN											
21...	480	200	120	43	120	35	2	5.4	275	350	77
SEP											
25...	500	230	130	42	120	34	2	5.5	266	360	83

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + DIS- ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
DEC , 1983											
21...	.6	21	875	810	1.2	4.2	.32	1.1	1.0	.68	.71
MAR , 1984											
13...	.6	19	817	760	1.1	4.2	.07	.70	.74	.65	--
JUN											
21...	.6	23	844	910	1.1	4.7	.09	.60	.93	.92	.95
SEP											
25...	.6	23	78	930	1.3	4.6	.06	1.4	.72	.64	.60

See footnotes at end of table.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

		ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)		
DATE	TIME											
DEC , 1983												
21...	1130	10	2	68	1	<1	<1	<3	<1	11		
MAR , 1984												
13...	1100	20	3	68	<.5	<1	1	<3	1	6		
JUN												
21...	1130	20	<1	57	<1	<1	2	<3	2	5		
SEP												
25...	1130	20	1	60	<1	<1	<1	<3	2	3		
		LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	HOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
DEC , 1983												
21...	<1	33	11	.1	<10	<1	2	<1	940	<6	13	
MAR , 1984												
13...	<1	25	6	<.1	<10	1	3	<1	840	<6	14	
JUN												
21...	<1	34	2	<.1	<10	<1	3	<1	1000	<6	13	
SEP												
25...	2	33	21	<.1	<10	2	4	<1	980	<6	5	

K Results Based on colony count outside the acceptable range (non-ideal colony count).
 < Actual value is known to be less than the value shown.

SANTA CLARA RIVER BASIN

11109600 PIRU CREEK ABOVE LAKE PIRU, CA

LOCATION (REVISED).--Lat 34°31'27", long 118°45'22", in NE 1/4 NW 1/4 sec.15, T.5 N., R.18 W., Ventura County, Hydrologic Unit 18070102, on left bank near Blue Point, 1.2 mi downstream from Agua Blanca Creek, 4.5 mi upstream from Santa Felicia Dam, 8.0 mi northeast of Piru, and 17.9 mi downstream from Pyramid Dam.

DRAINAGE AREA.--372 mi².

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,058.55 ft National Geodetic Vertical Datum of 1929 (levels by U.S. Forest Service). Prior to Dec. 15, 1972, at site 0.3 mi upstream at different datum.

REMARKS.--Records good. Flow regulated beginning December 1971 by Pyramid Dam, capacity, 173,500 acre-ft. Imported water from the California Water Project stored and released at Pyramid Dam.

AVERAGE DISCHARGE.--16 years (water years 1956-71), 55.1 ft³/s, 39,920 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,200 ft³/s Feb. 25, 1969, gage height, 18.6 ft, site and datum then in use, from floodmark, from rating curve extended above 4,000 ft³/s on basis of slope-area measurement at gage height 12.2 ft 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, is the greatest since that date.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,850 ft³/s Dec. 25, gage height, 5.30 ft; minimum daily, 9.8 ft³/s Sept. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166	44	29	126	38	32	61	24	16	10	13	11
2	56	45	32	112	34	32	24	22	17	11	12	12
3	34	37	45	65	34	32	19	16	17	10	14	12
4	29	36	45	60	34	32	17	13	13	11	13	12
5	28	36	41	56	34	32	17	13	14	11	13	13
6	24	36	41	56	34	30	17	12	15	11	13	13
7	23	36	40	56	34	28	18	12	14	11	13	13
8	25	28	39	54	34	29	17	12	13	11	13	14
9	24	26	43	51	34	60	17	14	13	11	13	14
10	22	26	44	51	34	60	17	17	12	12	13	14
11	21	34	41	51	34	65	18	14	12	13	13	12
12	21	43	40	54	34	65	25	12	14	13	14	12
13	21	37	39	54	34	65	27	14	13	14	13	11
14	27	32	40	51	32	72	27	16	13	14	13	13
15	30	30	39	54	32	68	26	13	13	14	13	14
16	32	30	38	52	32	66	26	12	13	14	12	14
17	32	29	38	51	32	66	25	12	17	14	12	13
18	34	27	38	51	32	65	26	13	21	14	12	14
19	40	26	38	49	32	65	27	13	20	13	13	14
20	41	26	39	49	32	65	28	15	20	11	10	14
21	40	26	38	49	32	65	28	16	16	12	11	13
22	40	26	38	49	32	65	26	13	16	11	11	13
23	39	26	38	48	32	65	25	14	19	11	13	11
24	41	42	77	45	32	65	25	13	18	9.9	13	10
25	40	83	995	47	32	65	24	13	19	11	12	9.8
26	40	38	1150	44	32	65	24	13	15	10	12	11
27	40	32	639	47	32	65	24	14	11	13	13	16
28	40	30	709	44	32	65	24	16	15	13	11	13
29	40	29	592	41	32	65	24	16	13	13	12	14
30	40	29	390	41	---	63	24	16	11	13	12	14
31	40	---	132	40	---	63	---	16	---	12	11	---
TOTAL	1170	1025	5587	1698	958	1740	727	449	453	371.9	386	383.8
MEAN	37.7	34.2	180	54.8	33.0	56.1	24.2	14.5	15.1	12.0	12.5	12.8
MAX	166	83	1150	126	38	72	61	24	21	14	14	16
MIN	21	26	29	40	32	28	17	12	11	9.9	10	9.8
AC-FT	2320	2030	11080	3370	1900	3450	1440	891	899	738	766	761
CAL YR 1983	TOTAL	71176	MEAN	195	MAX	14000	MIN	14	AC-FT	141200		
WTR YR 1984	TOTAL	14948.7	MEAN	40.8	MAX	1150	MIN	9.8	AC-FT	29650		

11109700 LAKE PIRU NEAR PIRU, CA

LOCATION.--Lat 34°27'52", long 118°44'57", in Temescal Grant, Ventura County, Hydrologic Unit 18070102, at Santa Felicia Dam on Piru Creek, on left bank 1,000 ft upstream from left end of dam, 0.5 mi downstream from Santa Felicia Canyon, 4.2 mi northeast of Piru, and 20 mi downstream from Pyramid Dam.

DRAINAGE AREA.--425 mi².

PERIOD OF RECORD.--May 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is to National Geodetic Vertical Datum of 1929 (levels by United Water Conservation District). Prior to Jan. 27, 1956, reference point at intake tower at same datum. Jan. 27, 1956, to Dec. 1, 1980, non-recording gage at same site and 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, 91,010 acre-ft. Flow regulated since December 1971 by Pyramid Dam, capacity, 173,500 acre-ft. 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 109,400 acre-ft Feb. 25, 1969, elevation, 1,061.45 ft; lake dry Oct. 25 to Nov. 20, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 90,370 acre-ft Jan. 2, elevation, 1,054.47 ft; minimum, 32,990 acre-ft Sept. 30, elevation, 996.87 ft.

MONTHEND ELEVATION NGVD AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	1,052.60	88,130	--
Oct. 31.....	1,050.65	85,830	-2,300
Nov. 30.....	1,048.35	83,140	-2,690
Dec. 31.....	1,054.33	90,200	+7,060
CAL YR 1983.....	--	--	+67,700
Jan. 31.....	1,053.73	89,480	-720
Feb. 29.....	1,049.29	84,240	-5,240
Mar. 31.....	1,045.35	79,700	-4,540
Apr. 30.....	1,043.24	77,310	-2,390
May 31.....	1,041.16	74,990	-2,320
June 30.....	1,035.80	69,160	-5,830
July 31.....	1,023.94	56,970	-12,190
Aug. 31.....	1,011.90	45,610	-11,360
Sept. 30.....	996.87	32,990	-12,620
WTR YR 1984.....	--	--	-55,140

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, Hydrologic Unit 18070102, on right bank 750 ft downstream from Santa Felicia Dam, 1 mi upstream from Lime Canyon, 4 mi northeast of Piru, and 20 mi downstream from Pyramid Dam.

DRAINAGE AREA.--425 mi².

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 National Geodetic Vertical Datum of 1929 (levels by United Water Conservation District).

REMARKS.--Records good. Since May 1955 flow regulated by Santa Felicia Dam (Lake Piru, station 11109700) and since December 1971 by Pyramid Dam, capacity, 173,500 acre-ft. Imported water from the California Water Project stored by Pyramid Dam. No diversion above station. Spill from Santa Felicia Dam bypasses gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 623 ft³/s Aug. 2, 1982, gage height, 3.82 ft; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 320 ft³/s Sept. 29; minimum daily, 29 ft³/s Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	101	51	53	90	174	96	41	93	87	32	103
2	44	64	52	53	108	174	96	41	93	87	47	102
3	59	64	51	53	108	173	96	41	93	113	165	99
4	59	63	51	54	108	173	96	41	93	142	223	99
5	67	63	51	54	108	161	96	41	92	166	223	150
6	73	63	51	54	108	146	98	41	92	175	223	191
7	71	63	51	55	108	135	100	41	92	178	223	191
8	70	112	51	55	108	118	99	41	92	178	223	191
9	71	164	51	55	108	117	60	41	92	180	205	191
10	72	145	51	56	108	117	40	41	92	182	151	191
11	72	94	51	56	108	104	41	41	91	186	96	167
12	72	74	51	56	108	99	41	41	91	191	96	157
13	72	74	51	56	107	100	41	41	91	192	104	194
14	72	74	51	57	117	100	41	41	91	193	119	197
15	72	73	52	57	127	99	41	41	91	195	174	197
16	72	73	52	57	127	99	41	41	90	197	179	198
17	73	73	52	58	127	99	41	41	90	198	179	203
18	73	73	52	58	126	99	41	41	90	197	179	204
19	73	73	52	58	127	62	41	41	90	201	177	203
20	72	73	52	58	127	96	41	41	89	204	176	201
21	72	73	52	58	126	96	41	41	89	204	206	186
22	72	73	52	58	135	96	41	41	89	204	223	129
23	72	67	52	58	145	95	41	41	89	204	223	259
24	90	59	52	58	146	95	41	41	88	204	223	256
25	100	59	52	58	145	95	41	41	88	204	223	256
26	101	59	52	58	146	95	41	41	88	204	220	263
27	101	59	53	58	145	95	41	40	87	204	220	291
28	100	59	53	58	145	95	41	40	87	204	220	315
29	100	59	53	58	163	96	41	40	87	204	220	320
30	100	55	53	58	---	95	41	67	87	204	140	316
31	109	---	53	58	---	96	---	93	---	132	103	---
TOTAL	2355	2278	1604	1751	3559	3494	1697	1346	2707	5614	5415	6020
MEAN	76.0	75.9	51.7	56.5	123	113	56.6	43.4	90.2	181	175	201
MAX	109	164	53	58	163	174	100	93	93	204	223	320
MIN	29	55	51	53	90	62	40	40	87	87	32	99
AC-FT	4670	4520	3180	3470	7060	6930	3370	2670	5370	11140	10740	11940
CAL YR 1983	TOTAL	8250.03	MEAN	22.6	MAX	263	MIN	0	AC-FT	16360		
WTR YR 1984	TOTAL	37840	MEAN	103	MAX	320	MIN	29	AC-FT	75060		

1111500 SESPE CREEK NEAR WHEELER SPRINGS, CA

LOCATION.--Lat 34°34'40", long 119°15'25", in SE 1/4 NW 1/4 SW 1/4 sec.30, T.6 N., R.22 W., Ventura County, Hydrologic Unit 18070102, on right bank at Sespe Gorge, 1.6 mi upstream from Tule Creek, and 5 mi northeast of Wheeler Springs.

DRAINAGE AREA.--49.5 mi².

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 National Geodetic Vertical Datum of 1929 (levels by Ventura County Flood Control District).

REMARKS.--Records fair.

AVERAGE DISCHARGE.--37 years, 14.1 ft³/s, 10,220 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,600 ft³/s Mar. 1, 1983, gage height, 15.02 ft, from rating curve extended above 3,000 ft³/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 100 ft³/s and maximum (*), from rating curve extended as explained above:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	Unknown	533	3.88
Dec. 25	0345	*1,010	6.05

Minimum daily discharge, 0.33 ft³/s July 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	185	12	7.3	20	7.5	5.1	4.0	2.9	1.3	.60	.38	.40
2	8.3	9.0	6.9	18	7.5	5.0	3.8	2.8	1.3	.44	.38	.41
3	7.8	6.5	12	17	7.2	5.0	3.7	2.6	1.2	.42	.38	.39
4	7.5	4.0	12	16	7.0	5.0	3.8	2.6	1.2	.41	.38	.38
5	7.2	4.0	10	15	7.0	4.9	3.9	2.5	1.4	.41	.37	.38
6	6.8	3.6	9.6	14	6.9	5.0	4.0	2.5	1.4	.40	.37	.35
7	6.4	3.2	9.2	13	6.8	5.0	3.8	2.4	1.4	.38	.37	.36
8	5.8	3.0	8.9	13	6.7	4.9	3.6	2.4	1.4	.38	.36	.36
9	5.0	2.8	11	12	6.6	4.8	3.5	2.3	1.3	.37	.36	.36
10	4.5	2.6	10	12	6.6	4.8	3.4	2.2	1.2	.36	.36	.38
11	4.3	21	9.5	12	6.6	4.8	3.4	2.1	1.3	.35	.36	.48
12	4.1	14	9.1	11	6.5	4.6	3.3	2.1	1.2	.34	.35	.44
13	3.8	8.7	8.9	11	6.4	4.7	3.2	2.1	1.3	.34	.35	.43
14	4.1	6.0	8.9	11	6.3	6.0	3.1	2.0	1.3	.34	.35	.42
15	4.7	4.8	8.6	10	6.2	4.9	3.1	2.1	1.4	.34	.39	.43
16	5.0	4.4	8.4	10	6.3	4.7	3.0	2.2	1.3	.34	.39	.56
17	4.5	4.0	8.3	10	6.4	4.5	3.0	2.1	1.1	.34	.40	.55
18	4.3	3.8	8.3	9.7	6.2	4.7	3.1	2.0	1.0	.33	.40	.54
19	4.0	3.6	8.0	9.5	6.0	4.5	3.2	1.9	1.0	.37	.42	.52
20	3.8	3.5	7.9	9.3	5.9	4.4	3.2	1.8	.97	.37	.40	.50
21	3.7	3.5	7.8	9.2	5.8	4.3	3.1	1.7	.95	.40	.42	.49
22	3.7	3.5	7.6	9.1	5.8	4.3	3.0	1.6	.95	.41	.43	.50
23	3.4	3.5	7.5	8.9	5.7	4.2	2.9	1.5	.95	.43	.42	.53
24	3.2	30	26	8.8	5.6	4.2	2.8	1.5	.90	.44	.42	.57
25	3.2	35	368	8.6	5.6	4.0	2.9	1.4	.89	.43	.43	.55
26	3.4	12	78	8.4	5.7	3.9	3.1	1.4	.88	.42	.45	.55
27	3.1	10	60	8.1	5.6	3.9	3.2	1.3	.84	.41	.46	.55
28	2.8	8.2	45	8.2	5.6	3.9	3.2	1.3	.78	.41	.46	.53
29	2.7	7.8	35	7.9	5.5	3.9	3.1	1.4	.75	.41	.45	.53
30	2.5	7.4	26	7.8	---	3.9	3.0	1.4	.72	.39	.44	.53
31	2.2	---	22	7.6	---	3.8	---	1.4	---	.38	.44	---
TOTAL	320.8	245.4	865.7	346.1	183.5	141.6	99.4	61.5	33.58	12.16	12.34	13.97
MEAN	10.3	8.18	27.9	11.2	6.33	4.57	3.31	1.98	1.12	.39	.40	.47
MAX	185	35	368	20	7.5	6.0	4.0	2.9	1.4	.60	.46	.57
MIN	2.2	2.6	6.9	7.6	5.5	3.8	2.8	1.3	.72	.33	.35	.35
AC-FT	636	487	1720	686	364	281	197	122	67	24	24	28
CAL YR 1983	TOTAL	29697.4	MEAN	81.4	MAX	6430	MIN	2.2	AC-FT	58900		
WTR YR 1984	TOTAL	2336.05	MEAN	6.38	MAX	368	MIN	.33	AC-FT	4630		

SANTA CLARA RIVER BASIN

11113000 SESPE CREEK NEAR FILLMORE, CA

LOCATION.--Lat 34°27'03", long 118°55'30", in NE 1/4 NW 1/4 NE 1/4 sec.12, T.4 N., R.20 W., Ventura County, Hydrologic Unit 18070102, on right bank 0.1 mi downstream from Little Sespe Creek, and 3.5 mi north of Fillmore.

DRAINAGE AREA.--251 mi².

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, from topographic map. Canal gage is at different datum. See WSP 1315-B for history of changes prior to Jan. 17, 1946.

REMARKS.--Records good. No regulation above station. Fillmore Irrigation Co. has diverted water 1 mi upstream since September 1911. For records of combined discharge of Sespe Creek and Fillmore Irrigation Company's canal, see following page.

AVERAGE DISCHARGE.--Creek only: 59 years, 115 ft³/s, 83,320 acre-ft/yr.
Combined creek and canal: 57 years, 121 ft³/s, 87,660 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Creek only: Maximum discharge, 73,000 ft³/s Feb. 10, 1978, gage height, 22.40 ft, from rating curve extended above 17,000 ft³/s on basis of slope-area measurement at gage height 22.40 ft; maximum gage height, 24.95 ft Feb. 25, 1969, from debris wave; no flow at times in some years.
Combined creek and canal: Maximum discharge, 73,000 ft³/s Feb. 10, 1978; minimum daily, 1.1 ft³/s July 31, Aug. 2, 1951.

EXTREMES FOR CURRENT YEAR.--Creek only: Peak discharges above base of 1,300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	0415	1,410	11.15
Dec. 25	0745	*6,330	13.83

Minimum daily discharge, 0.60 ft³/s Sept. 7.

Combined creek and canal: Maximum discharge, 6,330 ft³/s Dec. 25; minimum daily, 4.3 ft³/s Sept. 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	861	54	69	143	56	35	27	13	1.4	1.3	1.0	.69
2	222	71	65	128	55	34	27	14	1.3	1.3	1.0	.62
3	93	60	111	116	54	34	27	13	1.4	1.4	.98	.64
4	78	47	103	109	53	34	27	12	1.5	1.3	.97	.73
5	72	41	88	101	53	33	27	12	1.5	1.3	.97	.67
6	66	38	78	95	52	34	27	12	1.7	1.3	.95	.64
7	64	37	74	90	51	32	26	10	1.8	1.2	.94	.60
8	62	35	70	88	49	32	26	9.2	2.0	1.2	.94	.63
9	59	33	85	84	46	32	27	8.2	1.5	1.1	.94	.68
10	56	33	88	80	44	31	26	6.0	1.6	1.1	.92	.74
11	53	118	80	77	42	31	26	6.2	1.7	1.0	.91	.83
12	51	121	75	74	42	31	25	6.4	1.6	1.0	.90	.85
13	49	88	72	73	41	31	22	6.4	1.8	1.0	.90	.81
14	48	71	69	72	41	33	20	6.7	2.0	1.0	.90	.79
15	48	62	65	72	40	35	18	4.9	2.0	1.1	.93	.75
16	50	58	66	70	39	35	17	4.5	1.6	1.1	.91	2.9
17	50	56	64	70	39	35	16	3.9	1.9	1.3	.91	7.9
18	50	54	63	68	39	34	15	4.2	2.6	1.3	.91	1.0
19	49	52	63	67	38	33	15	4.5	2.3	1.1	.91	.82
20	48	51	62	65	38	32	15	4.7	1.5	1.1	.91	.75
21	47	50	61	64	37	31	15	5.3	1.7	1.1	.91	.75
22	47	51	60	64	38	29	15	5.7	1.8	1.2	.91	.71
23	46	51	59	63	37	28	14	3.5	1.4	1.2	.91	.70
24	46	187	191	62	37	28	14	3.4	1.5	1.2	.88	.77
25	43	279	4070	61	35	28	13	3.5	1.8	1.2	.85	.75
26	41	133	1160	59	36	28	13	3.7	2.4	1.1	.87	.82
27	39	95	478	57	35	29	12	3.2	2.7	1.1	.86	.83
28	35	83	311	55	35	29	12	2.9	2.2	1.1	.84	.84
29	34	77	237	55	35	28	12	2.5	1.5	1.0	.81	.83
30	34	73	194	56	---	28	13	1.5	1.6	1.0	.76	.85
31	35	---	165	56	---	28	---	1.4	---	1.0	.74	---
TOTAL	2576	2259	8496	2394	1237	975	589	198.4	53.3	35.7	28.04	31.89
MEAN	83.1	75.3	274	77.2	42.7	31.5	19.6	6.40	1.78	1.15	.90	1.06
MAX	861	279	4070	143	56	35	27	14	2.7	1.4	1.0	7.9
MIN	34	33	59	55	35	28	12	1.4	1.3	1.0	.74	.60
AC-FT	5110	4480	16850	4750	2450	1930	1170	394	106	71	56	63
CAL YR 1983	TOTAL	160566	MEAN	440	MAX	25500	MIN	16	AC-FT	318500		
WTR YR 1984	TOTAL	18873.33	MEAN	51.6	MAX	4070	MIN	.60	AC-FT	37440		

11113001 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 1983 TO SEPTEMBER 1984

MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	861	59	70	143	56	43	35	25	9.9	7.0	5.7	4.6
2	222	74	66	128	55	42	34	25	9.5	6.8	5.7	4.6
3	93	66	112	116	54	41	35	24	9.3	6.8	5.7	4.6
4	78	52	104	109	53	40	35	22	9.5	6.6	5.6	4.7
5	72	49	89	101	53	39	35	20	9.9	6.5	5.5	4.6
6	66	47	79	95	52	41	35	19	10	6.6	5.5	4.5
7	64	46	75	90	52	40	33	18	10	6.4	5.3	4.3
8	62	44	71	88	54	40	33	17	10	6.3	5.3	4.3
9	59	42	86	84	55	41	34	17	9.9	6.0	5.3	4.4
10	56	42	89	80	53	39	33	16	9.5	5.9	5.3	4.7
11	53	123	81	77	51	38	33	16	9.7	5.7	5.3	5.3
12	51	123	76	74	52	37	34	16	9.7	5.6	5.3	5.9
13	49	90	73	73	51	38	33	15	9.7	5.6	5.3	5.8
14	48	73	70	72	50	42	31	16	9.5	5.5	5.3	5.4
15	48	63	66	72	49	45	30	14	9.9	5.6	5.5	5.2
16	50	59	67	70	47	44	28	14	9.9	5.7	6.1	8.2
17	50	57	65	70	47	43	27	14	10	5.8	6.0	16
18	50	55	64	68	48	41	26	14	10	6.0	5.8	7.0
19	49	53	64	67	47	40	27	14	9.9	5.8	5.6	5.8
20	48	52	63	65	46	39	25	13	9.3	6.1	5.6	5.4
21	47	51	62	64	44	39	27	13	8.9	6.0	5.6	5.3
22	47	52	61	64	46	37	27	14	9.0	6.2	5.6	5.3
23	46	52	60	63	45	36	26	13	8.4	6.4	5.4	5.3
24	46	188	192	62	45	36	26	12	8.0	6.4	5.3	5.7
25	43	280	4070	61	43	36	24	12	7.6	6.2	5.2	5.5
26	41	134	1160	59	44	36	23	11	7.6	5.7	5.3	5.3
27	43	96	478	57	43	36	23	11	7.4	5.6	5.4	5.1
28	42	84	311	55	42	35	24	10	7.6	5.5	5.1	5.1
29	43	78	237	55	43	34	24	10	7.2	5.5	5.1	4.9
30	43	74	194	56	---	34	25	9.9	7.3	5.6	5.1	4.9
31	44	---	165	56	---	35	---	9.8	---	5.7	4.8	---
TOTAL	2614	2358	8520	2394	1420	1207	885	474.7	274.1	187.1	168.6	167.7
MEAN	84.3	78.6	275	77.2	49.0	38.9	29.5	15.3	9.14	6.04	5.44	5.59
MAX	861	280	4070	143	56	45	35	25	10	7.0	6.1	16
MIN	41	42	60	55	42	34	23	9.8	7.2	5.5	4.8	4.3
AC-FT	5180	4680	16900	4750	2820	2390	1760	942	544	371	334	333
CAL YR 1983	TOTAL	161639	MEAN	443	MAX	25500	MIN	22	AC-FT	320600		
WTR YR 1984	TOTAL	20670.2	MEAN	56.5	MAX	4070	MIN	4.3	AC-FT	41000		

11113500 SANTA PAULA CREEK NEAR SANTA PAULA, CA

LOCATION.--Lat 34°24'48", long 119°04'53", in NE 1/4 NW 1/4 SE 1/4 sec.21, T.4 N., R.21 W., Ex Mission San Buenaventura Grant, Ventura County, Hydrologic Unit 18070102, on right bank 1.3 mi downstream from Sisar Creek, and 4.8 mi north of Santa Paula.

DRAINAGE AREA.--38.4 mi².

PERIOD OF RECORD.--October 1927 to current year. March 1912 to September 1913, at site 1.2 mi upstream; records not equivalent.

GAGE.--Water-stage recorder. Elevation of gage is 790 ft, from topographic map. Prior to Oct. 22, 1980, at various sites and datums 1.3 mi downstream. See U.S. Geological Survey Water-Data Report CA-79-1 for history of changes prior to Oct. 22, 1980.

REMARKS.--Records poor. Natural flow affected by pumping and return flow from irrigated areas.

AVERAGE DISCHARGE.--57 years, 24.0 ft³/s, 17,390 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,000 ft³/s Feb. 25, 1969, gage height, 18.18 ft, from floodmark, site and datum then in use, from rating curve extended above 2,300 ft³/s on basis of critical-depth measurement at gage height 15.2 ft; no flow at times in 1949, 1951-52, 1965.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	Unknown	Unknown	Unknown
Dec. 25	1330	*1,230	4.88

Minimum daily discharge, 0.91 ft³/s June 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	22	18	32	14	8.7	6.8	6.0	2.2	1.6	3.6	1.2
2	45	19	17	31	14	8.5	6.8	5.7	2.1	1.4	4.2	1.2
3	23	17	27	28	14	8.4	6.8	4.4	2.1	1.1	4.2	1.2
4	17	16	24	26	14	8.4	6.6	4.0	2.1	1.4	4.2	1.2
5	16	16	21	25	14	8.4	6.6	3.7	3.4	1.8	4.8	2.8
6	16	15	20	24	13	8.4	6.4	3.5	3.9	2.1	4.3	2.7
7	16	15	19	23	13	8.2	6.2	3.3	3.6	2.9	3.5	2.1
8	15	15	18	22	13	8.2	6.2	3.2	2.7	3.1	2.8	2.0
9	15	14	21	21	12	8.2	6.0	3.1	2.5	2.8	2.2	1.9
10	15	14	21	20	12	8.0	6.0	3.0	2.4	2.1	2.2	1.9
11	15	22	20	19	12	8.0	5.8	2.9	2.6	2.0	2.1	4.0
12	15	23	19	18	11	8.0	5.4	2.9	2.7	1.8	2.1	4.5
13	15	21	19	18	11	7.8	5.1	2.9	2.4	2.0	2.1	4.0
14	15	19	18	17	10	13	4.7	2.8	2.0	2.1	2.0	3.8
15	14	18	17	17	10	11	5.0	2.7	1.9	2.2	2.0	2.9
16	14	17	17	17	10	10	5.5	2.7	2.1	2.4	2.8	2.2
17	14	17	17	16	10	9.4	5.9	2.7	2.2	1.7	2.4	1.8
18	14	17	17	16	10	8.0	6.7	2.7	2.4	2.1	2.2	1.4
19	14	17	17	15	9.8	7.8	7.8	2.6	2.4	2.7	2.1	1.3
20	14	17	16	15	9.7	7.6	7.4	2.5	1.9	3.4	2.0	1.3
21	14	16	16	15	9.5	7.4	8.4	2.5	1.9	3.8	2.0	2.9
22	13	16	16	15	9.4	7.4	8.0	2.5	1.5	4.6	2.0	2.8
23	13	16	15	15	9.2	7.2	5.4	2.4	1.8	5.1	2.0	3.5
24	13	29	20	14	9.1	7.2	4.9	2.4	1.7	4.8	1.9	3.5
25	13	39	396	13	9.0	7.2	4.4	2.4	1.5	4.4	2.5	3.1
26	13	25	130	13	8.9	7.2	4.2	2.3	.91	3.8	3.0	2.8
27	13	22	72	15	8.8	7.2	3.7	2.3	1.1	3.3	2.2	2.7
28	13	20	55	16	8.8	7.2	3.5	2.3	1.3	3.0	1.7	2.2
29	12	19	47	16	8.8	7.0	3.7	2.3	1.2	3.4	1.2	2.2
30	12	18	40	15	---	7.0	5.4	2.2	1.2	3.2	1.2	2.0
31	12	---	36	15	---	7.0	---	2.2	---	3.4	1.2	---
TOTAL	583	571	1226	582	318.0	248.4	175.3	93.1	63.71	85.5	78.7	73.1
MEAN	18.8	19.0	39.5	18.8	11.0	8.01	5.84	3.00	2.12	2.76	2.54	2.44
MAX	120	39	396	32	14	11	8.4	6.0	3.9	5.1	4.8	4.5
MIN	12	14	15	13	8.8	7.0	3.5	2.2	.91	1.1	1.2	1.2
AC-FT	1160	1130	2430	1150	631	493	348	185	126	170	156	145
CAL YR 1983	TOTAL	35806	MEAN	98.1	MAX	2870	MIN	10	AC-FT	71020		
WTR YR 1984	TOTAL	4102.41	MEAN	11.2	MAX	396	MIN	.91	AC-FT	8140		

11113900 SATICOY DIVERSION NEAR SATICOY, CA

LOCATION.--Lat 34°17'35", long 119°06'00", in Santa Paula Y Saticoy Grant, Ventura County, Hydrologic Unit 18070102, on diversion works at Santa Clara River, 1.9 mi east of Saticoy.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1969 to current year. Daily discharges for October 1981 to September 1982, published in WDR CA-83-1. October 1928 to April 1969 in files of United Water Conservation District.

GAGE.--Water-stage recorder. Altitude of gage is 160 ft, 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. 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 437 ft³/s Dec. 10, 1978; no flow at times in most years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	99	139	0	179	237	159	69	91	132	108	103
2	0	69	138	15	187	245	160	72	96	124	68	90
3	64	204	69	35	166	234	150	73	107	113	60	95
4	175	198	44	58	173	234	139	66	106	140	146	91
5	0	177	155	115	173	207	144	66	98	149	186	80
6	98	173	132	98	161	201	155	73	103	152	191	133
7	154	165	131	98	157	203	164	69	107	163	192	158
8	154	160	131	96	174	193	174	57	107	168	186	160
9	150	195	83	93	174	160	168	50	110	171	186	171
10	154	219	41	91	174	135	132	48	112	162	163	169
11	167	92	135	93	189	179	106	48	116	162	119	176
12	141	0	135	126	198	160	94	51	114	164	102	145
13	126	0	128	105	198	150	83	57	112	164	91	156
14	129	64	152	92	195	99	80	60	110	158	84	172
15	122	164	135	93	197	188	80	57	113	154	116	172
16	126	171	123	93	195	189	89	54	120	156	152	176
17	126	180	135	96	197	182	90	52	126	159	155	177
18	124	173	146	95	200	188	80	52	120	155	158	168
19	118	168	148	92	198	181	80	53	111	156	164	166
20	112	168	145	92	198	161	77	60	111	163	165	164
21	118	170	142	92	197	172	77	47	114	164	164	178
22	118	160	163	92	203	171	82	53	114	172	194	169
23	117	160	171	87	223	166	81	53	112	177	219	142
24	118	125	108	84	210	173	75	32	112	179	235	216
25	116	0	0	159	214	182	73	33	115	184	241	196
26	104	0	0	198	219	182	68	49	109	167	244	167
27	90	0	0	188	209	177	67	50	114	165	245	178
28	99	65	0	190	203	162	67	34	124	181	242	226
29	135	132	0	192	202	154	67	0	117	195	234	245
30	138	141	0	186	---	145	69	36	126	191	230	247
31	0	---	0	182	---	148	---	70	---	179	136	---
TOTAL	3393	3832	3029	3326	5563	5558	3130	1644	3347	5019	5176	4886
MEAN	109	128	97.7	107	192	179	104	53.0	112	162	167	163
MAX	175	219	171	198	223	245	174	73	126	195	245	247
MIN	0	0	0	0	157	99	67	0	91	113	60	80
AC-FT	6730	7600	6010	6600	11030	11020	6210	3260	6640	9960	10270	9690
CAL YR 1983	TOTAL	41788	MEAN	114	MAX	337	MIN	0	AC-FT	82890		
WTR YR 1984	TOTAL	47903	MEAN	131	MAX	247	MIN	0	AC-FT	95020		

SANTA CLARA RIVER BASIN

11113900 SATICOY DIVERSION NEAR SATICOY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1982 to current year.

SPECIFIC CONDUCTANCE: August 1982 to current year.

pH: April 1982 to current year.

WATER TEMPERATURES: August 1982 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August, 1982 to current year.

pH: April 1982 to current year.

WATER TEMPERATURES: August 1982 to current year.

INSTRUMENTATION: Water-quality monitor since August 1982.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,810 micromhos Nov. 3, 7, 1982; minimum recorded, 590 micromhos Nov. 30, 1982.

pH: Maximum, 8.9 units Apr. 16, 1984; minimum, 7.1 units Aug. 24, 1983.

WATER TEMPERATURES: Maximum recorded, 31.5°C Aug. 13, 16, 1983; minimum recorded, 3.5°C Dec. 5, 1983.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,740 micromhos Apr. 28; minimum recorded, 1,020 micromhos Sept. 28.

pH: Maximum, 8.9 units Apr. 16; minimum, 7.5 units Nov. 2.

WATER TEMPERATURES: Maximum recorded, 31.0°C Sept. 5; minimum recorded, 3.5°C Dec. 5.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

[illegible]

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1280	1240	1260	1160	1120	1140	1450	1410	1430	1670	1630	1660
2	1230	1190	1200	1160	1120	1140	1440	1420	1430	1730	1640	1690
3	1250	1200	1220	1170	1120	1150	1440	1410	1430	1720	1670	1700
4	1220	1170	1190	1170	1130	1150	1470	1410	1440	1720	1650	1700
5	1220	1170	1190	1160	1130	1150	1450	1420	1430	1700	1660	1680
6	1250	1200	1220	1170	1140	1160	1440	1410	1430	---	---	---
7	1260	1210	1220	1200	1160	1180	1440	1410	1430	---	---	---
8	1230	1190	1220	1240	1210	1220	1430	1410	1420	---	---	---
9	1250	1210	1230	1320	1260	1290	1440	1410	1420	---	---	---
10	1250	1220	1230	1360	1280	1340	1550	1440	1520	---	---	---
11	1260	1220	1230	1330	1260	1280	1560	1520	1540	---	---	---
12	1250	1210	1230	1360	1340	1350	1600	1540	1580	---	---	---
13	1240	1220	1230	1370	1350	1360	1620	1580	1600	---	---	---
14	1230	1210	1220	1450	1040	1310	1630	1580	1600	---	---	---
15	1210	1190	1200	1350	1330	1340	1630	1580	1600	---	---	---
16	1210	1190	1200	1360	1340	1350	1630	1570	1600	---	---	---
17	1210	1190	1200	1390	1360	1380	1630	1590	1610	---	---	---
18	1210	1180	1190	1380	1360	1370	1640	1600	1620	1680	1610	1650
19	1210	1190	1200	1440	1380	1400	1630	1590	1610	1690	1610	1650
20	1220	1190	1200	1470	1420	1440	1630	1600	1620	1680	1600	1640
21	1210	1180	1200	1430	1400	1420	1630	1580	1610	1670	1620	1650
22	1200	1180	1190	1440	1410	1430	1650	1590	1620	1680	1580	1640
23	1200	1120	1160	1450	1420	1430	1650	1590	1630	1690	1630	1660
24	1220	1150	1180	1450	1420	1430	1660	1620	1640	1690	1630	1660
25	1180	1150	1160	1420	1410	1420	1650	1550	1600	1700	1620	1660
26	1180	1150	1170	1430	1410	1420	1710	1610	1650	1690	1620	1660
27	1190	1170	1180	1440	1410	1420	1710	1650	1690	1700	1640	1670
28	1180	1150	1160	1440	1410	1420	1740	1660	1690	---	---	---
29	1200	1150	1180	1440	1410	1430	1700	1630	1670	---	---	---
30	---	---	---	1450	1420	1440	1690	1640	1660	---	---	---
31	---	---	---	1440	1410	1420	---	---	---	1660	1540	1600
MONTH	1280	1120	1200	1470	1040	1330	1740	1410	1560	---	---	---
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1550	1490	1520	1420	1340	1390	1500	1220	1380	1480	1410	1450
2	1510	1460	1480	1430	1380	1400	1510	1460	1490	1490	1450	1470
3	1490	1450	1470	1430	1390	1410	1530	1440	1500	1530	1470	1500
4	1480	1440	1460	1390	1320	1350	1360	1200	1230	1540	1480	1510
5	1480	1440	1460	1310	1220	1270	1230	1180	1210	1550	1510	1530
6	1450	1420	1440	1270	1200	1250	1220	1170	1200	1540	1360	1400
7	1450	1310	1360	1270	1220	1250	1210	1170	1190	1360	1250	1290
8	1350	1310	1330	1260	1210	1240	1210	1170	1190	1300	1250	1270
9	1370	1320	1350	1240	1160	1210	1210	1180	1200	1280	1250	1270
10	1390	1350	1370	1280	1240	1260	1240	1210	1230	1280	1260	1270
11	1410	1370	1390	1280	1230	1260	1390	1230	1330	1300	1140	1250
12	1560	1390	1470	1270	1210	1260	1430	1370	1400	1370	1270	1330
13	1490	1420	1450	1270	1230	1250	1450	1410	1430	1300	1260	1270
14	1480	1430	1460	1270	1230	1250	1440	1380	1400	1290	1260	1270
15	1480	1420	1440	1260	1240	1250	1470	1290	1340	1280	1240	1260
16	1500	1420	1460	1270	1230	1250	1300	1270	1290	1270	1240	1260
17	1510	1420	1460	1250	1230	1240	1290	1270	1280	1270	1230	1250
18	1490	1440	1460	1250	1220	1240	1290	1270	1280	1250	1220	1230
19	1490	1440	1460	1240	1210	1230	1290	1270	1280	1230	1210	1220
20	1480	1420	1450	1240	1210	1230	1290	1270	1280	1230	1200	1220
21	1470	1350	1430	1240	1210	1230	1300	1270	1290	1220	1190	1210
22	1460	1360	1430	1240	1210	1230	1270	1240	1250	1320	1180	1260
23	1470	1410	1450	1260	1230	1240	1260	1230	1250	1320	1180	1240
24	1440	1390	1420	1260	1230	1250	1270	1220	1250	1190	1160	1170
25	1440	1360	1410	1250	1200	1240	1270	1240	1260	1180	1130	1160
26	1430	1380	1410	1250	1210	1240	1270	1250	1260	1170	1110	1140
27	1430	1340	1390	1240	1200	1230	1280	1250	1270	1130	1100	1120
28	1440	1380	1400	1250	1210	1230	1290	1260	1280	1120	1020	1100
29	1430	1370	1400	1240	1210	1230	1280	1260	1270	1110	1070	1090
30	1430	1370	1400	1250	1220	1240	1340	1250	1270	1100	1060	1080
31	---	---	---	1240	1210	1230	1450	1360	1410	---	---	---
MONTH	1560	1310	1430	1430	1160	1260	1530	1170	1300	1550	1020	1270
YEAR	1740	1020	1380									

SANTA CLARA RIVER BASIN

11113900 SATICOY DIVERSION NEAR SATICOY, CA--Continued

PH (UNITS), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	8.1	8.1	8.1	---	---	---
2	---	---	---	8.0	7.5	7.8	8.1	8.1	8.1	---	---	---
3	---	---	---	8.0	7.9	8.0	8.1	7.8	8.0	---	---	---
4	---	---	---	8.1	8.0	8.0	7.8	7.7	7.7	8.2	8.1	8.2
5	---	---	---	8.1	8.0	8.0	8.0	7.7	7.8	8.2	8.1	8.2
6	---	---	---	8.1	8.0	8.0	8.1	8.0	8.1	8.2	8.1	8.2
7	8.0	8.0	8.0	8.1	8.0	8.0	8.1	8.1	8.1	8.2	8.1	8.1
8	8.0	8.0	8.0	8.1	8.0	8.1	8.1	8.1	8.1	8.2	8.1	8.1
9	8.0	8.0	8.0	8.1	8.0	8.1	8.1	7.7	8.0	8.2	8.1	8.2
10	8.0	8.0	8.0	8.1	8.0	8.0	8.1	7.7	7.8	8.2	8.1	8.2
11	8.0	8.0	8.0	---	---	---	8.1	8.1	8.1	8.2	8.1	8.2
12	8.0	8.0	8.0	---	---	---	8.1	8.1	8.1	8.2	8.1	8.2
13	8.0	8.0	8.0	---	---	---	8.1	8.1	8.1	8.2	8.1	8.1
14	8.1	8.0	8.0	---	---	---	8.1	8.1	8.1	8.2	8.1	8.1
15	8.0	8.0	8.0	---	---	---	8.2	8.1	8.1	8.2	8.1	8.1
16	8.1	8.0	8.0	---	---	---	8.1	8.1	8.1	8.2	8.1	8.1
17	8.0	8.0	8.0	---	---	---	8.1	8.1	8.1	8.2	8.1	8.1
18	8.1	8.0	8.0	8.1	8.0	8.0	8.2	8.1	8.1	8.2	8.1	8.1
19	8.1	8.0	8.0	8.1	8.0	8.1	8.1	8.1	8.1	8.2	8.1	8.1
20	8.1	8.0	8.0	8.1	8.1	8.1	8.1	8.1	8.1	8.2	8.1	8.2
21	8.1	8.0	8.0	8.1	8.1	8.1	8.2	8.1	8.1	8.2	8.1	8.1
22	8.1	8.0	8.0	8.1	8.1	8.1	8.1	8.1	8.1	8.2	8.1	8.2
23	8.1	8.0	8.1	8.1	8.1	8.1	8.1	8.0	8.1	8.2	8.1	8.2
24	8.1	8.0	8.0	---	---	---	---	---	---	8.2	8.2	8.2
25	8.1	8.0	8.1	---	---	---	---	---	---	8.2	8.2	8.2
26	8.1	8.0	8.1	---	---	---	---	---	---	8.2	8.2	8.2
27	8.1	8.0	8.1	---	---	---	---	---	---	8.2	7.6	8.1
28	8.1	7.6	7.9	---	---	---	---	---	---	8.2	8.1	8.1
29	8.1	8.0	8.0	8.1	8.1	8.1	---	---	---	8.1	8.0	8.1
30	---	---	---	8.1	8.1	8.1	---	---	---	8.1	8.0	8.1
31	---	---	---	---	---	---	---	---	---	8.2	8.0	8.1
MONTH	---	---	---	---	---	---	---	---	---	8.2	7.6	8.1

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.1	8.0	8.0	8.0	8.0	8.0	8.3	8.2	8.2	8.1	8.1	8.1
2	7.9	7.8	7.9	8.0	7.9	8.0	8.3	8.2	8.2	8.1	8.0	8.1
3	7.9	7.8	7.9	8.1	8.0	8.0	8.3	8.2	8.2	8.1	8.0	8.1
4	8.0	7.9	8.0	8.0	8.0	8.0	8.2	8.2	8.2	8.6	8.0	8.2
5	8.0	7.9	7.9	8.0	8.0	8.0	8.3	8.2	8.2	8.2	8.1	8.2
6	8.0	7.9	8.0	8.0	8.0	8.0	8.3	8.2	8.2	---	---	---
7	8.0	8.0	8.0	8.2	8.0	8.1	8.3	8.2	8.2	---	---	---
8	8.0	7.9	8.0	8.3	8.2	8.2	8.3	8.2	8.2	---	---	---
9	8.1	7.9	8.0	8.2	8.2	8.2	8.4	8.2	8.3	---	---	---
10	8.0	7.8	7.9	8.2	8.1	8.2	8.4	8.2	8.3	---	---	---
11	8.0	7.8	7.9	8.2	8.2	8.2	8.4	8.0	8.3	---	---	---
12	8.0	7.9	8.0	8.2	8.2	8.2	8.6	7.6	8.0	---	---	---
13	8.1	7.9	8.0	8.2	8.1	8.2	8.0	7.9	8.0	---	---	---
14	7.9	7.9	7.9	8.2	8.0	8.1	8.0	7.9	8.0	---	---	---
15	8.0	7.9	7.9	8.2	8.2	8.2	8.1	7.9	8.0	---	---	---
16	7.9	7.9	7.9	8.2	8.2	8.2	8.9	8.0	8.3	---	---	---
17	8.0	7.9	7.9	8.2	8.2	8.2	8.7	8.1	8.3	---	---	---
18	8.0	7.9	7.9	8.2	8.2	8.2	8.1	8.0	8.1	8.3	8.2	8.3
19	8.0	7.9	8.0	8.2	8.1	8.2	8.1	8.0	8.0	8.3	8.2	8.3
20	8.0	7.9	7.9	8.2	8.1	8.2	8.1	8.0	8.0	8.4	8.2	8.3
21	8.0	7.9	7.9	8.2	8.1	8.2	8.1	8.0	8.0	8.3	8.2	8.3
22	8.0	7.9	7.9	8.2	8.2	8.2	8.1	8.0	8.0	8.3	8.2	8.3
23	8.0	8.0	8.0	8.2	8.2	8.2	8.1	8.0	8.1	8.4	8.2	8.3
24	8.0	8.0	8.0	8.2	8.1	8.2	8.1	8.0	8.1	8.4	7.9	8.2
25	8.1	7.9	8.0	8.2	8.2	8.2	8.1	8.0	8.0	8.4	7.8	8.2
26	8.1	8.0	8.0	8.2	8.2	8.2	8.1	8.1	8.1	8.3	8.2	8.2
27	8.1	8.0	8.0	8.3	8.2	8.2	8.1	8.0	8.1	8.3	8.2	8.3
28	8.1	7.9	8.0	8.3	8.2	8.2	8.1	8.0	8.1	8.3	8.0	8.2
29	8.1	8.0	8.0	8.3	8.2	8.2	8.1	8.0	8.0	---	---	---
30	---	---	---	8.3	8.2	8.2	8.1	8.0	8.1	8.4	8.1	8.3
31	---	---	---	8.3	8.2	8.2	---	---	---	8.3	8.2	8.2
MONTH	8.1	7.8	8.0	8.3	7.9	8.2	8.9	7.6	8.1	---	---	---

11113900 SATICOY DIVERSION NEAR SATICOY, CA--Continued

PH (UNITS), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.3	8.2	8.2	8.4	8.1	8.2	8.2	8.0	8.1	8.2	8.1	8.2
2	8.3	8.2	8.2	8.3	8.1	8.2	8.2	8.0	8.1	8.2	8.1	8.2
3	8.3	8.2	8.3	8.3	8.1	8.2	8.2	8.0	8.1	8.2	8.1	8.1
4	8.3	8.2	8.3	8.3	8.1	8.2	8.1	8.0	8.1	8.2	8.0	8.1
5	8.4	8.2	8.3	8.3	8.1	8.2	8.2	8.0	8.1	8.2	8.0	8.1
6	8.4	8.2	8.3	8.3	8.1	8.2	8.2	8.0	8.1	8.1	8.0	8.1
7	8.4	8.2	8.3	8.3	8.1	8.2	8.2	8.0	8.1	8.1	8.0	8.1
8	8.4	8.2	8.3	8.3	8.1	8.2	8.2	8.1	8.1	8.2	8.0	8.1
9	8.4	8.2	8.3	8.3	8.1	8.2	8.3	8.1	8.1	8.2	8.1	8.1
10	8.4	8.2	8.3	8.3	8.1	8.2	8.3	8.1	8.2	8.2	8.1	8.1
11	8.4	8.2	8.3	8.3	8.2	8.2	8.3	8.1	8.2	8.1	7.9	8.0
12	8.4	8.2	8.3	8.3	8.1	8.2	8.3	8.1	8.2	8.2	8.0	8.1
13	8.4	8.2	8.3	8.3	8.1	8.2	8.3	8.1	8.2	8.2	8.1	8.1
14	8.4	8.2	8.3	8.3	8.1	8.2	8.3	8.2	8.2	8.2	8.1	8.1
15	8.4	8.2	8.3	8.3	8.1	8.2	8.2	8.1	8.2	8.2	8.0	8.1
16	8.4	8.2	8.3	8.3	8.1	8.2	8.3	8.1	8.2	8.2	8.0	8.1
17	8.4	8.2	8.3	8.3	8.1	8.2	8.3	8.1	8.2	8.2	8.0	8.1
18	8.4	8.2	8.3	8.3	8.1	8.2	8.2	8.1	8.2	8.2	8.1	8.1
19	8.4	8.1	8.3	8.3	8.1	8.2	8.2	8.1	8.1	8.2	8.1	8.1
20	8.4	8.2	8.3	8.3	8.1	8.2	8.2	8.1	8.1	8.2	8.1	8.2
21	8.4	8.2	8.3	8.3	8.1	8.2	8.2	8.1	8.1	8.2	8.1	8.1
22	8.4	8.2	8.2	8.2	8.1	8.1	8.2	8.0	8.1	8.2	8.1	8.1
23	8.4	8.2	8.3	8.3	8.1	8.2	8.2	8.0	8.1	8.2	8.1	8.1
24	8.4	8.2	8.3	8.3	8.1	8.2	8.1	8.0	8.1	8.2	8.1	8.1
25	8.3	8.2	8.2	8.3	8.1	8.2	8.2	8.0	8.1	8.2	8.1	8.1
26	8.4	8.2	8.2	8.3	8.1	8.2	8.2	8.0	8.1	8.2	8.1	8.1
27	8.3	8.1	8.2	8.3	8.1	8.2	8.2	8.0	8.1	8.2	8.1	8.1
28	8.3	7.9	8.1	8.3	8.1	8.2	8.2	8.0	8.1	8.2	8.0	8.1
29	8.3	8.0	8.2	8.3	8.0	8.1	8.2	8.0	8.1	8.2	8.0	8.1
30	8.3	8.1	8.2	8.2	8.0	8.1	8.2	8.0	8.1	8.2	8.0	8.1
31	---	---	---	8.2	8.0	8.1	8.3	8.1	8.2	---	---	---
MONTH	8.4	7.9	8.3	8.4	8.0	8.2	8.3	8.0	8.1	8.2	7.9	8.1
YEAR	8.9	7.5	8.1									

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	17.0	12.5	---	---	15.5	12.0	18.5	11.0
2	---	---	22.5	14.5	17.5	11.0	---	---	17.5	12.5	19.5	11.5
3	---	---	23.0	15.5	14.0	10.5	15.5	10.0	16.0	11.5	19.5	11.5
4	---	---	21.5	14.5	11.0	6.5	17.0	10.5	18.5	12.0	19.5	11.5
5	---	---	21.5	15.0	14.5	3.5	18.0	11.5	18.5	11.0	17.0	8.5
6	---	---	22.0	15.0	15.5	9.0	17.5	11.0	19.5	11.5	---	---
7	25.5	19.5	21.0	15.5	16.0	9.5	17.0	12.5	18.5	10.5	---	---
8	22.0	19.5	20.0	13.5	17.0	10.0	15.0	13.5	17.5	10.5	19.5	11.0
9	25.5	19.0	18.0	12.0	14.5	11.5	17.5	13.0	17.0	12.0	21.0	12.0
10	25.5	17.0	19.5	13.5	17.0	11.5	17.5	10.5	18.5	12.5	22.5	12.5
11	25.5	16.0	---	---	14.5	11.5	16.0	10.5	16.0	9.5	20.5	11.5
12	26.5	16.0	---	---	16.5	11.5	14.5	10.0	18.0	10.5	20.0	12.0
13	25.5	16.5	---	---	17.0	11.0	15.5	9.5	18.0	12.0	20.0	12.0
14	24.0	15.0	---	---	18.0	11.5	15.5	10.0	19.5	13.0	21.0	15.5
15	23.0	16.0	19.5	13.0	17.5	11.5	15.5	9.5	17.0	10.0	21.5	14.0
16	23.5	15.5	19.5	13.0	16.0	12.5	13.0	10.5	17.5	12.0	21.5	12.5
17	22.5	17.0	18.5	15.5	18.0	14.5	15.5	9.5	17.0	9.0	21.5	13.5
18	24.5	15.5	20.0	15.0	17.0	11.0	15.0	8.5	17.0	9.5	20.5	11.5
19	24.0	15.5	18.5	12.0	15.0	11.0	16.0	9.5	18.0	9.5	22.5	12.0
20	23.5	15.5	17.5	12.5	16.0	12.0	16.0	9.0	17.5	9.0	23.0	12.5
21	24.0	17.0	16.5	10.5	15.0	10.0	17.0	10.5	17.0	9.0	23.0	13.5
22	24.5	15.0	15.0	9.0	16.0	12.0	16.5	10.0	17.5	10.5	22.5	12.0
23	23.5	15.0	16.0	9.5	15.0	11.0	17.0	10.0	17.0	9.0	22.5	12.0
24	24.5	15.0	---	---	---	---	18.5	10.5	17.5	10.0	21.5	12.5
25	22.5	14.5	---	---	---	---	19.0	11.5	18.5	10.0	21.5	13.0
26	24.0	15.5	---	---	---	---	15.5	11.0	16.0	9.5	17.0	14.5
27	24.0	15.0	---	---	---	---	14.5	8.0	17.0	9.5	23.5	12.5
28	24.0	16.5	---	---	---	---	18.5	10.5	18.0	10.0	23.0	12.5
29	22.0	17.0	16.0	9.5	---	---	18.5	10.5	18.5	10.5	22.5	12.5
30	---	---	14.0	11.0	---	---	17.0	11.5	---	---	22.0	11.5
31	---	---	---	---	---	---	18.0	11.0	---	---	21.0	12.5
MONTH	---	---	---	---	---	---	---	---	19.5	9.0	---	---

SANTA CLARA RIVER BASIN

11113900 SATICOY DIVERSION NEAR SATICOY, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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

11114000 SANTA CLARA RIVER AT MONTALVO, CA

LOCATION.--Lat 34°14'31", long 119°11'21", in San Miguel Grant, Ventura County, Hydrologic Unit 18070102, on downstream end of center pier of southbound bridge on U.S. Highway 101, 0.9 mi southeast of Montalvo, and 4.5 mi upstream from mouth.

DRAINAGE AREA.--1,612 mi².

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 National Geodetic Vertical Datum of 1929 (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 upstream at different datum.

REMARKS.--Records poor. Flow partly regulated by Lake Piru (station 11109500) 33 mi upstream since May 1955; by Pyramid Lake, capacity, 173,500 acre-ft 42 mi upstream since December 1971; and by Castaic Reservoir, capacity 324,000 acre-ft 43 mi upstream since January 1972. 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 upstream (station 11113900). AVERAGE DISCHARGE represents flow to the ocean regardless of upstream development.

COOPERATION.--Two discharge measurements were furnished by Ventura County Flood Control District.

AVERAGE DISCHARGE.--40 years, 159 ft³/s, 115,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 165,000 ft³/s Jan. 25, 1969, gage height, 17.41 ft, present datum; no flow for long periods in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 2, 1938, 120,000 ft³/s, estimated by Ventura County Flood Control District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,930 ft³/s Dec. 25, gage height, 4.97 ft; no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	480	224	76	400	20	22	3.7					
2	280	264	80	360	26	26	3.2					
3	150	20	526	330	26	30	1.3					
4	50	2.7	393	200	43	26	4.2					
5	16	2.3	195	200	60	30	1.1					
6	4.5	1.9	76	190	98	20	.56					
7	1.9	1.9	58	180	22	22	.28					
8	.71	1.3	61	160	26	18	0					
9	.43	1.1	220	145	24	15	0					
10	.39	.89	273	135	24	10	0					
11	.36	270	96	130	24	17	0					
12	.34	458	92	120	17	18	0					
13	.30	296	92	105	20	14	0					
14	.24	183	58	92	24	295	0					
15	.24	30	54	90	17	22	0					
16	.22	.71	51	90	15	12	0					
17	.21	.44	46	88	14	11	0					
18	.19	.17	35	86	15	7.1	0					
19	.17	.10	40	84	14	4.8	0					
20	.17	.10	32	82	11	4.8	0					
21	.17	.50	30	80	15	8.9	0					
22	.22	.45	24	80	17	8.9	0					
23	1.3	.80	18	80	18	8.0	0					
24	1.9	203	166	78	24	6.3	0					
25	1.6	1190	3310	35	22	4.8	0					
26	1.6	463	1220	21	28	4.2	0					
27	1.3	288	1100	18	22	3.7	0					
28	1.6	158	700	17	20	5.5	0					
29	.89	88	580	17	17	9.0	0					
30	.43	76	510	17	---	6.3	0					
31	78	---	450	17	---	4.2	---					
TOTAL	1075.38	4226.36	10662	3727	723	694.5	14.34	0	0	0	0	0
MEAN	34.7	141	344	120	24.9	22.4	.44	0	0	0	0	0
MAX	480	1190	3310	400	98	295	3.7	0	0	0	0	0
MIN	.17	.10	18	17	11	3.7	0	0	0	0	0	0
AC-FT	2130	8380	21150	7390	1430	1380	26	0	0	0	0	0
CAL YR 1983	TOTAL	324893.69	MEAN	890	MAX	52800	MIN	0	AC-FT	644400		
WTR YR 1984	TOTAL	21122.58	MEAN	57.7	MAX	3310	MIN	0	AC-FT	41900		

11114000 SANTA CLARA RIVER AT MONTALVO, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to current year.

WATER TEMPERATURES: Water years 1968, 1969, 1971-81, 1982 to current year.

SEDIMENT RECORDS: Water years 1968 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1967 to September 1969, October 1970 to September 1981, October 1982 to current year.

SEDIMENT RECORDS: October 1967 to September 1981, October 1982 to current year.

REMARKS.--Prior to October 1969, published as "at Saticoy" (station 11113920). Suspended-sediment discharge was estimated from a daily sediment transport curve for those days with no concentration data listed.

EXTREMES FOR PERIOD OF RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 108,000 mg/L Mar. 4, 1978; minimum daily mean, no flow many days most years.

SEDIMENT DISCHARGE: Maximum daily, 20,400,000 tons Feb. 25, 1969; minimum daily, 0 tons many days during each year.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 4,480 mg/L Dec. 26; no flow many days.

SEDIMENT DISCHARGE: Maximum daily, 105,000 tons Dec. 25; minimum daily, 0 tons many days.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	14.5	---	12.5	11.0	12.0					
2	---	15.0	17.0	---	11.0	11.0	12.0					
3	22.0	19.0	---	---	12.0	10.0	12.5					
4	---	18.5	---	---	13.5	10.5	12.0					
5	27.5	---	---	---	15.5	8.0	14.0					
6	24.0	---	16.0	17.0	14.5	8.0	14.0					
7	22.0	---	9.0	12.5	11.5	8.5	14.0					
8	22.5	---	---	13.5	12.5	11.0	---					
9	25.0	---	---	15.0	12.0	10.0	---					
10	---	---	14.5	10.0	10.0	14.5	---					
11	23.5	---	---	10.0	8.0	11.0	---					
12	---	---	---	10.0	11.0	20.0	---					
13	---	---	13.0	8.5	13.5	12.5	---					
14	---	---	---	9.5	11.5	15.0	---					
15	---	---	---	10.0	7.5	15.0	---					
16	---	---	---	10.5	14.5	14.0	---					
17	---	15.5	---	15.5	---	14.0	---					
18	---	13.0	---	8.5	6.5	11.0	---					
19	---	---	---	10.0	---	13.0	---					
20	21.0	---	---	8.0	---	12.0	---					
21	---	7.5	---	10.5	16.0	14.5	---					
22	---	6.0	---	9.0	8.5	12.5	---					
23	---	---	---	10.0	7.0	14.0	---					
24	---	---	---	10.5	6.5	11.5	---					
25	19.0	---	---	12.5	8.0	16.0	---					
26	---	---	13.0	11.5	9.5	21.0	---					
27	---	---	---	7.0	12.0	13.5	---					
28	---	9.0	---	---	9.5	11.5	---					
29	---	8.0	---	11.5	8.5	---	---					
30	---	10.0	---	---	---	11.5	---					
31	---	---	---	20.5	---	12.5	---					
MONTH	---	---	---	---	11.0	12.5	---					

11114000 SANTA CLARA RIVER AT MONTALVO, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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	480	---	3500	224	---	2850	76	350	72
2	280	---	1430	264	2310	1910	80	320	69
3	150	---	520	20	750	41	526	---	4100
4	50	---	100	2.7	---	1.5	393	---	2400
5	16	---	20	2.3	---	1.2	195	---	570
6	4.5	---	3.2	1.9	---	.92	76	280	57
7	1.9	246	1.2	1.9	---	.92	58	290	45
8	.71	200	.38	1.3	---	.54	61	260	43
9	.43	210	.24	1.1	---	.42	220	1330	1470
10	.39	200	.21	.89	---	.31	273	1850	1410
11	.36	140	.14	270	---	1350	96	570	148
12	.34	---	.08	458	---	3250	92	360	89
13	.30	---	.06	296	---	1550	92	325	81
14	.24	---	.04	183	---	720	58	---	30
15	.24	---	.04	30	---	48	54	---	26
16	.22	---	.04	.71	---	.22	51	---	23
17	.21	---	.03	.44	---	.10	46	---	19
18	.19	---	.03	.17	140	.06	35	---	11
19	.17	---	.02	.10	20	.01	40	---	14
20	.17	128	.06	.10	10	.01	32	---	9.4
21	.17	---	.02	.50	130	.18	30	---	8.4
22	.22	---	.04	.45	68	.08	24	---	5.5
23	1.3	---	.54	.80	---	.26	18	---	3.2
24	1.9	---	.94	203	---	850	166	---	350
25	1.6	248	1.1	1190	---	17000	3310	---	105000
26	1.6	---	.70	463	---	3300	1220	4480	16100
27	1.3	---	.54	288	---	1350	1100	---	15500
28	1.6	---	.70	158	560	239	700	---	6800
29	.89	---	.32	88	300	71	580	---	4900
30	.43	---	.11	76	260	53	510	---	3900
31	.78	---	190	---	---	---	450	---	3100
TOTAL	1075.38	---	5770.78	4226.36	---	34588.73	10662	---	166352.5
DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	400	---	2500	20	55	3.6	22	72	4.3
2	360	---	2100	26	55	3.9	26	120	8.4
3	330	---	1800	26	56	3.9	30	130	11
4	200	---	600	43	47	5.5	26	67	4.7
5	200	---	600	60	93	31	30	134	17
6	190	---	520	98	324	116	20	85	4.6
7	180	---	440	22	57	3.4	22	70	4.2
8	160	---	310	26	70	4.9	18	45	2.2
9	145	---	240	24	78	5.1	15	53	2.1
10	135	---	200	24	---	5.4	10	44	1.2
11	130	---	180	24	65	4.2	17	58	2.7
12	120	---	150	17	20	.92	18	65	3.2
13	105	---	110	20	17	.92	14	---	2.0
14	92	---	82	24	34	2.2	295	---	1400
15	90	---	76	17	25	1.1	22	53	3.1
16	90	---	76	15	26	1.1	12	48	1.6
17	88	---	72	14	31	1.2	11	30	.89
18	86	---	70	15	30	1.2	7.1	27	.52
19	84	---	64	14	32	1.2	4.8	33	.43
20	82	---	62	11	42	1.2	4.8	57	.74
21	80	---	58	15	60	2.4	8.9	57	1.4
22	80	---	58	17	60	2.8	8.9	52	1.2
23	80	---	58	18	67	3.3	8.0	67	1.4
24	78	---	54	24	63	4.1	6.3	65	1.1
25	35	---	11	22	50	3.0	4.8	55	.71
26	21	---	4.2	28	76	5.7	4.2	40	.45
27	18	---	3.2	22	57	3.4	3.7	32	.32
28	17	---	2.9	20	47	2.5	5.5	30	.45
29	17	---	2.9	17	40	1.8	9.0	43	1.0
30	17	---	2.9	---	---	---	6.3	77	1.3
31	17	57	2.6	---	---	---	4.2	53	.60
TOTAL	3727	---	10509.7	723	---	226.34	694.5	---	1484.81

SANTA CLARA RIVER BASIN

11114000 SANTA CLARA RIVER AT MONTAIVO, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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	3.7	57	.57						
2	3.2	34	.19						
3	1.3	48	.17						
4	4.2	107	2.1						
5	1.1	50	.15						
6	.56	21	.03						
7	.28	7	.01						
8	0	---	---						
9	0	---	---						
10	0	---	---						
11	0	---	---						
12	0	---	---						
13	0	---	---						
14	0	---	---						
15	0	---	---						
16	0	---	---						
17	0	---	---						
18	0	---	---						
19	0	---	---						
20	0	---	---						
21	0	---	---						
22	0	---	---						
23	0	---	---						
24	0	---	---						
25	0	---	---						
26	0	---	---						
27	0	---	---						
28	0	---	---						
29	0	---	---						
30	0	---	---						
31	---	---	---						
TOTAL	14.34	---	---						
YEAR	21122.58		218937						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTANTANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
OCT								
03...	1340	231	22.0	1950	1220	25	32	39
JAN								
15...	0930	90	10.0	337	82	--	--	--
17...	1400	88	15.5	241	57	--	--	--
29...	0930	17	11.5	304	14	--	--	--
31...	1415	17	20.5	56	2.6	--	--	--
MAR								
06...	1205	24	13.0	100	6.5	--	--	--
DATE		SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM
OCT								
03...		59	79	85	87	93	99	100
JAN								
15...		--	--	37	48	75	98	100
17...		--	--	33	44	76	100	--
29...		--	--	70	77	85	100	--
31...		--	--	46	69	85	100	--
MAR								
06...		--	--	42	61	81	100	--

11114000 SANTA CLARA RIVER AT MONTALVO, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	BED	BED	BED	BED	BED	BED	BED	BED	BED	
		MAT.	MAT.	MAT.	MAT.	MAT.	MAT.	MAT.	MAT.	MAT.	
		SIEVE	SIEVE	SIEVE	SIEVE	SIEVE	SIEVE	SIEVE	SIEVE	SIEVE	
		DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	
		% FINER	% FINER	% FINER	% FINER	% FINER	% FINER	% FINER	% FINER	% FINER	
		THAN	THAN	THAN	THAN	THAN	THAN	THAN	THAN	THAN	
		.062 MM	.125 MM	.250 MM	.500 MM	1.00 MM	2.00 MM	4.00 MM	8.00 MM	16.0 MM	32.0 MM
NOV											
03...	1430	5	11	32	62	77	83	88	91	96	100

11115000 MATILIJA RESERVOIR AT MATILIJA HOT SPRINGS, CA

LOCATION.--Lat 34°29'08", long 119°18'25", in NE 1/4 NW 1/4 SE 1/4 sec.29, T.5 N., R.23 W., Ventura County, Hydrologic Unit 18070101, on left end of dam on Ventura River, 0.2 mi east of Matilija Hot Springs, and 1.8 mi southwest of Wheeler Springs.

DRAINAGE AREA.--54.4 mi².

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 0.00 ft Ventura County Department of Public Works datum. 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. Structural modifications have resulted in lowering the crest of the dam since March 1964. A new capacity table dated June 1978 was furnished by Ventura County Flood Control District. Lowest sluice gate silted, elevation, 1,000 ft. Usable capacity, 1,475 acre-ft between elevations 1,064 ft, lowest usable outlet and 1,095 ft, crest of spillway. Dead storage below lowest usable outlet, 218 acre-ft. Capacity below spillway, 1,693 acre-ft. Water is released from reservoir to natural stream for recharge of ground-water basin in Ventura River Valley and since May 1959 is at times diverted at Robles diversion dam downstream to Lake Casitas on Coyote Creek.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 7,399 acre-ft Apr. 3, 1958, elevation, 1,128.10 ft; minimum, reservoir dry several days in 1979 due to construction.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum contents from October 1965 to September 1970, 3,128 acre-ft Jan. 25, 1969, elevation, 1,103.6 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,790 acre-ft Dec. 25, elevation, 1,096.48 ft; minimum, 342 acre-ft, Feb. 29, elevation, 1,068.15 ft.

MONTHEND ELEVATION NGVD AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	1,077.21	690	--
Oct. 31.....	1,090.70	1,420	+730
Nov. 30.....	1,082.00	924	-496
Dec. 31.....	1,074.65	579	-345
CAL YR 1983.....	--	--	+111
Jan. 31.....	1,092.18	1,510	+931
Feb. 29.....	1,068.63	357	-1153
Mar. 31.....	1,083.07	980	+623
Apr. 30.....	1,084.59	1,060	+80
May 31.....	1,086.64	1,180	+120
June 30.....	1,082.85	969	-211
July 31.....	1,084.23	1,040	+71
Aug. 31.....	1,084.77	1,070	+30
Sept. 30.....	1,084.48	1,060	-10
WTR YR 1984.....	--	--	+370

11115500 MATILIJA CREEK AT MATILIJA HOT SPRINGS, CA

LOCATION.--Lat 34°28'58", long 119°18'03", in SW 1/4 NW 1/4 SW 1/4 sec.28, T.5 N., R.23 W., Ventura County, Hydrologic Unit 18070101, on right bank 0.2 mi east of Matilija Hot Springs, 0.2 mi upstream from North Fork, and 0.4 mi downstream from Matilija Dam.

DRAINAGE AREA.--54.6 mi².

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, from topographic map. Prior to Feb. 11, 1939, at site 0.6 mi upstream at different datum.

REMARKS.--Records good except those for period of no gage-height record, July 12 to Sept. 30, which are poor. Flow regulated by Matilija Reservoir March 1948 to March 1964, capacity, 7,020 acre-ft. Structural modification of dam and siltation has resulted in only partial regulation since March 1964. Current capacity, 1,693 acre-ft, capacity table dated June 23, 1978.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,000 ft³/s Jan. 25, 1969, gage height, 16.5 ft, from rating curve extended above 4,200 ft³/s on basis of computation of maximum flow over dam; minimum daily, 0.10 ft³/s for several days in some years of regulated flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,250 ft³/s Dec. 25, gage height, 5.51 ft; minimum daily, 0.17 ft³/s Dec. 15, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	.47	155	74	34	.33	9.8	4.2	3.3	2.1	1.5	2.3
2	104	.28	69	64	62	.29	9.7	4.2	3.3	2.1	1.5	2.3
3	189	.26	46	59	62	.27	9.6	4.1	3.3	2.0	1.5	2.3
4	151	21	42	55	61	.27	9.7	3.9	4.0	2.0	1.5	2.3
5	73	34	36	51	61	.25	9.5	4.0	4.6	2.1	1.5	2.3
6	48	34	18	49	60	.24	9.3	4.2	4.6	2.5	1.5	2.3
7	21	33	.24	47	22	.24	9.3	4.4	4.6	2.6	1.5	2.3
8	.32	38	.20	44	2.1	.24	9.3	4.3	4.6	2.5	1.5	2.3
9	.28	55	.25	36	2.1	.27	9.0	4.1	4.3	2.5	1.5	2.3
10	.27	55	.21	.43	2.2	.24	8.9	3.9	4.1	2.5	1.5	2.3
11	.27	54	.20	.32	2.2	.23	8.2	3.9	4.3	2.4	1.5	2.3
12	.26	53	.20	35	2.3	.24	8.0	3.9	4.2	1.5	1.5	2.3
13	.24	44	.18	54	2.3	.27	7.8	3.8	4.2	1.5	1.9	2.3
14	.23	.35	.18	53	2.3	.35	7.8	3.7	4.0	1.5	2.3	2.3
15	.24	.24	.17	33	2.3	.28	7.8	3.3	3.9	1.5	2.3	2.3
16	.24	35	.19	1.6	2.3	.27	7.1	3.3	3.9	1.5	2.3	2.3
17	.26	158	.19	1.5	2.3	.27	5.5	3.3	5.2	1.5	2.3	2.3
18	.27	126	.18	1.5	2.3	.47	5.3	3.3	9.7	1.5	2.3	2.3
19	.26	57	.19	1.5	2.3	1.3	4.9	3.3	15	1.5	2.3	2.3
20	.25	30	.18	1.5	2.4	1.4	4.7	3.3	14	1.5	2.3	2.3
21	.28	.30	.17	1.5	109	1.3	4.6	3.3	14	1.5	2.3	2.3
22	.28	.23	14	1.5	218	1.3	4.4	3.3	13	1.5	2.3	2.3
23	.24	.20	56	1.5	122	1.3	4.4	3.3	12	1.5	2.3	2.3
24	.26	.46	126	1.5	56	1.3	4.5	3.3	10	1.5	2.3	2.3
25	.26	.33	597	1.5	35	1.3	4.2	3.3	11	1.5	2.3	2.3
26	.28	.27	296	1.6	25	1.3	4.4	3.3	10	1.5	2.3	2.3
27	.26	.24	252	1.5	19	1.3	4.4	3.3	8.5	1.5	2.3	2.3
28	.26	.20	235	1.6	17	28	4.3	3.3	2.7	1.5	2.3	2.3
29	.26	.20	214	1.7	9.7	58	4.2	3.3	2.5	1.5	2.3	2.3
30	.31	94	151	1.7	---	27	4.2	3.3	2.5	1.5	2.3	2.3
31	.31	---	96	1.7	---	14	---	3.3	---	1.5	2.3	---
TOTAL	604.39	925.03	2405.93	679.65	1002.1	143.82	204.8	112.7	195.3	55.3	61.3	69.0
MEAN	19.5	30.8	77.6	21.9	34.6	4.64	6.83	3.64	6.51	1.78	1.98	2.30
MAX	189	158	597	74	218	58	9.8	4.4	15	2.6	2.3	2.3
MIN	.23	.20	.17	.32	2.1	.23	4.2	3.3	2.5	1.5	1.5	2.3
AC-FT	1200	1830	4770	1350	1990	285	406	224	387	110	122	137
CAL YR 1983	TOTAL	51226.27	MEAN	140	MAX	7740	MIN	.17	AC-FT	101600		
WTR YR 1984	TOTAL	6459.32	MEAN	17.6	MAX	597	MIN	.17	AC-FT	12810		

VENTURA RIVER BASIN

11116550 VENTURA RIVER NEAR MEINERS OAKS, CA

LOCATION.--Lat 34°27'49", long 119°17'22", in NE 1/4 NW 1/4 NE 1/4 sec.4, T.4 N., R.23 W., Ventura County, Hydrologic Unit 18070101, on right bank 500 ft downstream from Robles diversion dam, and 1.2 mi northwest of Meiners Oaks.

DRAINAGE AREA.--76.4 mi².

PERIOD OF RECORD.--May 1959 to September 1978, December 1980 to February 1983, January to September 1984.

GAGE.--Water-stage recorder and concrete control since December 1980. Datum of gage is 745.85 ft Bureau of Reclamation datum. Prior to Oct. 30, 1969, at datum 1.25 ft lower. Oct. 30, 1969, to Sept. 30, 1978, at site 500 ft upstream at datum 4.15 ft higher.

REMARKS.--Records fair. Flow regulated by Matilija Reservoir, capacity, 1,690 acre-ft. Flow up to 500 ft³/s diverted since May 1959 at Robles diversion dam to Lake Casitas on Coyote Creek. Flow reported herein is that released downstream from Robles diversion dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,000 ft³/s estimated, Jan. 25, 1969, gage height unknown; no flow for several months in most years.

EXTREMES FOR CURRENT PERIOD.--Maximum discharge, not determined; no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, JANUARY TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					27	.83	9.3	1.2	0	.04		
2					63	.03	8.6	1.1	0	0		
3					64	0	8.0	.50	.30	0		
4					64	0	7.9	.30	.90	0		
5					63	0	8.1	.39	1.3	0		
6					62	0	8.0	.71	.77	0		
7					30	0	7.4	.59	.77	0		
8					4.4	0	7.3	.05	.53	0		
9					3.3	0	6.8	0	.42	0		
10					2.8	0	6.2	0	.72	0		
11					2.6	0	5.1	0	.37	0		
12					2.6	0	4.6	0	.33	0		
13				54	2.5	0	4.7	.10	.43	0		
14				54	2.3	.29	4.7	.06	.19	0		
15				41	2.4	.24	5.3	0	.12	0		
16				5.9	2.2	.12	4.7	0	.13	0		
17				3.9	2.0	0	2.8	0	.22	0		
18				3.3	1.9	0	2.8	0	3.0	0		
19				3.0	1.5	.25	2.5	0	8.7	0		
20				1.3	1.5	.23	2.6	0	9.2	0		
21				0	1.2	.36	2.5	0	9.4	0		
22				0	.05	.57	1.6	0	8.7	0		
23				0	0	.36	1.6	.46	7.6	0		
24				0	0	.15	1.2	.41	7.4	0		
25				0	0	0	.97	.12	6.9	0		
26				0	0	0	.59	.01	5.4	0		
27				.70	0	.29	.74	.02	5.3	0		
28				1.4	0	17	1.8	.33	.21	0		
29				1.7	9.3	49	1.5	.05	0	0		
30				6.9	---	26	1.7	0	0	0		
31				2.7	---	14	---	0	---	0		
TOTAL				---	415.55	109.72	131.80	6.42	79.31	0.04	0	0
MEAN				---	14.3	3.54	4.39	.21	2.64	.001	0	0
MAX				---	64	49	9.3	1.2	9.4	.04	0	0
MIN				---	0	0	.59	0	0	0	0	0
AC-FT				---	824	218	261	13	157	.08	0	0

11117600 COYOTE CREEK NEAR OAK VIEW, CA

LOCATION.--Lat 34°25'00", long 119°22'11", in Santa Ana Grant, Ventura County, Hydrologic Unit 18070101, on left bank at Los Padres National Forest boundary, 0.8 mi upstream from Poplin Creek, and 4.2 mi northwest of Oak View.

DRAINAGE AREA.--13.2 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 577.37 ft Bureau of Reclamation datum. Prior to Oct. 1, 1980, at site 1,000 ft downstream at datum 16.90 ft lower.

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

AVERAGE DISCHARGE.--26 years, 8.36 ft³/s, 6,060 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,000 ft³/s Jan. 25, 1969, gage height, 12.00 ft site and datum then in use, from floodmarks, from rating curve extended above 2,100 ft³/s on basis of slope-area measurements at gage heights 9.10 ft and 12.00 ft; maximum gage height, 13.72 ft Feb. 16, 1980, site and datum then in use, from backwater from Casitas Reservoir; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s and maximum (*), from rating curve extended above 82 ft³/s on basis of slope-area measurements at gage heights 4.57 ft and 7.53 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	0745	*260	3.75
Dec. 25	0515	227	3.63

Minimum daily discharge, 0.03 ft³/s Sept. 6, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	3.3	3.3	5.5	2.4	1.5	.95	.84	.36	.35	.09	.04
2	8.5	3.1	3.1	5.2	2.5	1.5	.95	.84	.41	.34	.08	.05
3	3.8	2.1	18	4.9	2.5	1.5	.95	.81	.45	.34	.07	.05
4	2.5	1.8	9.7	4.6	2.5	1.5	.95	.80	.40	.33	.07	.04
5	2.3	1.7	5.8	4.4	2.5	1.5	.95	.74	.38	.34	.07	.04
6	2.0	1.8	4.7	4.3	2.3	1.5	1.0	.74	.39	.32	.07	.03
7	1.8	1.8	4.0	4.1	2.3	1.5	1.1	.71	.38	.28	.06	.04
8	1.7	1.9	3.6	3.9	2.3	1.5	1.1	.65	.36	.27	.06	.04
9	1.7	1.8	4.9	4.0	2.2	1.5	1.1	.62	.36	.26	.06	.03
10	1.6	1.6	4.9	3.8	2.1	1.5	1.0	.60	.38	.24	.08	.06
11	1.2	13	4.1	3.6	2.1	1.4	.95	.56	.40	.22	.08	.48
12	.95	8.4	4.0	3.6	2.1	1.3	.95	.54	.50	.22	.07	.37
13	.95	5.2	3.8	3.3	2.1	1.3	.95	.56	.53	.21	.06	.29
14	.90	3.7	3.8	3.3	2.0	2.5	.91	.56	.49	.21	.07	.19
15	.90	3.1	3.8	3.1	1.9	1.8	.84	.56	.48	.20	.20	.15
16	.90	2.6	3.8	3.1	1.9	1.6	.82	.53	.48	.19	.20	.12
17	.90	2.3	3.6	3.0	1.9	1.5	.74	.48	.46	.16	.09	.11
18	.90	2.3	3.4	2.8	1.9	1.3	.74	.48	.49	.18	.08	.10
19	.90	2.3	3.1	2.7	1.9	1.3	.78	.46	.48	.21	.08	.07
20	.90	2.2	3.1	2.5	1.9	1.2	.80	.44	.48	.18	.08	.11
21	.90	2.3	3.1	2.7	1.9	1.2	.84	.46	.48	.17	.09	.13
22	.85	2.1	2.9	2.7	1.8	1.1	.84	.46	.46	.19	.08	.19
23	.85	2.1	2.9	2.6	1.8	1.1	.80	.40	.45	.23	.06	.21
24	.85	24	4.4	2.5	1.8	1.1	.81	.40	.44	.18	.05	.26
25	.85	27	125	2.5	1.8	1.1	.80	.38	.42	.15	.06	.24
26	.85	7.9	40	2.5	1.8	1.0	.82	.37	.40	.13	.08	.17
27	.85	5.2	20	2.5	1.7	.95	.84	.36	.41	.10	.08	.18
28	.85	4.1	13	2.5	1.6	.95	.84	.35	.40	.10	.05	.21
29	.85	3.6	10	2.5	1.5	.95	.84	.33	.41	.10	.05	.18
30	.99	3.4	8.0	2.5	---	.95	.84	.36	.39	.10	.05	.19
31	1.3	---	6.0	2.3	---	.95	---	.36	---	.08	.04	---
TOTAL	118.29	147.7	333.8	103.5	59.0	41.55	26.80	16.75	12.92	6.58	2.41	4.37
MEAN	3.82	4.92	10.8	3.34	2.03	1.34	.89	.54	.43	.21	.078	.15
MAX	73	27	125	5.5	2.5	2.5	1.1	.84	.53	.35	.20	.48
MIN	.85	1.6	2.9	2.3	1.5	.95	.74	.33	.36	.08	.04	.03
AC-FT	235	293	662	205	117	82	53	33	26	13	4.8	8.7
CAL YR 1983	TOTAL	7827.6	MEAN	21.4	MAX	718	MIN	.85	AC-FT	15530		
WTR YR 1984	TOTAL	873.67	MEAN	2.39	MAX	125	MIN	.03	AC-FT	1730		

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, Hydrologic Unit 18070101, on upstream end of right abutment of bridge on Santa Ana Road, 400 ft upstream from unnamed tributary, and 3.0 mi northwest of Oak View.

DRAINAGE AREA.--9.11 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 612.43 ft Bureau of Reclamation datum. Prior to Aug. 17, 1970, on downstream end of right abutment at same datum.

REMARKS.--Records good. Low flow slightly regulated by one small reservoir upstream. Some small diversions above station.

AVERAGE DISCHARGE.--26 years, 6.23 ft³/s, 4,510 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,330 ft³/s Mar. 4, 1978, gage height, 10.01 ft, from rating curve extended above 1,000 ft³/s on basis of slope-area measurement at gage height 8.57 ft, maximum gage height, 10.70 ft Jan. 25, 1969; no flow at times in each year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 2, 1938, reached a discharge of 3,780 ft³/s, by slope-area measurement at site 2.0 mi downstream.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	0715	*1,100	7.23
Dec. 3	1315	164	5.13
Dec. 25	0515	416	5.99

Minimum, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	4.4	5.9	13	3.5	1.9	.69	.42	.06			
2	8.7	2.1	5.4	11	3.5	1.3	.86	.37	.06			
3	5.4	1.6	24	10	3.5	1.3	.86	.32	.06			
4	7.1	1.4	10	9.2	3.3	1.2	1.0	.14	.06			
5	4.0	1.3	8.3	8.6	3.1	1.1	1.2	.16	.06			
6	3.0	1.4	7.6	8.0	3.2	1.2	1.1	.17	.06			
7	3.5	1.4	7.0	7.5	3.1	1.1	.90	.20	.06			
8	2.2	1.4	6.5	7.2	3.1	1.1	.81	.19	.05			
9	2.0	1.2	8.7	6.8	2.7	1.1	.47	.11	.05			
10	1.8	.97	7.4	6.4	2.5	1.0	.72	.12	.05			
11	1.7	12	7.0	6.1	2.6	.98	.71	.17	.05			
12	1.6	7.4	6.7	5.9	2.5	.88	.58	.10	.05			
13	1.2	5.6	6.3	5.7	3.0	.96	.56	.14	.05			
14	1.1	4.6	6.2	5.4	3.0	2.1	.43	.11	.04			
15	1.6	4.0	6.0	5.3	2.9	1.2	.34	.10	.04			
16	1.6	3.7	5.7	5.2	2.9	1.0	.31	.09	.03			
17	1.5	3.5	5.6	4.9	2.9	1.0	.27	.08	.03			
18	1.5	3.3	5.4	4.7	2.9	.94	.33	.08	.03			
19	1.5	3.2	5.2	4.5	2.8	.91	.41	.07	.02			
20	1.5	3.2	5.0	4.5	2.5	.87	.37	.07	.02			
21	1.2	3.1	5.2	4.3	2.3	1.1	.35	.07	.02			
22	1.4	2.9	5.4	4.2	2.2	.99	.27	.07	.01			
23	1.4	2.8	5.3	4.1	2.0	.76	.27	.07	.01			
24	1.3	32	11	3.9	1.6	.88	.21	.07	.01			
25	1.1	24	211	3.9	1.7	.97	.15	.07	.01			
26	1.2	12	73	3.7	2.0	1.1	.18	.07	.01			
27	1.3	9.1	38	3.7	2.0	1.1	.29	.07	.01			
28	1.1	7.7	25	3.7	2.0	1.0	.41	.06	.01			
29	1.3	6.9	20	3.5	1.9	.67	.40	.06	.01			
30	1.4	6.3	17	3.5	---	.72	.44	.06	0			
31	1.5	---	14	3.5	---	.84	---	.06	---			
TOTAL	186.7	174.47	574.8	181.9	77.2	33.27	15.89	3.94	1.03	0	0	0
MEAN	6.02	5.82	18.5	5.87	2.66	1.07	.53	.13	.034	0	0	0
MAX	120	32	211	13	3.5	2.1	1.2	.42	.06	0	0	0
MIN	1.1	.97	5.0	3.5	1.6	.67	.15	.06	0	0	0	0
AC-FT	370	346	1140	361	153	66	32	7.8	2.0	0	0	0
CAL YR 1983	TOTAL	7531.89	MEAN	20.6	MAX	808	MIN	.24	AC-FT	14940		
WTR YR 1984	TOTAL	1249.20	MEAN	3.41	MAX	211	MIN	0	AC-FT	2480		

11117900 LAKE CASITAS NEAR CASITAS SPRINGS, CA

LOCATION.--Lat 34°22'24", long 119°19'56", in Santa Ana Grant, Ventura County, Hydrologic Unit 18070101, on left end of dam on Coyote Creek, 1.5 mi west of Casitas Springs.

DRAINAGE AREA.--38.6 mi².

PERIOD OF RECORD.--December 1978 to current year. Daily readings prior to December 1978 in files of Casitas Municipal Water District.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by earthfill dam. Storage began January 1959. Capacity table is dated December 1958. Usable capacity, 250,835 acre-ft between bottom of lowest outlet gate at elevation 350.00 ft and crest of spillway at elevation 567.00 ft. Dead storage, 3,167 acre-ft included in contents. Flow from Ventura River is diverted at Robles Diversion Dam through concrete canal to Lake Casitas and is included in these records.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 260,100 acre-ft Feb. 21, 1980, elevation, 569.24 ft; minimum, 206,500 acre-ft Nov. 8, 1982, elevation, 548.44 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 250,000 acre-ft Jan. 2, elevation, 565.50 ft; minimum, 225,000 acre-ft Sept. 30, elevation, 555.94 ft.

MONTHEND ELEVATION NGVD AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	564.20	246,500	--
Oct. 31.....	564.04	246,000	-500
Nov. 30.....	564.40	247,000	+1,000
Dec. 31.....	565.49	249,900	+2,900
CAL YR 1983.....	--	--	+35,900
Jan. 31.....	565.25	249,300	-600
Feb. 29.....	565.06	248,800	-500
Mar. 31.....	564.27	246,700	-2,100
Apr. 30.....	563.27	244,000	-2,700
May 31.....	562.02	240,700	-3,300
June 30.....	560.57	236,900	-3,800
July 31.....	559.09	233,100	-3,800
Aug. 31.....	557.37	228,600	-4,500
Sept. 30.....	555.94	225,000	-3,600
WTR YR 1984.....	--	--	-21,500

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, Hydrologic Unit 18070101, on right bank 50 ft downstream from bridge on Casitas Pass Road at Foster Memorial Park, 0.2 mi downstream from Coyote Creek, and 5 mi north of Ventura.

DRAINAGE AREA.--188 mi².

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 Marshall flume on diversion. Datum of gage is 205.23 ft Ventura County Flood Control datum. See WSP 1315-B for history of changes prior to Nov. 2, 1949. Nov. 2, 1949, to June 12, 1969, at site 450 ft downstream at datum 4.00 ft lower.

REMARKS.--Records fair. Flow partly regulated since March 1948 by Matilija Reservoir, usable capacity, 1,475 acre-ft and since October 1959 by Casitas Reservoir, capacity, 267,000 acre-ft. 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 up-stream development. For records of combined discharge of river and Ventura City diversion, see following page.

AVERAGE DISCHARGE.--River only: 57 years (water years 1912-13, 1930-84), 62.2 ft³/s, 45,060 acre-ft/yr. Combined river and diversion: 52 years, 72.0 ft³/s, 52,160 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--River only: Maximum discharge, 63,600 ft³/s Feb. 10, 1978, gage height, 19.14 ft, from rating curve extended above 34,000 ft³/s; maximum gage height, 24.3 ft Jan. 25, 1969, present datum, from floodmarks; no flow at times in many years.

Combined river and diversion: Maximum discharge, 63,600 ft³/s Feb. 10, 1978; no flow Nov. 28, 29, 1977.

EXTREMES FOR CURRENT YEAR.--River only: Maximum discharge, 1,500 ft³/s Dec. 25, gage height, 4.94 ft; no flow many days.

Combined river and diversion: Maximum discharge, 1,500 ft³/s Dec. 25; minimum daily, 0.77 ft³/s Aug. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	340	33	54	126	12	9.8	23	5.1	3.0	1.1	.60	.70
2	61	30	53	114	20	12	23	5.6	3.0	1.2	.64	.49
3	131	26	329	100	52	18	19	5.3	3.2	1.3	.63	.26
4	123	24	105	92	64	20	25	5.0	6.4	1.2	.63	.15
5	75	22	66	85	66	22	26	7.1	6.6	1.0	.65	.08
6	49	26	57	79	59	23	27	7.7	5.6	1.1	.70	.02
7	42	28	47	77	52	26	21	5.9	5.5	1.1	.71	0
8	30	28	26	74	31	29	25	4.1	3.9	1.5	.72	0
9	23	27	81	71	23	32	18	3.4	2.7	1.7	.77	0
10	19	29	67	50	21	32	15	2.9	2.9	1.4	.70	0
11	16	125	37	38	23	33	11	2.8	3.1	1.2	.62	.11
12	16	74	52	36	26	32	8.3	2.7	3.2	1.0	.53	.03
13	19	64	46	68	33	28	7.8	3.8	3.0	.98	.45	0
14	20	51	39	72	24	28	7.0	2.7	2.6	.91	.46	0
15	22	40	34	72	7.9	19	8.7	2.4	3.1	.86	.41	0
16	23	88	28	42	13	14	11	3.4	3.3	.98	.15	0
17	23	575	26	34	21	20	4.8	3.6	3.3	.86	.09	0
18	22	838	26	28	20	24	3.3	2.8	3.7	.74	.02	0
19	18	471	26	25	19	27	6.6	4.4	3.3	.74	0	0
20	14	308	26	24	19	23	10	5.4	3.2	.79	0	0
21	13	209	26	24	14	24	12	3.8	3.0	.64	0	0
22	13	160	24	27	8.4	22	19	3.2	2.0	.61	.53	0
23	14	143	24	26	8.5	20	18	2.8	2.5	.81	1.5	0
24	15	444	295	22	8.2	20	8.6	2.8	1.7	.98	1.8	0
25	15	342	1220	20	9.1	22	5.8	3.0	1.3	.58	.49	0
26	16	112	538	19	12	22	5.0	2.8	1.0	.55	.27	0
27	17	89	371	19	10	20	6.7	2.5	.92	.47	1.4	0
28	17	75	326	18	8.1	21	9.7	3.6	.89	.52	2.9	0
29	15	66	292	21	8.6	19	9.0	4.5	.84	.51	3.6	0
30	20	61	202	22	---	18	8.6	3.2	.87	.45	4.4	0
31	27	---	160	17	---	22	---	3.1	---	.46	3.4	---
TOTAL	1268	4608	4703	1542	692.8	701.8	402.9	121.4	89.62	28.24	29.77	1.84
MEAN	40.9	154	152	49.7	23.9	22.6	13.4	3.92	2.99	.91	.96	.061
MAX	340	838	1220	126	66	33	27	7.7	6.6	1.7	4.4	.70
MIN	13	22	24	17	7.9	9.8	3.3	2.4	.84	.45	0	0
AC-FT	2520	9140	9330	3060	1370	1390	799	241	178	56	59	3.6
CAL YR 1983	TOTAL	117492.0	MEAN	322	MAX	14400	MIN	3.0	AC-FT	233000		
WTR YR 1984	TOTAL	14189.37	MEAN	38.8	MAX	1220	MIN	0	AC-FT	28140		

11118501 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 1983 TO SEPTEMBER 1984

MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	348	43	63	128	23	21	29	19	14	11	9.4	9.5
2	69	39	62	117	34	22	35	16	13	11	9.4	7.4
3	141	35	338	104	59	24	29	17	12	11	9.3	8.9
4	133	33	112	102	66	24	36	16	15	11	9.3	9.1
5	85	30	73	93	69	26	36	17	17	11	9.4	9.0
6	57	31	64	86	72	27	39	15	16	11	9.3	8.8
7	50	33	54	82	67	28	31	17	15	10	9.3	8.6
8	39	38	34	81	40	31	34	17	14	11	9.2	8.5
9	30	36	88	81	35	34	29	15	14	12	9.3	8.3
10	26	37	72	60	32	34	26	15	13	11	9.2	8.4
11	25	135	41	47	32	35	23	15	13	11	9.1	8.6
12	25	83	56	46	32	34	20	14	14	11	9.0	8.8
13	29	71	51	78	34	34	20	14	14	11	8.9	8.8
14	30	59	47	79	34	39	17	13	14	11	8.9	8.7
15	32	48	41	79	28	33	18	14	14	10	8.8	8.7
16	32	97	35	50	23	31	22	13	13	10	8.4	8.6
17	31	586	33	41	28	29	19	16	13	10	8.5	8.5
18	32	848	33	38	26	32	17	15	12	10	8.4	8.5
19	26	478	32	35	25	39	17	12	14	10	8.4	8.4
20	25	315	34	34	25	33	21	15	14	10	8.4	8.2
21	25	216	35	30	23	35	22	15	14	10	3.3	8.1
22	21	170	32	30	20	33	26	14	13	9.9	.77	8.1
23	22	153	31	33	22	29	28	15	12	10	1.7	8.0
24	25	449	297	32	22	30	23	11	11	10	7.2	8.0
25	26	349	1220	30	19	32	20	14	11	10	9.6	7.8
26	30	120	540	29	20	33	19	14	12	9.5	5.1	7.7
27	27	96	377	29	20	32	15	12	12	9.7	1.6	6.4
28	31	83	334	28	19	29	21	12	12	9.5	3.1	7.9
29	25	76	301	24	20	31	18	14	12	9.4	4.0	7.7
30	27	70	210	29	---	26	21	14	11	9.5	4.6	7.5
31	36	---	163	27	---	33	---	14	---	9.4	9.2	---
TOTAL	1560	4857	4903	1782	969	953	731	454	398	320.9	230.07	249.5
MEAN	50.3	162	158	57.5	33.4	30.7	24.4	14.6	13.3	10.4	7.42	8.32
MAX	348	848	1220	128	72	39	39	19	17	12	9.6	9.5
MIN	21	30	31	24	19	21	15	11	11	9.4	.77	6.4
AC-FT	3090	9630	9730	3530	1920	1890	1450	901	789	637	456	495
CAL YR 1983	TOTAL	120873.7	MEAN	331	MAX	14400	MIN	9.8	AC-FT	239800		
WTR YR 1984	TOTAL	17407.47	MEAN	47.6	MAX	1220	MIN	.77	AC-FT	34530		

VENTURA RIVER BASIN

11118500 VENTURA RIVER NEAR VENTURA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1907 to December 1908, water years 1967 to current year.

CHEMICAL ANALYSES: December 1907 to December 1908, water years 1967-79.

WATER TEMPERATURES: Water years 1969, 1971-73, 1975-81.

SEDIMENT RECORDS: Water years 1969-73, 1975 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1968 to September 1969, October 1970 to September 1973, October 1974 to September 1981.

SEDIMENT RECORDS: October 1968 to September 1973, October 1974 to September 1981.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
OCT								
01...	1100	600	19.5	1560	2530	54	66	77
NOV								
02...	1105	29	19.0	23	1.8	--	--	--
DEC								
08...	1040	28	12.5	14	1.1	--	--	--
JAN								
06...	1125	79	13.0	7	1.5	--	--	--
FEB								
08...	1040	33	12.5	29	2.6	--	--	--
MAR								
06...	1015	22	14.0	10	.59	--	--	--
APR								
11...	1005	11	17.5	6	.18	--	--	--
MAY								
04...	1120	5.4	19.5	3	.04	--	--	--
JUN								
08...	1410	4.4	25.5	22	.26	--	--	--
AUG								
13...	1000	.45	23.5	22	.03	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
OCT							
01...	87	92	95	96	97	99	100
NOV							
02...	--	--	28	--	--	--	--
DEC							
08...	--	--	--	--	--	--	--
JAN							
06...	--	--	--	--	--	--	--
FEB							
08...	--	--	23	--	--	--	--
MAR							
06...	--	--	--	--	--	--	--
APR							
11...	--	--	--	--	--	--	--
MAY							
04...	--	--	--	--	--	--	--
JUN							
08...	--	--	--	--	--	--	--
AUG							
13...	--	--	--	--	--	--	--

11119500 CARPINTERIA CREEK NEAR CARPINTERIA, CA

LOCATION.--Lat 34°24'05", long 119°29'08", in El Rincon Grant, Santa Barbara County, Hydrologic Unit 18060013, on right bank 100 ft upstream of bridge on State Highway 192, 165 ft downstream from Gobernador Creek, and 1.8 mi northeast of Carpinteria.

DRAINAGE AREA. 13.1 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1941 to September 1977, October 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 130 ft, from topographic map. Prior to July 1, 1958, at site 100 ft downstream, at datum 6.00 ft higher. July 2, 1958, to Aug. 27, 1970, at site 65 ft downstream at datum 4.00 ft higher. Aug. 28, 1970, to Sept. 30, 1977, at site 100 ft downstream at same datum.

REMARKS.--Records fair. No regulation above station. Gobernador Land and Water Co. diverts from Gobernador Creek 1.8 mi above station. Small lake 0.8 mi 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 above station.

AVERAGE DISCHARGE.--42 years (water years 1942-77, 1979-84), 3.18 ft³/s, 2,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,880 ft³/s Dec. 27, 1971, gage height, 14.10 ft, from floodmark, from rating curve extended above 130 ft³/s on basis of slope-area measurement of maximum flow; no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges, above base of 125 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	0500	*750	6.04
Dec. 25	1330	140	4.54

Minimum, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	1.4	1.8	3.6	.83	.88	0	0	.01			
2	5.9	1.0	1.8	3.3	.83	.91	.02	0	.03			
3	5.1	.79	9.3	3.3	.87	.88	.13	0	.04			
4	3.4	.66	4.1	3.1	.78	.84	.16	0	.05			
5	2.2	.69	2.8	2.9	.73	1.8	.14	0	.03			
6	2.4	.69	3.8	2.6	.76	2.1	.11	0	.04			
7	2.1	.69	2.5	2.3	.75	.30	.01	0	.05			
8	1.8	.70	2.2	2.2	.69	.27	0	0	.03			
9	1.1	.69	3.2	2.2	1.3	.39	0	0	.04			
10	.93	.69	2.5	2.1	1.3	.25	0	0	.06			
11	.76	5.9	2.2	2.0	.73	.20	0	0	.07			
12	.66	3.5	2.1	1.8	.78	.22	0	0	.07			
13	.64	2.3	1.9	1.8	.77	.24	0	.16	.06			
14	.61	1.6	1.9	1.8	.71	1.3	0	0	.03			
15	.58	1.4	1.7	1.6	.66	.42	0	0	0			
16	.63	1.3	1.7	1.6	.71	.38	0	0	.02			
17	.65	1.3	1.7	1.7	.71	.32	0	0	.03			
18	.64	1.3	1.6	1.5	.71	.22	0	0	.02			
19	.52	1.2	1.6	1.4	.68	.22	.06	0	1.0			
20	.48	1.2	1.6	1.5	.65	.15	0	0	2.4			
21	.51	1.2	1.6	1.4	.63	.10	0	0	.43			
22	.47	1.2	1.5	1.3	.63	.08	0	0	0			
23	.42	1.2	1.4	1.2	.62	.03	0	0	0			
24	.43	6.3	2.9	1.2	.61	.02	0	0	0			
25	.40	8.8	54	1.1	.83	.06	0	0	0			
26	.42	3.0	20	1.1	.93	.10	0	0	0			
27	.41	2.5	10	1.1	.92	.10	0	0	0			
28	.45	2.3	6.7	1.1	.90	0	.01	0	0			
29	.53	2.1	5.1	1.0	.92	0	0	0	0			
30	.61	1.9	4.3	.98	---	0	0	.03	0			
31	.63	---	3.8	.97	---	0	---	.02	---			
TOTAL	111.38	59.50	163.9	56.75	22.94	12.78	0.64	0.21	4.51	0	0	0
MEAN	3.59	1.98	5.29	1.83	.79	.41	.021	.007	.15	0	0	0
MAX	74	8.8	54	3.6	1.3	2.1	.16	.16	2.4	0	0	0
MIN	.40	.66	1.4	.97	.61	0	0	0	0	0	0	0
AC-FT	221	118	325	113	46	25	1.3	.4	8.9	0	0	0
CAL YR 1983	TOTAL	6105.33	MEAN	16.7	MAX	518	MIN	0	AC-FT	12110		
WTR YR 1984	TOTAL	432.61	MEAN	1.18	MAX	74	MIN	0	AC-FT	858		

CARPINTERIA CREEK BASIN

11119500 CARPINTERIA CREEK NEAR CARPINTERIA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: October 1976 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
OCT 04...	1150	3.3	490	8.1	19.0	220	72	58	19	27	21	.8
NOV 02...	0915	.99	665	8.4	15.5	--	--	--	--	--	--	--
DEC 09...	1000	2.0	635	8.6	9.5	--	--	--	--	--	--	--
JAN 06...	1420	2.5	615	8.5	13.5	--	--	--	--	--	--	--
FEB 09...	0945	.78	660	8.5	10.5	--	--	--	--	--	--	--
MAR 07...	0845	.25	660	8.3	11.0	--	--	--	--	--	--	--

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
OCT 04...	3.6	151	95	20	14	--	330	1.4	.23	60	48
NOV 02...	--	--	--	--	--	453	--	--	--	--	--
DEC 09...	--	--	--	--	--	393	--	--	--	--	--
JAN 06...	--	--	--	--	--	413	--	--	--	--	--
FEB 09...	--	--	--	--	--	416	--	--	--	--	--
MAR 07...	--	--	--	--	--	410	--	--	--	--	--

11119745 MISSION CREEK AT ROCKY NOOK PARK, AT SANTA BARBARA, CA

LOCATION.--Lat 34°26'26", long 119°42'39", Santa Barbara County, Hydrologic Unit 18060013, on right bank, 50 ft southeast of entrance to Rocky Nook Park and 75 ft upstream of bridge on Los Olivos Street in Santa Barbara.

DRAINAGE AREA.--6.60 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1983 to September 1984.

GAGE.--Water-stage recorder. Altitude of gage is 335 ft, from topographic map.

REMARKS.--Records good except those above 50 ft³/s, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 436 ft³/s Dec. 25, gage height, 6.20 ft, from floodmarks, from rating curve extended above 41 ft³/s on basis of culvert computation of maximum flow; no flow for several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		2.2	.93	2.5	.93	.43	.30	.14	.03	.01	.01	.01
2		.93	.93	2.3	1.0	.47	.28	.14	.04	.01	.01	.01
3		.70	12	2.1	.93	.47	.28	.12	.08	.01	.01	.01
4		.70	2.6	1.9	.87	.47	.28	.10	.06	.01	.01	0
5		.70	1.6	1.7	.87	.47	1.4	.10	.06	.01	.01	0
6		.70	1.4	1.7	.87	.47	.54	.09	.04	.01	.01	0
7		.87	1.3	1.6	.81	.43	.30	.08	.04	.01	.01	0
8		1.1	1.2	1.6	.81	.43	.30	.03	.03	.01	.01	0
9		.55	7.6	1.4	.81	.43	.28	.02	.03	.01	.01	0
10		.47	2.1	1.4	.75	.40	.23	.02	.02	.01	.01	0
11		2.5	1.8	1.4	.70	.36	.23	.02	.02	.01	.01	.01
12		1.4	1.5	1.3	.70	.36	.21	.03	.02	.01	.01	.01
13		.93	1.3	1.3	.70	.40	.19	.04	.02	.01	.01	.01
14		.87	1.1	1.2	.70	1.8	.17	.04	.02	.01	.01	.01
15		.75	1.1	1.2	.70	.65	.25	.03	.04	.01	0	.01
16		.70	1.0	1.2	.65	.51	.19	.02	.02	.01	0	.01
17		.65	1.0	1.5	.55	.51	.15	.02	.02	.01	0	.01
18		.65	1.0	1.1	.60	.47	.15	.02	.03	.01	0	.01
19		.60	.93	1.1	.60	.47	.60	.02	.02	.01	0	.01
20		.99	.93	1.0	.55	.43	.21	.02	.02	.01	0	.01
21		2.5	1.0	1.0	.55	.43	.14	.02	.02	.01	0	.01
22		2.6	.93	1.0	.55	.33	.12	.04	.02	.01	0	.01
23		1.9	1.0	1.0	.55	.33	.12	.04	.02	.01	0	.01
24		4.6	3.5	1.0	.47	.30	.47	.07	.02	.01	.01	.01
25		4.1	105	.93	.47	.30	.17	.08	.02	.01	.01	.01
26		3.4	19	.87	.43	.33	.21	.06	.02	.01	.01	.01
27		3.1	8.6	.81	.43	.36	.14	.06	.02	.01	.01	.01
28	.81	2.6	5.3	.87	.43	7.4	.12	.06	.02	.01	.01	.01
29	.60	.93	4.0	.81	.43	7.8	.11	.05	.02	.01	.01	.01
30	.65	.87	3.2	.81	---	1.4	.14	.04	.02	.01	.01	.01
31	.70	---	2.8	.81	---	.43	---	.03	---	.01	.01	---
TOTAL	---	45.56	197.65	40.41	19.41	29.84	8.28	1.65	0.86	0.31	0.22	0.23
MEAN	---	1.52	6.38	1.30	.67	.96	.28	.053	.029	.010	.007	.008
MAX	---	4.6	105	2.5	1.0	7.8	1.4	.14	.08	.01	.01	.01
MIN	---	.47	.93	.81	.43	.30	.11	.02	.02	.01	0	0
AC-F'T	---	90	392	80	38	59	16	3.3	1.7	.6	.4	.5

11119745 MISSION CREEK AT ROCKY NOOK PARK, AT SANTA BARBARA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1983 to April 1984.

WATER TEMPERATURES: December 1983 to April 1984.

SEDIMENT RECORDS: December 1983 to April 1984.

PERIOD OF DAILY RECORDS.--

WATER TEMPERATURES: December 1983 to April 1984.

SEDIMENT RECORDS: December 1983 to April 1984.

REMARKS.--Sediment samples after Jan. 13 were collected through the complete water depth; the listed results are therefore total sediment discharge values. Sediment discharge values were estimated for those days that have no daily concentration values. Zero bedload discharge observed at flows less than 40 ft³/s.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, unknown, Dec. 25; minimum daily mean, 0 mg/L Dec. 19,

Jan. 5, 15, 16.

SEDIMENT DISCHARGE: Maximum daily, 375 tons (estimated) Dec. 25; minimum daily, 0 ton many days.

 TEMPERATURE (DEG. C) OF WATER, DECEMBER 1983 TO APRIL 1984
 ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			---	14.0	11.5	14.0	14.5					
2			---	13.0	12.5	15.0	13.5					
3			12.5	12.0	14.0	15.5	15.0					
4			---	11.5	13.5	15.5	13.0					
5			10.0	12.0	14.0	14.0	13.5					
6			9.0	11.0	14.0	14.0	15.0					
7			9.0	---	12.0	15.0	16.0					
8			10.0	11.5	13.0	15.0	15.5					
9			11.0	11.0	14.0	13.0	17.5					
10			11.5	12.0	10.5	12.5	18.0					
11			12.0	15.0	13.0	17.0	17.0					
12			13.0	12.0	11.5	16.0	17.0					
13			10.5	14.0	13.5	16.0	---					
14			14.0	13.5	14.5	15.0	20.0					
15			13.0	13.5	13.5	16.0	16.0					
16			12.0	14.5	13.0	17.0	18.5					
17			14.0	14.0	10.0	12.5	18.0					
18			12.5	11.5	12.0	16.0	17.0					
19			11.0	12.5	12.5	16.0	13.0					
20			10.0	14.0	13.0	17.0	15.5					
21			8.5	14.0	13.5	18.5	---					
22			12.0	13.5	12.5	16.5	---					
23			10.5	12.0	11.5	15.0	20.0					
24			12.5	10.0	13.0	---	18.5					
25			---	13.5	9.0	---	15.5					
26			14.0	10.5	---	17.0	15.5					
27			13.0	12.5	12.5	17.0	14.5					
28			11.5	12.0	13.0	15.5	---					
29			11.0	13.0	14.0	14.0	---					
30			11.0	13.0	---	17.0	16.5					
31			14.5	13.5	---	17.0	---					
MONTH			11.5	12.5	12.5	15.5	16.0					

11119745 MISSION CREEK AT ROCKY NOOK PARK, AT SANTA BARBARA, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), DECEMBER 1983 TO APRIL 1984

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1							.93	2	.01
2							.93	1	0
3							12	382	34
4							2.6	30	.21
5							1.6	2	.01
6							1.4	2	.01
7							1.3	4	.01
8							1.2	5	.02
9							7.6	287	20
10							2.1	19	.11
11							1.8	6	.03
12							1.5	3	.01
13							1.3	3	.01
14							1.1	3	.01
15							1.1	2	.01
16							1.0	1	0
17							1.0	2	.01
18							1.0	1	0
19							.93	---	---
20							.93	3	.01
21							1.0	6	.02
22							.93	3	.01
23							1.0	2	.01
24							3.5	207	6.4
25							105	---	375
26							19	---	4.0
27							8.6	15	.35
28							5.3	6	.09
29							4.0	4	.04
30							3.2	5	.04
31							2.8	3	.02
TOTAL							197.65	---	440.45

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.5	2	0	.93	14	.04	.43	4	0
2	2.3	3	0	1.0	7	.02	.47	4	.01
3	2.1	2	.01	.93	5	.01	.47	16	.02
4	1.9	1	.01	.87	5	.01	.47	7	.01
5	1.7	---	---	.87	4	.01	.47	6	.01
6	1.7	1	0	.87	5	.01	.47	15	.02
7	1.6	2	.01	.81	22	.05	.43	17	.02
8	1.6	2	.01	.81	32	.07	.43	19	.02
9	1.4	2	.01	.81	29	.06	.43	11	.01
10	1.4	6	.02	.75	28	.06	.40	12	.01
11	1.4	3	.01	.70	26	.05	.36	18	.02
12	1.3	6	.02	.70	16	.03	.36	5	0
13	1.3	2	.01	.70	10	.02	.40	20	.02
14	1.2	1	0	.70	30	.06	1.8	46	.50
15	1.2	---	---	.70	30	.06	.65	10	.02
16	1.2	---	---	.65	12	.02	.51	3	0
17	1.5	6	.03	.55	20	.03	.51	6	.01
18	1.1	9	.03	.60	12	.02	.47	11	.01
19	1.1	4	.01	.60	7	.01	.47	5	.01
20	1.0	16	.04	.55	20	.03	.43	1	0
21	1.0	21	.06	.55	30	.04	.43	10	.01
22	1.0	6	.02	.55	15	.02	.33	26	.02
23	1.0	1	0	.55	14	.02	.33	22	.02
24	1.0	3	.01	.47	5	.01	.30	12	.01
25	.93	13	.03	.47	2	0	.30	4	---
26	.87	11	.03	.43	3	0	.33	3	0
27	.81	18	.04	.43	5	.01	.36	12	0
28	.87	14	.03	.43	6	.01	7.4	37	1.1
29	.81	5	.01	.43	7	.01	7.8	34	.72
30	.81	3	.01	---	---	---	1.4	18	.07
31	.81	7	.02	---	---	---	.43	6	.01
TOTAL	40.41	---	.48	19.41	---	.79	29.84	---	2.68

MISSION CREEK BASIN

11119745 MISSION CREEK AT ROCKY NOOK PARK, AT SANTA BARBARA, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), DECEMBER 1983 TO APRIL 1984

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	.30	5	0						
2	.28	4	0						
3	.28	2	0						
4	.28	2	0						
5	1.4	148	1.2						
6	.54	18	.04						
7	.30	3	0						
8	.30	4	0						
9	.28	3	0						
10	.23	1	0						
11	.23	2	0						
12	.21	5	0						
13	.19	7	0						
14	.17	7	0						
15	.25	10	.01						
16	.19	6	---						
17	.15	4	0						
18	.15	3	0						
19	.60	13	.07						
20	.21	12	.01						
21	.14	10	0						
22	.12	8	0						
23	.12	5	0						
24	.47	3	---						
25	.17	3	0						
26	.21	2	0						
27	.14	5	0						
28	.12	8	0						
29	.11	6	0						
30	.14	2	0						
31	---	---	---						
TOTAL	8.28	---	1.33						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR DECEMBER 1983 TO APRIL 1984

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
DECEMBER ...	197.65	440.45	19	459
JANUARY 1984	40.41	0.48	0	0
FEBRUARY ...	19.41	0.79	0	1
MARCH	29.84	2.69	0	3
APRIL	8.28	1.33	0	1
TOTAL	295.16	445.74	19	464

11119745 MISSION CREEK AT ROCKY NOOK PART, AT SANTA BARBARA, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
DEC								
03...	1130	55	12.5	1600	238	45	58	72
03...	1300	15	12.5	1330	54	53	69	83
26...	1555	18	14.0	34	1.7	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
DEC							
03...	83	90	94	96	98	99	100
03...	93	96	98	98	99	100	--
26...	--	--	85	--	--	--	--

MISSION CREEK BASIN

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, Hydrologic Unit 18060013, on left bank just south of end of Los Olivos Street in Santa Barbara.

DRAINAGE AREA.--8.38 mi².

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

GAGE.--Water-stage recorder. Concrete-lined channel. Altitude of gage is 105 ft, from topographic map.

REMARKS.--Records fair. No regulation or diversion above station. Water at times released to creek for ground-water recharge from Gibraltar tunnel, several miles upstream.

AVERAGE DISCHARGE.--14 years, 3.44 ft³/s, 2,490 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,580 ft³/s Jan. 18, 1973, gage height, 4.97 ft, from rating curve extended above 41 ft³/s on basis of computation of flow in concrete-lined channel; maximum gage height, 5.45 ft Feb. 16, 1980; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 681 ft³/s, Dec. 25, gage height 3.71 ft, from rating curve extended above 110 ft³/s on basis of slope-area measurement at gage height 5.20 ft, no other peak above base of 200 ft³/s; no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	7.0	.15	2.0	.23	0	.08	0				0
2	3.5	.33	.10	1.7	.48	0	0	0				0
3	1.3	.10	17	1.4	.10	0	0	0				0
4	.80	.03	2.7	1.3	.02	0	0	0				0
5	.35	.02	1.1	1.2	0	0	.29	0				0
6	.20	.02	.68	.98	0	0	.38	0				0
7	.10	.01	.49	.87	0	0	.08	0				0
8	.04	.64	.36	.73	0	0	0	0				0
9	.03	.03	15	.65	0	0	0	0				0
10	.02	.01	2.7	.61	0	0	0	0				0
11	.02	7.8	2.4	.48	0	0	0	0				2.1
12	.01	2.2	1.1	.44	0	0	0	0				0
13	.01	.60	.74	.40	0	.83	0	0				0
14	.01	.24	.54	.35	0	4.0	0	0				0
15	.01	.14	.44	.27	0	.10	0	0				0
16	.01	.10	.35	.49	0	0	0	0				0
17	.01	.08	.29	1.2	0	0	0	0				0
18	.01	.06	.21	.28	0	0	0	0				0
19	.01	.04	.16	.26	0	0	0	0				0
20	.07	.05	.14	.23	0	0	0	0				0
21	1.3	1.6	.12	.16	0	0	0	0				0
22	.26	1.7	.10	.12	0	0	0	0				0
23	.15	1.4	.08	.08	0	0	0	0				0
24	.06	9.3	8.7	.04	0	0	0	0				0
25	.04	5.7	141	.02	0	0	0	0				0
26	.01	3.7	25	.01	0	0	0	0				0
27	.80	3.3	11	0	0	0	0	0				0
28	.05	2.8	6.7	0	0	5.6	0	0				0
29	.02	.43	4.5	0	0	9.1	0	0				0
30	.01	.22	3.3	0	---	.83	0	0				0
31	.01	---	2.7	0	---	.21	---	.09				---
TOTAL	62.22	49.65	249.85	16.27	0.83	20.67	0.83	0.09	0	0	0	2.1
MEAN	2.01	1.66	8.06	.52	.029	.67	.028	.003	0	0	0	.070
MAX	53	9.3	141	2.0	.48	9.1	.38	.09	0	0	0	2.1
MIN	.01	.01	.08	0	0	0	0	0	0	0	0	0
AC-FT	123	98	496	32	1.6	41	1.6	.2	0	0	0	4.2
CAL YR 1983	TOTAL	3500.29	MEAN	9.59	MAX	316	MIN	0	AC-FT	6940		
WTR YR 1984	TOTAL	402.51	MEAN	1.10	MAX	141	MIN	0	AC-FT	798		

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, Hydrologic Unit 18060013, on right bank 0.4 mi south of State Street on Hope Avenue in Santa Barbara.

DRAINAGE AREA.--6.65 mi².

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

REVISED RECORDS.--WDR CA-76-1: 1974, 1975 (M).

GAGE.--Water-stage recorder. Concrete-lined channel with a low-water control. Altitude of gage is 160 ft, from topographic map.

REMARKS.--Records fair except those below 1.0 ft³/s, which are 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.--14 years, 2.75 ft³/s, 1,990 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,850 ft³/s Mar. 4, 1978, Feb. 16, 1980, from rating curve extended above 50 ft³/s on basis of computation of flow in trapezoidal section; maximum gage height, 5.67 ft Mar. 4, 1978; no flow many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s and maximum (*), from rating curve extended as explained above:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	0245	1,390	5.50	Dec. 25	0300	*1,510	5.71
Dec. 3	1100	764	4.29	Mar. 14	0015	306	3.18
Dec. 9	1730	393	3.41				

Minimum daily discharge, 0.01 ft³/s for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	19	.47	2.7	.99	.01	.08	.04	.06	.01	.02	.01
2	2.4	.35	.42	2.2	.51	.01	.01	.03	.06	.01	.02	.01
3	.64	.19	.40	2.1	.41	.01	.01	.13	.04	.01	.03	.01
4	.40	.18	1.4	1.9	.22	.01	.01	.12	.05	.01	.03	.01
5	.30	.18	1.8	1.7	.21	.01	.01	.08	.05	.01	.03	.01
6	.22	.23	1.8	1.5	.20	.01	.06	.08	.10	.01	.40	.01
7	.16	.24	1.0	1.3	.19	.01	.01	.07	.04	.01	.03	.01
8	.08	.24	.97	1.3	.20	.01	.01	.05	.06	.01	.03	.02
9	.08	.24	.30	1.1	.18	.01	.01	.04	.03	.01	.03	.02
10	.07	.25	1.5	1.1	.17	.01	.01	.03	.04	.02	.03	.02
11	.06	9.4	3.0	1.1	.15	.01	.04	.04	.05	.02	.03	.02
12	.06	1.6	1.1	.84	.18	.72	.03	.04	.04	.02	.02	.02
13	.13	.37	.95	.85	.14	9.5	.23	.04	.02	.02	.02	.02
14	.21	.33	.75	.83	1.5	7.7	.06	.05	.02	.02	.03	.01
15	.35	.31	.77	.80	2.5	.01	.01	.10	.02	.01	.38	.01
16	.42	.34	.74	2.0	1.0	.21	.01	.08	.01	.02	.03	.01
17	.42	.33	.75	2.4	.08	.01	.02	.11	.01	.02	.02	.01
18	.36	.52	.72	1.6	.11	.01	.36	.09	.06	.02	.02	.02
19	.30	.34	.73	.67	.13	.01	.03	.09	.04	.02	.02	.01
20	.31	.54	.79	.66	.14	.01	.01	.08	.02	.02	.02	.02
21	.47	.44	.84	.62	.15	.01	.04	.08	.02	.02	.02	.09
22	.33	.46	.84	.51	.08	.01	.02	.08	.02	.02	.02	.15
23	.31	.39	.80	.44	.01	.01	.03	.10	.01	.02	.01	.11
24	1.0	15	20	.44	.01	.01	.04	.12	.01	.03	.01	.01
25	.10	.97	330	.45	.01	.01	.02	.12	.01	.02	.01	.01
26	.11	.46	24	.34	.01	1.2	.03	.10	.01	.03	.01	.01
27	.09	.42	8.6	.32	.01	2.0	.05	.09	.01	.02	.03	.01
28	.09	.42	6.0	.40	.01	1.1	.02	.05	.01	.03	.01	.01
29	.10	.44	5.0	.42	.01	.01	.03	.05	.01	.02	.01	.01
30	.18	.41	3.9	.41	---	.01	.04	.04	.01	.02	.01	.01
31	.51	---	3.2	.33	---	.01	---	.04	---	.03	.01	---
TOTAL	126.26	54.59	492.84	33.33	9.51	22.67	1.34	2.26	0.94	0.56	1.39	0.70
MEAN	4.07	1.82	15.9	1.08	.33	.73	.045	.073	.031	.018	.045	.023
MAX	116	19	330	2.7	2.5	9.5	.36	.13	.10	.03	.40	.15
MIN	.06	.18	.42	.32	.01	.01	.01	.03	.01	.01	.01	.01
AC-FT	250	108	978	66	19	45	2.7	4.5	1.9	1.1	2.8	1.4
CAL YR 1983	TOTAL	3133.52	MEAN	8.58	MAX	330	MIN	.01	AC-FT	6220		
WTR YR 1984	TOTAL	746.39	MEAN	2.04	MAX	330	MIN	.01	AC-FT	1480		

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, Hydrologic Unit 18060013, on right bank at University Drive, 0.2 mi east of Patterson Avenue, and 1.5 mi northeast of Goleta.

DRAINAGE AREA.--6.35 mi².

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 60 ft, from topographic map.

REMARKS.--Records fair. No regulation above station. Some pumping for irrigation.

AVERAGE DISCHARGE.--14 years, 2.03 ft³/s, 1,470 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,650 ft³/s Jan. 16, 1978, gage height, 5.87 ft, from rating curve extended above 290 ft³/s on basis of slope-area measurement of maximum flow; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 75 ft³/s and maximum (*), from rating curve extended above 290 ft³/s on basis of slope-area measurement at gage height 3.69 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	0400	264	2.61
Dec. 3	1145	92	2.13
Dec. 25	1015	*648	3.46

Minimum, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	1.8	.69	1.6	.69	.25	.03					0
2	1.2	.30	.65	1.4	.69	.25	.06					0
3	.35	.33	16	1.1	.69	.25	.08					0
4	.25	.30	2.9	1.1	.69	.27	.16					0
5	.30	.30	1.3	1.1	.69	.29	.16					0
6	.37	.31	1.0	1.1	.66	.25	.24					0
7	.40	.32	.93	1.1	.59	.25	.03					0
8	.36	.27	.84	1.1	.88	.27	0					0
9	.35	.18	11	1.1	.52	.30	.01					0
10	.36	.24	2.5	1.1	.51	.29	0					0
11	.31	1.9	1.7	1.1	.51	.20	0					.07
12	.31	.83	1.5	1.0	.51	.21	0					0
13	.32	.48	1.1	.93	.51	.95	0					0
14	.34	.43	.93	.93	.45	2.3	0					0
15	.41	.43	.93	.93	.43	.36	0					0
16	.36	.44	.93	.93	.43	.33	0					0
17	.29	.40	.83	.93	.45	.36	0					0
18	.28	.34	.71	.93	.55	.35	0					0
19	.29	.31	.64	.93	.63	.35	0					0
20	.31	.33	.59	.93	.55	.31	0					0
21	.30	.33	.59	.88	.45	.20	0					0
22	.31	.41	.59	.80	.43	.18	0					0
23	.28	.42	.59	.80	.43	.10	0					0
24	.27	9.3	3.7	.80	.39	.15	0					0
25	.20	5.6	175	.80	.30	.24	0					0
26	.15	1.4	11	.80	.30	.25	0					0
27	.15	1.0	4.6	.80	.30	.16	0					0
28	.15	.93	3.2	.80	.30	.06	0					0
29	.15	.93	2.7	.73	.28	.11	0					0
30	.15	.82	2.1	.69	---	.02	0					0
31	.15	---	1.8	.69	---	.02	---					---
TOTAL	63.42	31.38	253.54	29.93	14.81	9.88	0.77	0	0	0	0	0.07
MEAN	2.05	1.05	8.18	.97	.51	.32	.026	0	0	0	0	.002
MAX	54	9.3	175	1.6	.88	2.3	.24	0	0	0	0	.07
MIN	.15	.18	.59	.69	.28	.02	0	0	0	0	0	0
AC-FT	126	62	503	59	29	20	1.5	0	0	0	0	.1
CAL YR 1983	TOTAL	2789.19	MEAN	7.64	MAX	271	MIN	0	AC-FT	5530		
WTR YR 1984	TOTAL	403.80	MEAN	1.10	MAX	175	MIN	0	AC-FT	801		

11120000 ATASCADERO CREEK NEAR GOLETA, CA

LOCATION.--Lat 34°25'29", long 119°48'39", in La Goleta Grant, Santa Barbara County, Hydrologic Unit 18060013, on downstream side of center pier of county road bridge 100 ft downstream from Maria Ygnacio Creek, 1.3 mi upstream from mouth, and 1.3 mi southeast of Goleta.

DRAINAGE AREA.--18.9 mi².

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 8.59 ft Santa Barbara County benchmark. Prior to Dec. 14, 1967, at site 275 ft downstream, datum 4.00 ft higher. Dec. 14, 1967, to Sept. 30, 1976, at datum 4.00 ft higher and Oct. 1, 1976, to Sept. 30, 1978, at datum 2.00 ft higher, both at present site.

REMARKS.--Records fair except those below 1.0 ft³/s, which are poor. No regulation above station. Small diversions for irrigation above station. Some low flow results from return irrigation waste water.

AVERAGE DISCHARGE.--43 years, 4.95 ft³/s, 3,590 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,380 ft³/s Jan. 18, 1973, gage height, 13.1 ft datum then in use, from rating curve extended above 2,300 ft³/s; maximum gage height, 13.3 ft, from floodmark, Dec. 3, 1974, datum then in use; no flow some days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 225 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	0230	859	5.56
Dec. 3	1200	399	4.29
Dec. 25	0300	*1,470	6.70

Minimum, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	234	31	.92	4.6	.80	.35	.04	.04	.02	.01	0	0
2	6.5	2.9	.76	3.6	1.2	.21	.06	.03	.05	0	0	.01
3	3.2	.50	69	3.3	.94	.19	.07	.05	.12	.01	0	0
4	1.4	.25	9.2	3.2	.86	.21	.09	.03	.18	0	0	0
5	.90	.21	3.6	2.9	.72	.14	.11	.01	.12	0	0	.26
6	.68	.20	2.6	2.8	.62	.27	.18	.01	.06	0	0	.71
7	.47	.30	2.1	2.7	.63	.24	.12	.01	.01	0	0	.78
8	.29	.30	1.7	2.5	.63	.09	.07	.01	0	0	0	.41
9	.26	.41	59	2.4	.63	.13	.59	.01	0	0	.37	.08
10	.18	.12	11	2.2	.57	.13	.12	.01	0	0	.10	.03
11	.18	21	9.1	2.1	.52	.11	.10	.02	0	.04	.02	3.3
12	.14	6.1	4.8	2.0	.52	.10	.16	.01	.06	.08	0	.39
13	.12	2.3	3.0	1.9	.51	1.9	.05	.01	.10	.01	0	.08
14	.11	.85	2.4	1.7	.48	20	.23	.03	.02	.01	0	.02
15	.12	.57	2.1	1.6	.42	.76	.26	.02	.02	0	0	.01
16	.13	.40	1.8	2.1	.42	.58	.18	.02	.02	0	.04	.01
17	.12	.32	1.6	1.9	.41	.40	.08	.17	.39	0	.03	0
18	.14	.26	1.5	1.6	.39	.32	.04	.22	.54	0	.01	0
19	.14	.20	1.5	1.4	.39	.34	.06	.13	.43	0	0	0
20	.14	.50	1.3	1.4	.36	.23	.01	.09	.47	0	0	0
21	.14	.16	1.1	1.7	.31	.25	.04	.07	.15	0	0	0
22	.12	.18	1.0	1.5	.24	.21	.02	.32	.03	0	0	0
23	.12	.17	.97	1.2	.21	.16	.03	.08	.01	0	0	0
24	.12	35	37	1.2	.25	.13	.04	.03	.01	0	0	.01
25	.11	18	404	1.1	.22	.15	.03	.02	.04	0	0	.01
26	.08	3.3	40	1.0	.27	.16	.01	.03	.19	0	0	0
27	.08	1.9	17	.94	.22	.11	.01	.12	.12	0	0	0
28	.09	1.4	11	.94	.13	.10	.03	.19	.02	0	0	0
29	.09	1.1	8.0	.94	.12	.12	.06	.18	.01	0	0	0
30	.09	.95	6.6	.93	---	.08	.05	.08	.02	0	0	0
31	.09	---	5.5	.84	---	.05	---	.03	---	0	0	---
TOTAL	250.35	130.85	721.15	60.19	13.99	28.22	2.94	2.08	3.21	0.16	0.57	6.11
MEAN	8.08	4.36	23.3	1.94	.48	.91	.098	.067	.11	.005	.018	.20
MAX	234	35	404	4.6	1.2	20	.59	.32	.54	.08	.37	3.3
MIN	.08	.12	.76	.84	.12	.05	.01	.01	0	0	0	0
AC-FT	497	260	1430	119	28	56	5.8	4.1	6.4	.3	1.1	12
CAL YR 1983	TOTAL	7649.77	MEAN	21.0	MAX	620	MIN	.02	AC-FT	15170		
WTR YR 1984	TOTAL	1219.82	MEAN	3.33	MAX	404	MIN	0	AC-FT	2420		

11120500 SAN JOSE CREEK NEAR GOLETA, CA

LOCATION.--Lat 34°27'33", long 119°48'29", in La Goleta Grant, Santa Barbara County, Hydrologic Unit 18060013, on right bank, 1.1 mi downstream from unnamed tributary, and 1.7 mi northeast of Goleta.

DRAINAGE AREA.--5.51 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1941 to current year.

GAGE.--Water-stage recorder and concrete low-water control. Datum of gage is 95.61 ft Santa Barbara County Road Department datum. Prior to Dec. 24, 1955, at datum 5.50 ft higher. Dec. 24, 1955, to Jan. 10, 1960, at datum 1.5 ft higher. Prior to Oct. 1, 1971, at site 75 ft downstream at same datum.

REMARKS.--Records fair except those below 1.0 ft³/s, which are poor. No regulation above station. Many small diversions for irrigation above station.

AVERAGE DISCHARGE.--43 years, 2.15 ft³/s, 1,560 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,000 ft³/s Jan. 25, 1969, gage height, 10.10 ft, from rating curve extended above 400 ft³/s on basis of slope-area measurement at gage height 9.32 ft; maximum gage height, 12.74 ft, present datum, Jan. 21, 1943; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft³/s and maximum (*), from rating curve extended above 270 ft³/s on basis of slope-area measurement at gage height 7.50 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	0015	*698	6.04
Dec. 25	1030	383	5.44

Minimum daily discharge, 0.05 ft³/s Aug. 31, Sept. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	5.0	1.4	3.8	.97	.67	1.1	.45	.19	.13	.14	.05
2	13	1.9	1.4	3.2	1.0	.69	1.1	.49	.19	.14	.12	.05
3	6.7	1.3	20	2.9	1.1	.63	.92	.34	.22	.15	.11	.11
4	5.3	1.4	9.7	2.7	1.1	.73	.56	.29	.41	.12	.14	.09
5	4.9	1.9	6.3	2.7	1.1	.85	.55	.32	.08	.16	.14	.08
6	6.1	2.0	4.4	2.7	1.0	.76	.74	.28	.11	.13	.33	.08
7	4.3	1.7	3.1	2.4	.97	.73	.39	.34	.11	.11	.14	.07
8	3.1	1.7	2.1	2.2	.97	.73	.45	.23	.11	.26	.14	.08
9	4.2	1.7	8.2	2.1	.97	.71	.48	.15	.11	.33	.14	.08
10	3.3	1.7	5.2	2.1	.85	.63	.44	.14	.13	.10	.14	.19
11	2.5	7.0	4.0	2.1	.85	.63	.40	.14	.14	.07	.14	.28
12	2.7	2.3	4.0	1.8	.85	.63	.29	.17	.14	.08	.24	.30
13	2.8	1.9	2.9	1.6	.85	.65	.44	.26	.11	.10	.42	.28
14	2.9	1.9	2.5	1.5	.85	2.1	.25	.53	.11	.11	.16	.17
15	3.1	2.0	2.4	1.5	.85	1.1	.29	.57	.11	.11	.09	.14
16	2.9	1.9	2.3	1.3	.85	.77	.55	.48	.14	.36	.28	.13
17	2.7	1.6	2.3	1.2	.76	.73	.49	.30	.19	.14	.14	.24
18	2.8	1.4	2.1	1.2	.74	.73	.26	.30	.24	.11	.31	.22
19	2.7	1.5	1.8	1.2	.85	.73	.35	.29	.11	.12	.22	.15
20	2.8	1.5	1.7	1.2	.85	.68	.40	.50	.11	.21	.37	.11
21	2.9	1.6	1.7	1.2	.85	.53	.30	.34	.11	.28	.20	.18
22	2.7	1.9	1.7	1.2	.85	.53	.30	.27	.11	.52	.11	.24
23	2.4	3.5	1.7	1.2	.85	.68	.23	.19	.13	.74	.25	.40
24	2.2	12	4.3	1.2	.78	.73	.24	.19	.24	.61	.31	.41
25	2.1	3.0	140	1.2	.73	.84	.14	.18	.34	.14	.22	.11
26	2.1	2.3	22	1.2	.69	.97	.15	.14	.24	.14	.44	.11
27	2.0	2.0	11	1.1	.73	.97	.26	.23	.11	.12	.63	.11
28	2.0	1.9	7.5	1.1	.69	.91	.24	.41	.11	.14	.23	.11
29	1.9	1.7	5.4	1.0	.63	.73	.27	.44	.11	.14	.19	.12
30	1.7	1.6	4.7	.97	---	.73	.56	.37	.11	.19	.07	.11
31	1.7	---	4.1	.97	---	.89	---	.19	---	.14	.05	---
TOTAL	198.5	74.8	291.9	53.74	25.13	24.39	13.14	9.52	4.67	6.20	6.61	4.80
MEAN	6.40	2.49	9.42	1.73	.87	.79	.44	.31	.16	.20	.21	.16
MAX	96	12	140	3.8	1.1	2.1	1.1	.57	.41	.74	.63	.41
MIN	1.7	1.3	1.4	.97	.63	.53	.14	.14	.08	.07	.05	.05
AC-FT	394	148	579	107	50	48	26	19	9.3	12	13	9.5
CAL YR 1983	TOTAL	3729.93	MEAN	10.2	MAX	290	MIN	.22	AC-FT	7400		
WTR YR 1984	TOTAL	713.40	MEAN	1.95	MAX	140	MIN	.05	AC-FT	1420		

11120500 SAN JOSE CREEK NEAR GOLETA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
NOV												
03...	1000	1.3	719	6.8	18.0	--	--	--	--	--	--	--
DEC												
08...	1345	2.1	990	8.3	12.0	--	--	--	--	--	--	--
JAN												
05...	1130	2.6	717	8.2	13.5	370	180	97	31	47	22	1
FEB												
06...	1120	1.0	980	8.2	15.0	--	--	--	--	--	--	--
MAR												
13...	1015	.66	1130	8.0	17.0	--	--	--	--	--	--	--
APR												
11...	1345	.44	1210	8.3	19.0	--	--	--	--	--	--	--
MAY												
16...	1530	.53	1200	8.3	22.0	--	--	--	--	--	--	--
JUN												
13...	1125	.12	1890	8.0	18.0	--	--	--	--	--	--	--
JUL												
27...	1000	.10	2060	7.8	18.0	--	--	--	--	--	--	--
AUG												
30...	0900	.08	1750	7.9	20.5	--	--	--	--	--	--	--
SEP												
19...	1300	.06	1860	8.0	24.0	--	--	--	--	--	--	--

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
NOV											
03...	--	--	--	--	--	408	--	--	--	--	--
DEC											
08...	--	--	--	--	--	552	--	--	--	--	--
JAN											
05...	1.2	195	200	34	21	--	550	.75	.03	60	18
FEB											
06...	--	--	--	--	--	741	--	--	--	--	--
MAR											
13...	--	--	--	--	--	871	--	--	--	--	--
APR											
11...	--	--	--	--	--	838	--	--	--	--	--
MAY											
16...	--	--	--	--	--	907	--	--	--	--	--
JUN											
13...	--	--	--	--	--	1340	--	--	--	--	--
JUL											
27...	--	--	--	--	--	1590	--	--	--	--	--
AUG											
30...	--	--	--	--	--	1460	--	--	--	--	--
SEP											
19...	--	--	--	--	--	1460	--	--	--	--	--

11120510 SAN JOSE CREEK AT GOLETA, CA

LOCATION.--Lat 34°25'49", long 119°49'16", in La Goleta Grant, Santa Barbara County, Hydrologic Unit 18060013, on right bank south of Hollister Avenue on Kellogg Avenue, 0.5 mi southeast of Goleta.

DRAINAGE AREA.--9.42 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR CA-73-1: 1973(M)

GAGE.--Water-stage recorder and concrete channel. Altitude of gage is 10 ft, from topographic map.

REMARKS.--Records fair. No regulation above station. Diversions for irrigation and domestic use above station.

AVERAGE DISCHARGE.--14 years, 3.54 ft³/s, 2,560 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,330 ft³/s Mar. 4, 1978, gage height, 5.65 ft, from rating curve extended above 400 ft³/s on basis of slope-conveyance computation of flow in concrete channel at gage height 8.00 ft; no flow for long periods in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 250 ft³/s and maximum (*), from rating curve extended as explained above:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	0030	*1,610	4.68	Dec. 25	0245	816	3.54
Dec. 3	1100	390	2.73	Mar. 14	0215	453	2.87

Minimum, no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166	17	1.7	4.1	2.2	.63	2.2	.38	.26	0	0	0
2	10	2.0	1.4	4.0	2.2	.72	1.8	.76	.66	0	0	0
3	4.1	1.5	.68	3.5	2.2	.67	1.8	.80	.44	0	0	0
4	3.3	1.5	8.0	3.3	2.2	.74	1.7	.75	.23	0	0	0
5	2.7	1.5	4.6	3.5	2.1	.87	1.7	.67	.50	.02	0	0
6	2.3	1.2	3.2	3.4	1.7	.63	2.0	.63	.42	.03	0	0
7	1.7	1.0	2.6	3.3	1.6	.64	1.9	.67	.44	0	0	0
8	1.5	1.3	2.3	2.9	1.5	.67	1.4	.75	.21	0	0	0
9	1.3	1.2	.49	2.1	1.6	.74	1.7	.57	.11	.07	0	0
10	1.1	1.1	6.8	1.7	1.5	.76	1.8	.48	.14	.05	0	0
11	.90	12	5.9	2.0	1.3	.65	1.0	.59	.03	0	0	.55
12	1.0	4.7	5.1	3.4	1.3	.75	1.2	.58	.06	.28	0	.01
13	1.5	2.6	3.9	2.5	1.3	.78	1.6	.60	.05	.01	0	.01
14	1.6	2.1	3.0	2.5	1.3	.22	1.3	.73	.01	0	0	0
15	1.7	1.8	2.6	2.5	1.2	1.3	1.1	.39	.02	0	0	0
16	1.7	1.6	2.3	2.4	1.2	.93	1.8	.73	.09	0	0	0
17	1.5	1.5	2.0	2.4	1.1	.84	1.7	.51	.17	0	0	0
18	1.3	1.5	1.6	2.4	1.1	.80	1.3	.66	.24	0	0	0
19	1.2	1.5	1.4	2.4	.95	1.0	1.7	.72	.12	0	0	0
20	1.2	1.4	1.2	2.4	1.0	1.5	1.6	.72	.04	0	0	0
21	1.2	1.4	1.0	2.3	1.1	1.3	1.2	.72	0	0	0	0
22	1.0	1.1	.87	2.2	1.1	1.3	1.1	.72	0	.10	.38	0
23	1.3	.90	.69	2.2	.97	1.4	.96	.74	0	.35	.07	0
24	1.1	57	33	2.2	.83	1.5	.88	.72	.05	.45	0	0
25	.84	19	241	2.2	.83	1.8	.88	.81	.20	.02	.02	0
26	.64	3.2	24	2.2	.84	1.9	.84	.82	.14	0	.07	0
27	.80	2.3	11	2.2	.91	1.8	.84	.81	.13	0	.28	0
28	1.0	2.7	7.4	2.2	.82	1.6	.84	.40	.20	0	.07	0
29	1.3	2.4	5.8	2.2	.68	1.1	.78	.33	.12	0	0	0
30	2.2	2.1	5.0	2.2	---	1.8	.90	.22	.04	0	.19	0
31	1.4	---	4.5	2.2	---	1.7	---	.54	---	0	0	---
TOTAL	220.38	152.10	510.86	81.0	38.63	54.82	41.52	19.52	5.12	1.38	1.08	0.57
MEAN	7.11	5.07	16.5	2.61	1.33	1.77	1.38	.63	.17	.045	.035	.019
MAX	166	57	241	4.1	2.2	22	2.2	.82	.66	.45	.38	.55
MIN	.64	.90	.69	1.7	.68	.63	.78	.22	0	0	0	0
AC-FT	437	302	1010	161	77	109	82	39	10	2.7	2.1	1.1
CAL YR 1983	TOTAL	4931.72	MEAN	13.5	MAX	386	MIN	.32	AC-FT	9780		
WTR YR 1984	TOTAL	1126.98	MEAN	3.08	MAX	241	MIN	0	AC-FT	2240		

11120510 SAN JOSE CREEK AT GOLETA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1982 to current year.

WATER TEMPERATURES: Water years 1982 to current year (storm season only).

SEDIMENT RECORDS: Water years 1982 to current year (storm season only).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: January 1982 to current year (storm season only).

SEDIMENT RECORDS: December 1981 to current year (storm season only).

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 9,050 mg/L Mar. 1, 1983; minimum daily mean, 1 mg/L

Mar. 6, 9, 1984.

SEDIMENT DISCHARGE: Maximum daily, 15,700 tons Jan. 27, 1983; minimum daily, 0 ton many days during each

year.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 8,800 mg/L Dec. 25; minimum daily mean, 1 mg/L Mar. 6, 9.

SEDIMENT DISCHARGE: Maximum daily, 10,300 tons Dec. 25; minimum daily, 0 ton Mar. 6, 9.

TEMPERATURE (DEG. C) OF WATER, DECEMBER 1983 TO APRIL 1984

ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			14.5	12.0	13.0	14.5	---					
2			14.0	13.5	16.0	16.0	14.5					
3			13.0	11.0	12.5	12.0	13.5					
4			13.5	12.5	---	22.5	16.5					
5			10.0	16.5	13.0	15.5	14.0					
6			12.0	14.0	11.0	14.0	22.0					
7			12.0	13.5	12.0	17.5	22.5					
8			12.0	14.0	13.5	17.0	19.0					
9			12.5	13.0	17.0	17.0	14.5					
10			13.5	13.5	14.0	18.5	15.0					
11			13.5	10.5	14.0	18.0	15.5					
12			11.5	12.5	17.5	19.0	---					
13			13.5	13.5	16.5	19.5	19.5					
14			12.0	10.0	18.0	18.0	19.0					
15			16.5	12.0	14.5	16.5	17.0					
16			12.5	11.5	15.5	22.0	---					
17			14.5	12.5	14.5	18.0	18.5					
18			12.5	12.5	---	18.5	16.5					
19			11.0	14.0	---	23.0	16.0					
20			9.0	9.0	19.5	20.0	16.0					
21			11.0	15.5	14.0	22.5	17.0					
22			14.5	15.0	17.5	16.5	19.5					
23			12.0	14.0	13.5	22.5	---					
24			13.0	13.0	---	16.0	17.5					
25			13.0	13.5	17.0	17.0	16.0					
26			16.0	14.0	16.0	22.0	15.5					
27			15.5	---	13.5	16.5	16.0					
28			14.0	13.0	15.5	19.5	22.0					
29			13.0	14.0	17.5	17.5	16.0					
30			14.0	14.0	---	16.0	16.0					
31			12.5	12.0	---	14.0	---					
MONTH			13.0			18.0						

SAN JOSE CREEK BASIN

11120510 SAN JOSE CREEK AT GOLETA, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), DECEMBER 1983 TO APRIL 1984

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							1.7	10	.05
2							1.4	10	.04
3							68	0	4490
4							8.0	0	10
5							4.6	0	.22
6							3.2	6	.05
7							2.6	8	.06
8							2.3	10	.06
9							49	480	137
10							6.8	0	2.2
11							5.9	61	1.2
12							5.1	26	.36
13							3.9	14	.15
14							3.0	20	.16
15							2.6	21	.15
16							2.3	11	.07
17							2.0	16	.09
18							1.6	10	.04
19							1.4	17	.06
20							1.2	10	.03
21							1.0	9	.02
22							.87	8	.02
23							.69	10	.02
24							33	2850	1040
25							241	8800	10300
26							24	250	18
27							11	120	3.6
28							7.4	58	1.2
29							5.8	45	.70
30							5.0	50	.68
31							4.5	69	.67
TOTAL							510.86	---	16006.90

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	4.1	55	.61	2.2	6	.04	.63	7	.01
2	4.0	46	.50	2.2	5	.03	.72	4	.01
3	3.5	45	.43	2.2	4	.02	.67	4	.01
4	3.3	63	.56	2.2	10	.06	.74	6	.01
5	3.5	90	.85	2.1	11	.06	.87	6	.01
6	3.4	54	.50	1.7	6	.03	.63	1	0
7	3.3	55	.49	1.6	7	.03	.64	4	.01
8	2.9	37	.29	1.5	10	.04	.67	5	.01
9	2.1	23	.13	1.6	6	.03	.74	1	0
10	1.7	20	.09	1.5	5	.02	.76	5	.01
11	2.0	46	.25	1.3	3	.01	.65	15	.03
12	3.4	64	.59	1.3	3	.01	.75	18	.04
13	2.5	38	.26	1.3	3	.01	.78	7	.01
14	2.5	13	.09	1.3	3	.01	22	3070	1200
15	2.5	20	.14	1.2	6	.02	1.3	80	.28
16	2.4	26	.17	1.2	8	.03	.93	30	.08
17	2.4	15	.10	1.1	6	.02	.84	50	.11
18	2.4	18	.12	1.1	6	.02	.80	52	.11
19	2.4	20	.13	.95	7	.02	1.0	33	.09
20	2.4	7	.05	1.0	9	.02	1.5	24	.10
21	2.3	12	.07	1.1	5	.01	1.3	34	.12
22	2.2	19	.11	1.1	9	.03	1.3	54	.19
23	2.2	29	.17	.97	8	.02	1.4	43	.16
24	2.2	30	.18	.83	3	.01	1.5	49	.20
25	2.2	22	.13	.83	1	0	1.8	36	.17
26	2.2	17	.10	.84	11	.02	1.9	44	.23
27	2.2	12	.07	.91	7	.02	1.8	70	.34
28	2.2	35	.21	.82	6	.01	1.6	32	.14
29	2.2	50	.30	.68	12	.02	1.1	38	.11
30	2.2	22	.13	---	---	---	1.8	26	.13
31	2.2	11	.07	---	---	---	1.7	18	.08
TOTAL	81.0	---	7.89	38.63	---	.67	54.82	---	1202.80

11120510 SAN JOSE CREEK AT GOLETA, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), DECEMBER 1983 TO APRIL 1984

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	2.2	34	.20	.38						
2	1.8	35	.17	.76						
3	1.8	30	.15	.80						
4	1.7	125	.57	.75						
5	1.7	90	.41	.67						
6	2.0	139	.78	.63						
7	1.9	85	.44	.67						
8	1.4	70	.26	.75						
9	1.7	50	.23	.57						
10	1.8	28	.14	.48						
11	1.0	25	.07	.59						
12	1.2	37	.12	.58						
13	1.6	55	.24	.60						
14	1.3	75	.26	.73						
15	1.1	83	.25	.39						
16	1.8	80	.39	.73						
17	1.7	95	.44	.51						
18	1.3	175	.83	.66						
19	1.7	186	.98	.72						
20	1.6	82	.35	.72						
21	1.2	42	.14	.72						
22	1.1	32	.10	.72						
23	.96	36	.09	.74						
24	.88	35	.08	.72						
25	.88	27	.06	.81						
26	.84	20	.05	.82						
27	.84	10	.02	.81						
28	.84	15	.03	.40						
29	.78	27	.06	.33						
30	.90	17	.04	.22						
31	---	---	---	.54						
TOTAL	41.52	---	7.95	19.52						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR DECEMBER 1983 TO APRIL 1984

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
DECEMBER ...	510.86	16006.90	2490	18500
JANUARY 1984	81.00	7.89	0	8
FEBRUARY ...	37.95	0.67	0	1
MARCH	54.82	1202.80	125	1330
APRIL	41.52	7.95	0	8
TOTAL	1098.63	17226.21	2615	19847

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
DEC									
03...	1130	269	13.0	34400	25000	42	50	55	67
03...	1145	207	13.0	35500	19800	44	52	61	74
09...	1010	178	12.5	1670	803	20	24	31	40
24...	1615	174	12.5	11500	5400	--	59	69	81
25...	0800	299	13.0	4620	3730	--	26	34	41
26...	1150	22	16.0	194	12	--	--	--	--
MAR									
14...	0920	4.6	17.0	728	9.0	79	92	96	99

SAN JOSE CREEK BASIN

11120510 SAN JOSE CREEK AT GOLETA, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

	SED. SUSP. FALL DIAM. % FINER THAN	SED. SUSP. FALL DIAM. % FINER THAN	SED. SUSP. SIEVE DIAM. % FINER THAN	SED. SUSP. FALL DIAM. % FINER THAN	SED. SUSP. SIEVE DIAM. % FINER THAN	SED. SUSP. FALL DIAM. % FINER THAN	SED. SUSP. SIEVE DIAM. % FINER THAN	SED. SUSP. FALL DIAM. % FINER THAN	SED. SUSP. SIEVE DIAM. % FINER THAN
DATE	.031 MM	.062 MM	.062 MM	.125 MM	.125 MM	.250 MM	.250 MM	.500 MM	.500 MM
DEC									
03...	79	91	--	97	--	99	--	100	--
03...	86	96	--	99	--	100	--	--	--
09...	51	--	71	--	87	--	97	--	100
24...	90	97	--	99	--	99	--	100	--
25...	49	62	--	82	--	97	--	100	--
26...	--	--	73	--	82	--	96	--	100
MAR									
14...	99	--	99	--	100	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

		NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM
DATE	TIME						
MAY							
23...	1045	1	.74	1	21	88	99
23...	1050	1	.74	1	18	79	96
23...	1055	1	.74	1	9	57	89
23...	1100	1	.74	--	5	30	40

	BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN
DATE	2.00 MM	4.00 MM	8.00 MM	16.0 MM	32.0 MM	64.0 MM
MAY						
23...	99	99	100	--	--	--
23...	99	100	--	--	--	--
23...	96	98	99	100	--	--
23...	44	46	49	60	84	100

11120550 GAVIOTA CREEK NEAR GAVIOTA, CA

LOCATION.--Lat 34°29'16", long 120°13'34", in Nuestra Senora Del Refugio Grant, Santa Barbara County, Hydrologic Unit 18060013, on left bank 1.3 mi northwest of Gaviota, and 1.6 mi upstream from mouth.

DRAINAGE AREA.--18.8 mi².

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 100 ft, from topographic map.

REMARKS.--Records fair. No regulation. Small pumping for domestic use.

AVERAGE DISCHARGE.--18 years, 6.77 ft³/s, 4,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,270 ft³/s Jan. 28, 1983, gage height, 9.44 ft, from rating curve extended above 250 ft³/s on basis of slope-conveyance measurement of maximum flow; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 439 ft³/s Dec. 25, gage height 5.40 ft, from rating curve extended as explained above, no other peak above base of 300 ft³/s; minimum daily, 0.11 ft³/s Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	8.2	1.6	4.7	2.0	1.8	1.3	.92	.56	.47	.30	.18
2	2.5	1.9	1.4	4.4	2.0	1.8	1.3	.89	.55	.49	.30	.20
3	1.7	1.3	17	4.1	2.0	1.8	1.3	.83	.57	.48	.31	.21
4	1.4	1.2	5.4	3.9	2.0	1.8	1.4	.81	.55	.45	.31	.17
5	1.2	1.2	3.4	3.7	1.9	1.8	1.5	.78	.57	.46	.31	.13
6	1.2	1.1	2.9	3.5	1.9	1.8	1.5	.74	.58	.47	.30	.12
7	1.3	1.1	2.7	3.3	1.9	1.8	1.3	.72	.57	.47	.30	.12
8	1.4	1.1	2.5	3.2	1.9	1.8	1.3	.71	.56	.47	.30	.13
9	1.3	1.1	16	3.1	1.9	1.8	1.2	.68	.55	.42	.30	.11
10	1.1	1.2	7.1	3.0	1.9	1.8	1.2	.66	.54	.42	.34	.14
11	1.1	6.2	6.7	2.9	1.9	1.8	1.2	.66	.55	.42	.33	.22
12	1.1	2.8	5.0	2.9	1.8	1.8	1.1	.66	.55	.41	.31	.26
13	1.1	1.9	3.8	2.9	1.9	2.5	1.1	.65	.54	.41	.31	.24
14	1.1	1.5	3.4	2.7	1.9	5.2	1.1	.64	.54	.41	.31	.19
15	1.2	1.4	3.2	2.7	1.8	2.3	1.1	.63	.54	.38	.30	.18
16	1.3	1.4	3.1	2.8	2.0	2.0	1.1	.64	.55	.36	.30	.18
17	1.3	1.5	2.9	2.7	1.9	1.9	1.0	.63	.54	.38	.25	.17
18	1.3	1.4	2.7	2.6	1.9	1.7	1.1	.61	.56	.41	.25	.15
19	1.3	1.3	2.7	2.5	1.8	1.7	1.2	.60	.55	.44	.30	.13
20	1.3	1.9	2.6	2.5	1.9	1.7	1.1	.62	.52	.47	.29	.15
21	1.4	2.1	2.5	2.5	1.9	1.7	.96	.62	.54	.44	.29	.20
22	1.3	1.4	2.4	2.4	1.9	1.6	.95	.62	.53	.48	.29	.23
23	1.3	1.3	2.4	2.3	1.9	1.5	.93	.62	.53	.58	.27	.24
24	1.3	4.4	14	2.2	1.8	1.6	.91	.54	.52	.53	.23	.24
25	1.3	3.5	160	2.2	1.8	1.6	.90	.56	.49	.42	.23	.23
26	1.2	1.9	16	2.1	1.8	1.5	.92	.55	.48	.37	.32	.22
27	1.2	1.5	9.3	2.1	1.8	1.4	.93	.56	.47	.35	.31	.20
28	1.2	1.6	6.8	2.1	1.8	1.3	.94	.54	.47	.32	.25	.18
29	1.4	1.6	6.0	2.1	1.8	1.3	.95	.51	.45	.31	.21	.17
30	1.3	1.5	5.3	2.0	---	1.3	.93	.52	.45	.32	.19	.19
31	1.3	---	5.0	2.0	---	1.3	---	.55	---	.30	.18	---
TOTAL	59.4	61.5	325.8	88.1	54.7	56.7	33.72	20.27	15.97	13.11	8.79	5.48
MEAN	1.92	2.05	10.5	2.84	1.89	1.83	1.12	.65	.53	.42	.28	.18
MAX	20	8.2	160	4.7	2.0	5.2	1.5	.92	.58	.58	.34	.26
MIN	1.1	1.1	1.4	2.0	1.8	1.3	.90	.51	.45	.30	.18	.11
AC-FT	118	122	646	175	108	112	67	40	32	26	17	11
CAL YR 1983	TOTAL	9330.51	MEAN	25.6	MAX	825	MIN	.52	AC-FT	18510		
WTR YR 1984	TOTAL	743.54	MEAN	2.03	MAX	160	MIN	.11	AC-FT	1470		

SANTA YNEZ RIVER BASIN

11121000 SANTA YNEZ RIVER AT JAMESON LAKE, NEAR MONTECITO, CA

LOCATION.--Lat 34°29'32", long 119°30'25", in SW 1/4 NE 1/4 NW 1/4 sec.28, T.5 N., R.25 W., Santa Barbara County, Hydrologic Unit 18060010, on upstream face of Juncal Dam, 6.5 mi north of Carpinteria, and 8 mi northeast of Montecito.

DRAINAGE AREA.--13.9 mi², 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 Bureau of Reclamation datum, or 2,000 ft above arbitrary datum (called sea level) generally used for work 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 city of Montecito, spill and release to river, evaporation, and seepage. Records of net inflow exclude precipitation on lake surface. Monthly evaporation from lake surface computed on basis of evaporation from U.S. Weather Bureau Class A land pan. Area and capacity tables are based on survey made in 1980. Lake capacity at spillway level, gage height, 223.82 ft, 5,725 acre-ft. Dead storage, 32 acre-ft, below lowest outlet at gage height 139.0 ft included in these records. There is no regulation above station. At times flow of Alder Creek, which enters Santa Ynez River 2 mi downstream from Juncal Dam, is diverted at elevation 2,250 ft through a tunnel to Jameson Lake and is included in these records.

COOPERATION.--Reservoir-operation records and related data were furnished by Montecito Water District.

AVERAGE DISCHARGE.--53 years (water years 1932-84), 7.23 ft³/s, 5,240 acre-ft/yr.

MONTHLY NET DISCHARGE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Date	Gage height (feet) ^a	Contents (acre-feet)	Change in contents (acre-feet)	Draft (acre-feet)	Spill and release (acre-feet)	Evapo-ration and seepage (acre-feet)	Total inflow (acre-feet)	Rain on reservoir (acre-feet)	Net inflow (acre-feet)
Sept. 30.....	222.06	5,500	--	--	--	--	--	--	--
Oct. 31.....	223.51	5,690	+190	101	0	33	324	51	273
Nov. 30.....	223.95	5,740	+50	101	138	15	304	44	260
Dec. 31.....	224.05	5,760	+20	81	1240	11	1352	73	1279
CAL YR 1983.....			1,990	973	20,806	409	24,178	663	23,515
Jan. 31.....	223.91	5,740	-20	91	733	19	823	2	821
Feb. 29.....	223.65	5,710	-30	139	13	26	148	0	148
Mar. 31.....	223.17	5,640	-70	157	0	41	128	7	121
Apr. 30.....	221.86	5,470	-170	183	0	48	61	2	59
May 31.....	220.07	5,240	-230	214	0	71	55	0	55
June 30.....	218.01	4,990	-250	204	0	67	21	0	21
July 31.....	215.52	4,690	-300	225	0	79	4	0	4
Aug. 31.....	213.18	4,430	-260	212	0	67	19	1	18
Sept. 30.....	210.76	4,160	-270	221	0	56	7	2	5
WTR YR 1984.....			-1,340	1,929	2124	533	3,246	182	3,064

^a Elevation at 0800.

NOTE.--For months when inflow to the lake was small and other quantities were large, preliminary computations may indicate negative net inflow. This arises primarily from the difficulty of computing net inflow as the residual of several large quantities, which are not conducive to precise measurement. When this occurs, evaporation and seepage is adjusted to produce non-negative inflows.

11122000 SANTA YNEZ RIVER ABOVE GIBRALTAR DAM, NEAR SANTA BARBARA, CA

LOCATION.--Lat 34°31'34", long 119°41'08", in SW 1/4 NW 1/4 SW 1/4 sec.11, T.5 N., R.27 W., Santa Barbara County, Hydrologic Unit 18060010, on upstream face of Gibraltar Dam, 7 mi north of Santa Barbara.

DRAINAGE AREA.--216 mi².

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. Reservoir gage is to National Geodetic Vertical Datum of 1929. 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, evaporation, and seepage. Records of net inflow exclude precipitation on reservoir surface. Monthly evaporation from reservoir surface computed on basis of evaporation from U.S. Weather Bureau Class A land pan. Area and capacity tables are based on survey made in October 1979. Reservoir capacity at spillway level, elevation, 1,399.82 ft, 8,940 acre-ft. Lowest outlet at elevation 1,333.86 ft. 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 1983 TO SEPTEMBER 1984

Date	Elevation (feet) ^a	Contents (acre- feet)	Change in contents (acre- feet)	Draft (acre- feet)	Spill and release (acre- feet)	Evapo- ration and seepage (acre- feet)	Total inflow (acre- feet)	Rain on reservoir (acre- feet)	Net inflow (acre- feet)
Sept. 30.....	1,398.94	8,320	--	--	--	--	--	--	--
Oct. 31.....	1,398.69	8,260	-60	555	2,010	65	2,570	119	2,451
Nov. 30.....	1,399.48	8,460	+200	494	3,570	26	4,290	96	4,194
Dec. 31.....	1,399.35	8,430	-30	433	13,930	22	14,355	155	14,200
CAL YR 1983.....	--	--	-110	5,419	24 ^a ,755	882	255,946	1,453	254,493
Jan. 31.....	1,399.76	8,530	+100	424	2,920	38	3,487	6	3,481
Feb. 29.....	1,399.54	8,470	-60	457	723	51	1,171	3	1,168
Mar. 31.....	1,399.73	8,520	+50	518	155	82	805	19	786
Apr. 30.....	1,398.55	8,220	-300	792	97	99	688	4	684
May 31.....	1,395.32	7,410	-810	964	0	141	295	0	295
June 30.....	1,392.42	6,740	-670	577	10	129	46	0	46
July 31.....	1,389.10	6,000	-740	568	49	145	22	0	22
Aug. 31.....	1,385.41	5,250	-750	602	42	118	12	1	11
Sept. 30.....	1,382.07	4,620	-630	553	22	94	39	4	35
WTR YR 1984.....	--	--	-3,700	6,942	23,528	1,010	27,780	407	27,373

^a Elevation at 0800.

NOTE.--For months when inflow to the reservoir was small and other quantities were large, negative figures of inflow may appear. This arises primarily from the difficulty of computing inflow as the residual of several larger quantities, which are not conducive to precise measurement. When this occurs, evaporation and seepage is adjusted to produce non-negative inflows.

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 NW 1/4 SW 1/4 SW 1/4 sec.11, T.5 N., R.27 W., Santa Barbara County, Hydrologic Unit 18060010, on left bank 700 ft downstream from Gibraltar Dam, and 7 mi north of Santa Barbara.

DRAINAGE AREA.--216 mi².

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 National Geodetic Vertical Datum of 1929. Supplementary gage and sharp-crested weir 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 fair. Flow regulated by Jameson Lake (station 11121000) and Gibraltar Reservoir (station 11122000). City of Santa Barbara diverted 6,940 acre-ft during current year from Gibraltar Reservoir; Montecito Water District diverted 1,930 acre-ft during current year from Jameson Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,200 ft³/s Jan. 25, 1969, gage height, 25.8 ft, from rating curve extended above 2,100 ft³/s on basis of computations of flow from gate openings and flow over dam at gage heights 17.5 ft and 25.8 ft; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,430 ft³/s Dec. 25 (manipulation of spill gates), gage height, 14.10 ft; no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	387	11	70	125	53	3.2	0		0	.52	1.6	.45
2	173	14	25	107	36	0	0		0	.52	1.5	.17
3	.35	17	145	73	28	0	0		0	.52	1.5	.19
4	20	17	92	66	16	0	0		0	.52	1.5	.19
5	15	18	7.8	68	2.3	0	0		0	.52	1.6	.19
6	2.9	19	18	70	5.3	0	32		0	.52	1.5	.19
7	38	19	90	64	7.9	0	16		0	.52	1.5	.19
8	3.0	24	105	60	9.8	0	0		0	.92	1.5	.19
9	5.0	29	80	60	12	0	0		0	1.1	1.5	.17
10	71	33	81	61	12	0	0		0	1.1	1.5	.19
11	50	40	75	59	12	0	0		0	1.1	.74	.19
12	8.0	108	75	55	12	0	0		0	1.1	.19	.21
13	14	144	38	53	13	2.6	0		0	1.0	.11	.25
14	14	59	19	51	12	16	0		0	.80	.12	.26
15	14	31	21	48	8.3	23	0		0	.80	.19	.26
16	16	36	35	46	9.7	14	0		0	.80	.19	.96
17	20	42	48	45	11	9.0	0		0	.80	.19	1.4
18	25	42	52	42	9.9	5.9	0		0	.70	.19	1.5
19	19	40	57	39	9.9	4.6	0		0	.65	.19	1.5
20	8.7	111	76	38	10	0	0		0	.82	.13	1.5
21	9.7	81	72	38	9.4	0	0		.31	.77	.10	.75
22	9.7	28	67	38	9.6	0	0		.52	.65	.15	0
23	8.0	35	61	38	9.0	0	0		.52	.25	.15	0
24	10	61	78	20	8.4	0	0		.52	.22	.18	0
25	9.9	452	3620	1.3	8.7	0	1.0		.52	.18	.14	0
26	10	57	888	2.7	8.0	0	0		.52	.25	.11	0
27	10	17	291	6.6	7.7	0	0		.52	.54	.17	0
28	11	42	216	10	7.1	0	0		.52	1.6	.53	0
29	9.9	72	207	16	6.6	0	0		.52	1.7	.80	0
30	10	103	169	15	---	0	0		.52	1.7	.80	0
31	9.3	---	144	56	---	0	---		---	1.7	.80	---
TOTAL	1011.45	1802	7022.8	1471.6	364.6	78.3	49.0	0	4.99	24.89	21.37	10.90
MEAN	32.6	60.1	227	47.5	12.6	2.53	1.63	0	.17	.80	.69	.36
MAX	387	452	3620	125	53	23	32	0	.52	1.7	1.6	1.5
MIN	.35	11	7.8	1.3	2.3	0	0	0	0	.18	.10	0
AC-FT	2010	3570	13930	2920	723	155	97	0	9.9	49	42	22
CAL YR 1983	TOTAL	125912.07	MEAN	345	MAX	14300	MIN	0	AC-FT	249700		
WTR YR 1984	TOTAL	11861.90	MEAN	32.4	MAX	3620	MIN	0	AC-FT	23530		

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, Hydrologic Unit 18060010, on left bank 0.3 mi downstream from Los Laureles Canyon Creek, 10 mi downstream from Gibraltar Reservoir, and 13.3 mi east of Santa Ynez.

DRAINAGE AREA.--277 mi².

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 National Geodetic Vertical Datum of 1929.

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 Jan. 25, 1969, gage height, 18.88 ft, from rating curve extended above 11,600 ft³/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, 6,230 ft³/s Dec. 25, gage height, 8.15 ft; no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	21	73	139	70	19	12	.45				
2	34	22	34	125	56	16	14	.57				
3	31	13	74	109	47	11	15	.05				
4	23	13	153	82	42	9.5	16	.02				
5	24	13	46	81	31	10	16	.03				
6	22	13	35	81	22	12	16	.24				
7	17	13	36	80	22	14	23	.30				
8	30	13	90	78	24	14	20	.23				
9	19	12	77	76	28	14	13	.13				
10	16	12	72	72	27	18	7.9	.04				
11	49	21	67	70	26	16	6.7	0				
12	23	22	66	70	26	16	5.6	0				
13	16	57	61	65	25	16	4.9	0				
14	15	53	39	65	27	23	4.5	0				
15	15	25	31	60	27	32	3.8	0				
16	15	17	30	60	23	32	3.6	0				
17	15	16	30	60	23	28	3.4	0				
18	15	16	34	58	23	23	3.4	0				
19	14	16	37	56	22	22	3.8	0				
20	14	18	38	53	22	18	3.5	0				
21	14	49	49	51	21	16	4.0	0				
22	13	29	48	49	21	13	4.2	0				
23	13	19	44	49	21	11	3.3	0				
24	13	24	51	49	21	11	3.0	0				
25	13	196	3290	32	21	13	3.6	0				
26	13	169	1150	23	20	14	3.5	0				
27	12	35	383	22	20	16	3.5	0				
28	12	27	205	26	19	16	3.5	0				
29	13	33	213	30	19	15	2.1	0				
30	13	42	179	34	---	14	.53	0				
31	13	---	153	35	---	12	---	0				
TOTAL	583	1029	6888	1940	796	514.5	227.33	2.06	0	0	0	0
MEAN	18.8	34.3	222	62.6	27.4	16.6	7.58	.066	0	0	0	0
MAX	49	196	3290	139	70	32	23	.57	0	0	0	0
MIN	12	12	30	22	19	9.5	.53	0	0	0	0	0
AC-FT	1160	2040	13660	3850	1580	1020	451	4.1	0	0	0	0
CAL YR 1983	TOTAL	163018.68	MEAN	447	MAX	17300	MIN	.88	AC-FT	323300		
WTR YR 1984	TOTAL	11979.89	MEAN	32.7	MAX	3290	MIN	0	AC-FT	23760		

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, Hydrologic Unit 18060010, on right bank 0.6 mi downstream from Pine Canyon, and 9.9 mi east of Santa Ynez.

DRAINAGE AREA.--74.0 mi².

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 National Geodetic Vertical Datum of 1929. See WSP 1735 for history of changes prior to Sept. 27, 1952. Sept. 27, 1952, to June 24, 1969, at datum 3.25 ft higher.

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

AVERAGE DISCHARGE.--43 years, 18.3 ft³/s, 13,260 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,050 ft³/s Feb. 24, 1969, gage height, 14.45 ft, from floodmark, present datum, from rating curve extended above 2,500 ft³/s on basis of slope-area measurement at gage height 14.16 ft; no flow at times since 1953.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft³/s and maximum (*), from rating curve extended above 110 ft³/s on basis of slope-area measurement at gage height 12.10 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	0915	250	8.49	Nov. 24	2115	547	9.19
Nov. 1	1215	338	8.73	Dec. 25	1215	*1,290	10.32

Minimum, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129	45	16	43	16	12	7.3	5.0	.31	.10		
2	30	17	15	40	16	12	7.3	4.8	.31	.10		
3	16	11	28	36	16	12	7.0	4.4	.30	.10		
4	12	9.9	37	33	15	12	7.1	3.9	.28	.09		
5	10	9.4	23	32	15	11	7.7	3.7	.25	.08		
6	9.6	9.0	19	31	15	11	8.1	3.4	.24	.07		
7	9.2	9.0	17	30	14	11	7.6	3.0	.25	.06		
8	9.5	9.2	16	29	14	11	6.8	3.0	.25	.06		
9	9.5	9.0	18	28	14	11	6.5	2.8	.21	.05		
10	9.0	8.8	34	27	15	10	6.1	2.5	.20	.04		
11	7.9	25	23	26	14	9.9	6.0	2.2	.20	.03		
12	7.4	30	25	25	14	9.9	5.5	1.9	.20	.03		
13	7.2	21	21	24	14	10	5.4	1.7	.18	.02		
14	7.2	15	18	24	14	14	5.0	1.7	.16	.01		
15	7.3	13	17	23	14	12	4.6	1.7	.16	.01		
16	7.6	12	16	22	14	10	4.5	1.7	.16	0		
17	7.7	11	16	22	14	9.6	4.5	1.7	.16	0		
18	7.4	11	15	21	14	8.7	4.7	1.7	.15	0		
19	7.0	10	15	20	14	8.4	6.4	1.7	.16	0		
20	6.7	14	15	20	13	8.1	5.9	1.5	.16	0		
21	6.6	14	15	19	13	7.8	5.6	1.4	.15	0		
22	6.4	13	15	19	13	7.3	5.2	1.4	.13	0		
23	6.3	12	14	18	13	7.2	4.8	1.1	.13	0		
24	6.2	114	18	18	13	7.2	4.5	.94	.13	0		
25	5.9	122	607	18	13	7.3	4.4	.88	.13	0		
26	5.9	34	169	17	13	7.4	4.3	.71	.13	0		
27	5.7	24	94	17	13	7.4	4.7	.57	.13	0		
28	5.7	19	75	17	13	7.0	5.3	.46	.12	0		
29	6.0	16	62	16	13	7.0	5.2	.41	.12	0		
30	6.5	16	54	16	---	6.7	5.1	.38	.12	0		
31	6.6	---	48	16	---	6.8	---	.35	---	0		
TOTAL	385.0	683.3	1575	747	406	292.7	173.1	62.60	5.58	0.85	0	0
MEAN	12.4	22.8	50.8	24.1	14.0	9.44	5.77	2.02	.19	.027	0	0
MAX	129	122	607	43	16	14	8.1	5.0	.31	.10	0	0
MIN	5.7	8.8	14	16	13	6.7	4.3	.35	.12	0	0	0
AC-FT	764	1360	3120	1480	805	581	343	124	11	1.7	0	0
CAL YR 1983	TOTAL	28352.1	MEAN	77.7	MAX	2290	MIN	3.4	AC-FT	56240		
WTR YR 1984	TOTAL	4331.13	MEAN	11.8	MAX	607	MIN	0	AC-FT	8590		

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, Hydrologic Unit 18060010, at Bradbury Dam on Santa Ynez River, on upstream face near left end of dam, 6.1 mi east of Santa Ynez.

DRAINAGE AREA.--417 mi².

PERIOD OF RECORD.--November 1952 to current year. Prior to October 1960, published as "Cachuma Reservoir near Santa Ynez."

GAGE.--Water-stage recorder. Datum of gage is 0.00 ft, Bureau of Reclamation datum. 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, 3,114 acre-ft, included in contents. Capacity below sill of inlet to Tecolote tunnel, elevation, 660 ft, 32,514 acre-ft, below spillway level, elevation, 720 ft, 125,292 acre-ft, below top of 4 radial gates, elevation, 750 ft, 204,874 acre-ft. 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, nearby communities, Santa Ynez River Water Conservation District, and to Cachuma recreation area.

COOPERATION.--Reservoir elevation, contents, and diversion figures were furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 221,100 acre-ft Feb. 24, 1969, elevation, 755.11 ft; minimum since initial filling in April 1958, 105,300 acre-ft Dec. 24, 25, 1977, elevation 710.56 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 205,300 acre-ft Dec. 26, elevation, 750.15 ft; minimum, 171,600 acre-ft Sept. 30, elevation, 738.56 ft.

MONTHEND ELEVATION NGVD AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Total diversions (acre-feet)
Sept. 30.....	747.20	196,300	--	--
Oct. 31.....	747.62	197,600	+1,300	1,880
Nov. 30.....	748.62	200,600	+3,000	1,330
Dec. 31.....	749.92	204,600	+4,000	1,340
CAL YR 1983.....	--	--	+37,000	24,230
Jan. 31.....	749.92	204,600	0	1,630
Feb. 29.....	749.79	204,200	-400	2,220
Mar. 31.....	749.08	202,000	-2,200	3,120
Apr. 30.....	747.97	198,700	-3,300	2,900
May 31.....	746.56	194,400	-4,300	3,120
June 30.....	745.05	190,000	-4,400	2,900
July 31.....	742.34	182,200	-7,800	3,870
Aug. 31.....	740.46	176,900	-5,300	3,730
Sept. 30.....	738.56	171,600	-5,300	2,810
WTR YR 1984.....	--	--	-24,700	30,850

SANTA YNEZ RIVER BASIN

11128250 ALAMO PINTADO CREEK NEAR SOLVANG, CA

LOCATION.--Lat 34°37'06", long 120°07'11", in SE 1/4 NW 1/4 NW 1/4 sec.11, T.6 N., R.31 W., Santa Barbara County, Hydrologic Unit 18060010, on right bank at downstream side of bridge on Alamo Pintado Road, 1.5 mi northeast of Solvang.

DRAINAGE AREA.--29.4 mi².

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 Santa Barbara County datum.

REMARKS.--Records poor. No regulation above station. Pumping from wells along stream for irrigation.

AVERAGE DISCHARGE.--14 years, 0.88 ft³/s, 638 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 900 ft³/s Mar. 1, 1983, gage height, 6.10 ft, from floodmarks, from rating curve extended above 70 ft³/s on basis of slope-area measurements at gage heights 4.90 ft and 5.51 ft; maximum gage height, 6.80 ft Feb. 9, 1978, from floodmark; no flow most of each year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 25, 1969, reached a stage of 10.32 ft, from information by Santa Barbara County Flood Control District.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 10 ft³/s and maximum (*), from rating curve extended as explained above:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 25	Unknown	Unknown	Unknown
Dec. 25	1145	*126	4.15

Minimum daily discharge, 0.14 ft³/s Sept. 5, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.44	1.8	.54	1.3	1.1	1.0	.68	1.2	.56	.30	.26	.29
2	.22	.50	.52	1.3	1.1	.97	.60	1.1	.51	.25	.30	.24
3	.22	.45	.90	1.3	1.2	1.1	.66	1.1	.48	.27	.31	.23
4	.19	.45	2.0	1.3	1.2	1.1	.77	1.1	1.3	.29	.34	.44
5	.19	.45	.54	1.3	1.2	1.0	.81	1.1	.40	.29	.38	.14
6	.26	.45	.54	1.3	1.2	1.1	.74	1.2	.34	.26	.37	.18
7	.32	.53	.54	1.3	1.1	1.1	.57	1.2	.33	.30	.28	.20
8	.25	.50	.90	1.3	1.1	1.1	.42	1.0	.35	.29	.24	.15
9	.27	.49	1.8	1.3	1.0	1.1	.48	1.0	.40	.29	.34	.14
10	.26	.61	.49	1.0	1.0	.96	.52	1.1	.42	.29	.32	.17
11	.24	.84	.51	1.0	1.1	.97	.76	.87	.36	.31	.31	.20
12	.21	1.1	.45	1.1	1.2	1.0	.52	.86	.33	.30	.33	.29
13	.23	.50	.48	1.2	1.1	1.2	.54	.99	.27	.39	.30	.41
14	.24	.50	.59	1.2	1.1	1.3	.64	.91	.35	.30	.34	.52
15	.26	.50	.59	1.0	.98	.93	.57	1.0	.39	.28	.36	.58
16	.26	.50	.59	1.2	.96	.83	.62	.97	.39	.33	.72	.59
17	.25	.50	.59	1.0	.91	.77	.81	.73	.43	.31	.37	.44
18	.26	.50	.59	1.1	.95	.75	.93	.79	.49	.32	.45	.42
19	.26	.50	.67	1.2	.92	.78	1.1	.75	.38	.37	.31	.43
20	.26	.60	.65	1.2	.88	.78	1.1	.52	.44	.41	.43	.50
21	.25	.50	.55	1.2	.94	.82	1.0	.45	.45	.38	.93	.55
22	.24	.50	.50	1.0	1.1	.76	.98	.41	.44	.42	.50	.55
23	.21	.50	.58	1.0	1.0	.74	1.0	.41	.58	1.4	.40	.86
24	.22	1.9	1.4	1.0	1.0	.71	1.2	.47	.54	.41	.45	.57
25	.22	5.0	26	1.0	1.0	.65	1.1	.55	.51	.26	.41	.52
26	.24	.70	9.0	1.1	.98	.71	1.1	.45	.32	.23	.36	.42
27	.25	.54	1.8	1.1	1.0	.65	1.2	.41	.30	.21	.39	.39
28	.24	.52	1.3	1.2	1.0	.63	1.2	.49	.28	.19	.39	.42
29	.26	.52	1.3	1.2	1.0	.63	1.2	.53	.27	.21	.35	.44
30	.19	.52	1.3	1.1	---	.53	1.0	.42	.34	.19	.34	.49
31	.25	---	1.3	1.0	---	.65	---	.53	---	.22	.31	---
TOTAL	7.66	23.47	59.51	35.8	30.32	27.32	24.82	24.61	12.95	10.27	11.89	11.77
MEAN	.25	.78	1.92	1.15	1.05	.88	.83	.79	.43	.33	.38	.39
MAX	.44	5.0	26	1.3	1.2	1.3	1.2	1.2	1.3	1.4	.93	.86
MIN	.19	.45	.45	1.0	.88	.53	.42	.41	.27	.19	.24	.14
AC-FT	15	47	118	71	60	54	49	49	26	20	24	23

CAL YR 1983	TOTAL	2316.29	MEAN	6.35	MAX	235	MIN	0	AC-FT	4590
WTR YR 1984	TOTAL	280.39	MEAN	.77	MAX	26	MIN	.14	AC-FT	556

11128300 ALISAL RESERVOIR NEAR SOLVANG, CA

LOCATION.--Lat 34°32'56", long 120°07'45", in SE 1/4 NE 1/4 NW 1/4 sec.4, T.5 N., R.31 W., Santa Barbara County, Hydrologic Unit 18060010, in cove, on right bank 0.4 mi upstream from reservoir spillway, and 3 mi south of Solvang.

DRAINAGE AREA.--7.83 mi².

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

GAGE.--Water-stage recorder. Datum of gage is to National Geodetic Vertical Datum of 1929.

REMARKS.--Lake is formed by earthfill dam. Storage began Dec. 19, 1970. Usable capacity, 2,260 acre-ft between bottom of outlet gate at elevation 555.70 ft and crest of spillway at elevation 599.88 ft. Dead storage, 110 acre-ft. Inflow must total 150 acre-ft during any one month between November and June in order to store flows for that water year.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 2,770 acre-ft Mar. 4, 1978, elevation, 604.31 ft; minimum, 748 acre-ft Nov. 8-10, 1972, elevation, 577.15 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,490 acre-ft Dec. 25, elevation, 601.27 ft; minimum, 2,040 acre-ft Sept. 30, elevation, 596.24 ft.

MONTHEND ELEVATION NGVD AND CONTENTS, AT 1800, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	599.66	2,350	--
Oct. 31.....	599.83	2,360	+10
Nov. 30.....	599.87	2,370	+10
Dec. 31.....	600.05	2,380	+10
CAL YR 1983.....	--	--	+10
Jan. 31.....	599.94	2,370	-10
Feb. 29.....	598.28	2,230	-140
Mar. 31.....	598.75	2,270	+40
Apr. 30.....	598.74	2,270	0
May 31.....	598.35	2,230	-40
June 30.....	597.83	2,180	-50
July 31.....	597.22	2,130	-50
Aug. 31.....	596.72	2,080	-50
Sept. 30.....	596.24	2,040	-40
WTR YR 1984.....	--	--	-310

SANTA YNEZ RIVER BASIN

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, Hydrologic Unit 18060010, near left bank on downstream end of pier of Alisal Road bridge, 25 ft downstream from Alisal Creek, 0.8 mi southwest of Solvang, and 10 mi downstream from Lake Cachuma.

DRAINAGE AREA.--579 mi².

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 National Geodetic Vertical Datum of 1929. Various datums used during period of record. July 29 to Sept. 30, 1953, auxiliary water-stage recorder 750 ft upstream at different datum. Oct. 1, 1953, to Sept. 30, 1968, water-stage recorder at datum 2.00 ft higher.

REMARKS.--Records poor. Flow regulated by Jameson Lake, Gibraltar Reservoir, and since November 1952 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, estimated, Jan. 25, 1969, gage height, 17.1 ft, from floodmark; no flow for several months in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,250 ft³/s Dec. 25, gage height, 3.99 ft; no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	7.7	35	350	20	5.6	2.0	.63		0		0
2	4.0	10	34	250	20	6.3	3.1	.60		0		0
3	5.0	9.8	42	190	55	7.7	3.5	.50		0		0
4	6.0	9.8	46	145	40	6.9	3.2	.25		0		0
5	5.0	9.2	41	115	30	6.5	4.2	.06		0		0
6	5.0	9.1	40	100	28	8.4	1.7	0		0		0
7	5.0	9.1	39	110	18	10	1.1	0		0		0
8	5.0	9.1	38	140	14	11	1.0	0		0		0
9	5.0	9.1	58	120	13	9.8	1.7	0		0		0
10	5.0	10	77	98	13	8.9	2.9	0		0		0
11	5.0	12	64	80	12	8.1	2.1	0		0		0
12	4.8	12	58	74	12	7.6	1.5	0		0		0
13	4.8	10	55	75	18	7.6	1.2	0		0		0
14	5.0	9.1	52	80	25	8.4	1.0	0		0		0
15	4.9	9.1	49	80	16	7.8	.77	0		0		0
16	4.8	9.4	47	80	12	7.6	1.3	0		0		0
17	5.0	9.8	47	80	11	7.4	1.5	0		0		0
18	5.3	9.8	46	70	11	6.6	1.6	0		0		0
19	5.3	9.3	44	55	9.9	6.4	1.6	0		0		0
20	5.3	9.7	43	52	8.6	6.6	2.1	0		0		0
21	5.3	9.8	42	52	7.5	6.3	2.2	0		0		0
22	4.8	9.8	41	52	7.4	5.9	1.7	0		0		0
23	4.8	9.6	41	52	7.7	5.5	1.3	0		0		0
24	4.8	9.8	48	52	6.4	6.0	1.2	0		56		0
25	4.8	47	2130	52	5.4	7.8	.95	0		53		0
26	4.8	43	1700	51	4.5	10	1.6	0		47		0
27	4.8	39	950	45	4.3	11	1.8	0		46		15
28	4.8	38	700	35	3.6	7.8	1.4	0		8.7		.71
29	4.4	37	500	25	4.7	3.9	.80	0		2.9		0
30	4.4	36	600	22	---	2.4	.47	0		4.2		0
31	4.4	---	450	21	---	1.6	---	0		.02		---
TOTAL	151.3	472.1	8157	2803	438.0	223.4	52.49	2.04	0	217.82	0	15.71
MEAN	4.88	15.7	263	90.4	15.1	7.21	1.75	.066	0	7.03	0	.52
MAX	6.0	47	2130	350	55	11	4.2	.63	0	56	0	15
MIN	4.0	7.7	34	21	3.6	1.6	.47	0	0	0	0	0
AC-FT	300	936	16180	5560	869	443	104	4.0	0	432	0	31
CAL YR 1983	TOTAL	263261.6	MEAN	721	MAX	28700	MIN	2.3	AC-FT	522200		
WTR YR 1984	TOTAL	12532.86	MEAN	34.2	MAX	2130	MIN	0	AC-FT	24860		

11132500 SALSIPUEDES CREEK NEAR LOMPOC, CA

LOCATION.--Lat 34°35'19", long 120°24'27", in W 1/2 sec.24, T.6 N., R.34 W., Santa Barbara County, Hydrologic Unit 18060010, on right bank at bridge on Jalama Road, 0.4 mi downstream from El Jaro Creek, and 4.4 mi southeast of Lompoc.

DRAINAGE AREA.--47.1 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1941 to current year.

GAGE.--Water-stage recorder and concrete low-water control. Altitude of gage is 220 ft, from topographic map.

REMARKS.--Records poor. No regulation above station. Small diversions for irrigation above station.

AVERAGE DISCHARGE.--43 years, 10.4 ft³/s, 7,530 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,400 ft³/s Mar. 15, 1952, gage height, 20.8 ft; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 838 ft³/s Dec. 25, gage height, 4.11 ft, no other peak above base of 700 ft³/s; minimum daily, 0.22 ft³/s several days during August and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	4.8	5.3	10	5.7	4.9	2.7	2.4	1.5	.70	.41	.22
2	4.4	4.7	4.9	10	5.7	4.9	2.6	2.3	1.5	.66	.53	.22
3	3.9	3.4	20	9.7	5.7	4.9	2.5	2.1	1.5	.66	.40	.22
4	3.8	3.4	8.3	9.7	5.7	5.1	2.5	1.9	1.5	.81	.41	.22
5	3.8	4.1	5.6	9.1	5.7	4.7	2.8	1.9	1.5	.66	.41	.22
6	3.8	4.1	5.0	8.8	5.7	4.5	3.1	1.9	1.5	.66	.41	.22
7	3.8	4.1	4.9	8.6	5.7	4.5	2.8	1.9	1.4	.53	.41	.31
8	3.8	4.1	4.9	8.6	5.6	4.5	2.5	1.8	1.4	.53	.41	.22
9	3.8	4.1	44	8.4	5.3	4.6	2.8	1.8	1.4	.66	.41	.22
10	3.8	4.1	11	8.1	5.9	4.6	2.8	1.8	1.3	.66	.41	.22
11	3.8	14	9.8	7.9	5.3	4.5	3.1	1.8	1.3	.66	.41	.31
12	3.8	5.9	9.1	7.6	5.3	4.2	3.1	1.8	1.3	.66	.31	.33
13	3.8	4.8	6.5	7.6	5.4	3.9	3.1	1.8	1.2	.66	.31	.41
14	3.8	4.0	5.9	7.2	5.5	6.5	2.5	1.8	1.2	.66	.22	.35
15	3.8	3.8	5.7	7.1	5.3	3.5	2.3	1.8	1.2	.66	.31	.29
16	3.8	3.8	5.3	7.3	5.7	3.3	2.4	1.7	1.2	.66	.31	.34
17	3.8	3.9	5.3	7.1	5.4	3.2	2.2	1.7	1.1	.66	.22	.28
18	3.8	4.4	5.1	6.7	5.3	3.1	2.3	1.7	1.1	.66	.31	.29
19	3.8	4.0	4.9	6.6	5.3	3.1	2.3	1.7	1.1	.66	.31	.31
20	3.7	4.9	4.9	6.6	5.2	3.1	2.5	1.7	1.1	.66	.31	.28
21	3.8	5.4	4.9	6.6	5.1	3.0	2.3	1.7	1.0	.66	.31	.30
22	3.7	4.4	4.9	6.6	5.2	2.8	2.3	1.7	.97	.41	.41	.33
23	3.6	4.1	4.9	6.6	4.6	2.8	2.5	1.7	.97	.66	.31	.34
24	3.7	8.4	27	6.2	4.5	2.9	2.5	1.6	.97	.53	.31	.31
25	3.4	11	326	6.3	4.5	3.1	2.5	1.6	1.1	.53	.22	.31
26	3.3	5.2	67	6.0	4.5	3.1	2.5	1.6	.97	.53	.31	.28
27	3.4	4.6	45	5.7	4.5	3.0	2.8	1.6	.81	.53	.41	.22
28	3.3	4.5	24	5.7	4.5	2.8	2.8	1.6	.81	.53	.41	.22
29	3.3	4.5	13	5.7	4.7	2.8	2.8	1.6	.97	.41	.31	.22
30	3.8	4.8	12	5.7	---	2.7	2.8	1.6	.97	.53	.22	.22
31	3.8	---	11	5.7	---	2.7	---	1.6	---	.41	.22	---
TOTAL	117.3	151.3	716.1	229.5	152.5	117.3	78.7	55.2	35.84	18.86	10.67	8.23
MEAN	3.78	5.04	23.1	7.40	5.26	3.78	2.62	1.78	1.19	.61	.34	.27
MAX	5.4	14	326	10	5.9	6.5	3.1	2.4	1.5	.81	.53	.41
MIN	3.3	3.4	4.9	5.7	4.5	2.7	2.2	1.6	.81	.41	.22	.22
AC-FT	233	300	1420	455	302	233	156	109	71	37	21	16
CAL YR 1983	TOTAL	19318.8	MEAN	52.9	MAX	1410	MIN	1.4	AC-FT	38320		
WTR YR 1984	TOTAL	1691.50	MEAN	4.62	MAX	326	MIN	.22	AC-FT	3360		

SANTA YNEZ RIVER BASIN

11132500 SALSIPUEDES CREEK NEAR LOMPOC, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978 to current year.

CHEMICAL ANALYSES: Water years 1978 to current year.

pH: Water year 1982 to September 1983.

WATER TEMPERATURES: Water year 1982 to September 1983.

PERIOD OF DAILY RECORD.--

pH: October 1981 to September 1983.

WATER TEMPERATURES: October 1981 to September 1983.

INSTRUMENTATION.--Water-quality monitor from October 1981 to September 1983.

EXTREMES FOR PERIOD OF DAILY RECORD.--

pH: Maximum, 8.8 units July 30, Sept. 16, 1983; minimum, 7.2 units June 6, 16, 1983.

WATER TEMPERATURES: Maximum recorded, 26.0°C July 13, 14, 1983; minimum recorded, 3.5°C Jan. 8, 1982.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UNHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
OCT												
05...	1340	3.6	1340	8.3	20.5	--	--	--	--	--	--	--
NOV												
01...	1300	4.3	1270	8.3	18.5	--	--	--	--	--	--	--
DEC												
05...	1400	5.3	1290	8.4	9.5	540	220	140	47	92	27	2
JAN												
04...	1430	9.8	1270	8.4	10.5	--	--	--	--	--	--	--
FEB												
01...	1325	6.0	1300	8.5	11.0	--	--	--	--	--	--	--
MAR												
01...	1445	4.7	1200	8.4	17.0	--	--	--	--	--	--	--
APR												
02...	1330	2.6	1200	8.5	19.0	--	--	--	--	--	--	--
MAY												
01...	1320	2.4	1200	8.2	17.0	--	--	--	--	--	--	--
JUN												
05...	1550	1.5	1300	8.3	21.0	--	--	--	--	--	--	--
JUL												
02...	1455	.70	1400	8.2	26.0	--	--	--	--	--	--	--
AUG												
03...	1400	.44	1380	8.1	24.5	--	--	--	--	--	--	--
SEP												
05...	1500	.21	1550	7.9	23.5	--	--	--	--	--	--	--

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
OCT											
05...	--	--	--	--	--	872	--	--	--	--	--
NOV											
01...	--	--	--	--	--	815	--	--	--	--	--
DEC											
05...	2.6	320	260	93	26	--	850	.84	.15	430	23
JAN											
04...	--	--	--	--	--	925	--	--	--	--	--
FEB											
01...	--	--	--	--	--	833	--	--	--	--	--
MAR											
01...	--	--	--	--	--	794	--	--	--	--	--
APR											
02...	--	--	--	--	--	795	--	--	--	--	--
MAY											
01...	--	--	--	--	--	793	--	--	--	--	--
JUN											
05...	--	--	--	--	--	854	--	--	--	--	--
JUL											
02...	--	--	--	--	--	818	--	--	--	--	--
AUG											
03...	--	--	--	--	--	987	--	--	--	--	--
SEP											
05...	--	--	--	--	--	1030	--	--	--	--	--

11133000 SANTA YNEZ RIVER AT NARROWS, NEAR LOMPOC, CA

LOCATION.--Lat 34°38'14", long 120°25'28", in Canada de Salsipuedes Grant, Santa Barbara County, on left bank 0.6 mi upstream from State Highway 246, 1.9 mi east of Lompoc, 1.8 mi downstream from Salsipuedes Creek, and 12.4 mi downstream from Lake Cachuma.

DRAINAGE AREA.--789 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1947 to November 1951 (irrigation seasons only). May 1952 to September 1963, October 1964 to September 1978, October 1980 to current year. Records equivalent, except for 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, October 1978 to September 1980.

GAGE.--Two water-stage recorders. Altitude of main gage is 90 ft, 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 of present site. Supplementary gage, used for high-water periods, at site 0.6 mi downstream at datum 79.25 ft National Geodetic Vertical Datum of 1929.

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 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 Jan. 25, 1969, gage height, 24.20 ft, from supplementary gage; no flow at times in each year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 9, 1907, 120,000 ft³/s, gage height, 22.0 ft site and datum then in use, from mean-depth study.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,200 ft³/s Dec. 26, gage height, 9.38 ft, from supplementary gage; no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	24	34	400	49	22	8.5	4.2	.44			
2	32	33	34	298	45	23	8.2	3.9	.43			
3	30	42	43	242	42	23	6.9	3.1	.42			
4	25	37	60	235	44	23	6.1	2.6	.41			
5	22	35	60	197	58	22	6.6	2.3	.41			
6	21	32	50	150	63	21	7.4	2.0	.39			
7	21	31	48	176	57	20	6.9	1.6	.37			
8	21	31	43	186	50	19	7.2	1.3	.35			
9	22	29	67	188	46	21	7.9	1.2	.33			
10	21	28	53	192	48	21	6.9	1.0	.31			
11	20	39	60	166	48	22	6.8	.85	.30			
12	20	33	55	145	43	23	6.1	.74	.28			
13	19	31	49	142	45	24	6.2	.70	.26			
14	19	29	45	135	50	39	5.9	.64	.24			
15	19	27	41	138	36	31	5.5	.60	.22			
16	19	27	38	146	31	27	5.3	.58	.21			
17	19	28	37	146	28	25	5.5	.56	.19			
18	20	30	34	137	27	24	5.2	.54	.18			
19	19	27	34	134	26	24	6.6	.52	.16			
20	19	31	33	116	25	24	6.6	.51	.14			
21	19	30	31	111	24	21	6.1	.50	.12			
22	20	25	31	107	23	18	5.5	.50	.10			
23	20	24	31	103	23	15	6.1	.50	.08			
24	21	29	43	97	23	15	5.5	.49	.06			
25	21	43	1200	96	23	15	5.1	.48	.04			
26	21	37	3520	93	23	15	4.9	.48	.02			
27	24	43	1200	88	23	13	4.3	.47	0			
28	21	39	615	76	23	11	3.8	.46	0			
29	19	34	467	67	23	10	4.2	.45	0			
30	20	34	459	59	---	9.3	4.4	.44	0			
31	20	---	503	52	---	8.8	---	.44	---			
TOTAL	676	962	9018	4618	1069	629.1	182.2	34.65	6.46	0	0	0
MEAN	21.8	32.1	291	149	36.9	20.3	6.07	1.12	.22	0	0	0
MAX	42	43	3520	400	63	39	8.5	4.2	.44	0	0	0
MIN	19	24	31	52	23	8.8	3.8	.44	0	0	0	0
AC-FT	1340	1910	17890	9160	2120	1250	361	69	13	0	0	0
CAL YR 1983	TOTAL	261940.4	MEAN	718	MAX	33200	MIN	5.6	AC-FT	519600		
WTR YR 1984	TOTAL	17195.41	MEAN	47.0	MAX	3520	MIN	0	AC-FT	34110		

SANTA YNEZ RIVER BASIN

11133000 SANTA YNEZ RIVER AT NARROWS, NEAR LOMPOC, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREA- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
OCT												
05...	1125	23	1610	8.1	23.5	--	--	--	--	--	--	--
NOV												
01...	1130	19	1500	8.3	20.5	--	--	--	--	--	--	--
DEC												
05...	1105	61	1300	8.1	12.0	600	340	130	68	81	22	1
JAN												
04...	1110	229	1050	8.2	12.5	--	--	--	--	--	--	--
FEB												
01...	1045	49	1270	8.3	12.5	--	--	--	--	--	--	--
MAR												
01...	1100	22	1330	8.1	18.0	--	--	--	--	--	--	--
APR												
02...	1035	8.8	1500	8.3	19.5	--	--	--	--	--	--	--
MAY												
01...	1025	4.3	1600	8.1	17.0	--	--	--	--	--	--	--
JUN												
05...	1020	.41	1550	7.9	18.0	--	--	--	--	--	--	--

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUN OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
OCT											
05...	--	--	--	--	--	1150	--	--	--	--	--
NOV											
01...	--	--	--	--	--	1080	--	--	--	--	--
DEC											
05...	3.2	270	350	78	24	--	900	.22	.06	400	110
JAN											
04...	--	--	--	--	--	754	--	--	--	--	--
FEB											
01...	--	--	--	--	--	897	--	--	--	--	--
MAR											
01...	--	--	--	--	--	915	--	--	--	--	--
APR											
02...	--	--	--	--	--	1120	--	--	--	--	--
MAY											
01...	--	--	--	--	--	1140	--	--	--	--	--
JUN											
05...	--	--	--	--	--	1170	--	--	--	--	--

11134800 MIGUELITO CREEK AT LOMPOC, CA

LOCATION.--Lat 34°37'57", long 120°27'51", in Lompoc Grant, Santa Barbara County, Hydrologic Unit 18060010, on right bank at upstream end of debris dam, and 1,500 ft south of Lompoc Union High School.

DRAINAGE AREA.--11.6 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 97.94 ft Santa Barbara County Flood Control District datum.

REMARKS.--Records fair except those below 1.0 ft³/s, which are poor. No regulation or diversion above station; some pumping from wells along stream for irrigation.

AVERAGE DISCHARGE.--14 years, 1.96 ft³/s, 1,420 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,210 ft³/s Jan. 26, 1983, gage height, 7.63 ft, from rating curve extended above 380 ft³/s on basis of slope-area measurements at gage heights 4.34 ft and 7.63 ft; no flow many days in some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 25, 1969, reached a stage of 5.83 ft, from floodmark, discharge, 680 ft³/s.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 3	1030	164	3.27
Dec. 9	0930	157	3.22
Dec. 24	2345	*266	3.88

Minimum daily discharge, 0.34 ft³/s Sept. 9, 10, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	1.2	1.0	2.1	1.4	1.4	1.2	.86	.78	.90	.56	.52
2	1.4	1.2	1.0	2.1	1.4	1.4	1.2	.88	1.0	.91	.47	.55
3	1.6	1.1	1.0	2.3	1.3	1.4	1.2	.99	.99	.83	.45	.61
4	1.5	1.0	1.8	2.4	1.3	1.4	1.5	.91	.91	.73	.47	.54
5	1.4	1.0	1.4	2.3	1.3	1.4	1.5	.82	.88	.72	.49	.38
6	1.4	1.0	1.5	2.1	1.3	1.4	1.2	.75	.81	.68	.54	.35
7	1.3	1.1	1.3	2.1	1.2	1.2	.92	.87	.79	.68	.55	.35
8	1.5	1.1	1.8	2.1	1.1	1.2	1.0	.93	.96	.67	.52	.35
9	1.5	1.0	1.9	2.1	1.1	1.1	1.1	.84	.96	.66	.51	.34
10	1.4	1.0	1.9	2.1	1.3	1.0	1.1	1.0	.96	.66	.48	.34
11	1.3	5.0	2.2	1.9	1.3	1.2	1.2	.92	.96	.65	.47	.40
12	1.3	1.4	1.7	1.7	1.4	1.2	1.2	1.1	.88	.64	.55	.43
13	1.3	1.2	2.0	1.7	1.5	1.4	1.2	1.2	.90	.64	.54	.39
14	1.4	1.1	1.5	1.8	1.4	1.1	1.2	1.2	.84	.64	.48	.34
15	1.4	1.2	1.5	1.8	1.4	1.0	1.0	.99	.88	.63	.56	.35
16	1.5	1.3	1.5	1.8	1.5	1.0	.99	.92	.85	.62	.50	.41
17	1.6	1.6	1.5	1.6	1.4	1.1	1.1	.99	.89	.62	.44	.44
18	1.4	1.4	1.5	1.6	1.4	1.1	1.2	.92	.89	.62	.45	.42
19	1.3	1.4	2.0	1.5	1.4	1.1	1.4	.97	.84	.61	.55	.41
20	1.3	2.1	2.0	1.3	1.4	1.1	1.1	.91	.83	.60	.50	.40
21	1.2	1.8	1.9	1.4	1.4	1.1	1.1	.72	.82	.60	.48	.41
22	1.3	1.4	1.9	1.4	1.4	1.1	1.1	.79	.82	.60	.47	.43
23	1.4	1.4	1.9	1.5	1.4	1.3	1.2	.82	.84	.59	.46	.43
24	1.5	5.5	15	1.5	1.4	1.1	1.1	.81	.83	.59	.45	.45
25	1.4	2.1	39	1.5	1.4	1.2	1.2	.87	.85	.58	.47	.42
26	1.3	1.3	4.0	1.5	1.5	1.2	.84	.85	.91	.58	.49	.45
27	1.2	1.2	3.0	1.4	1.5	1.2	.86	.89	.89	.57	.49	.43
28	1.3	1.2	2.8	1.4	1.3	1.2	.90	.98	.86	.57	.49	.42
29	1.2	1.2	2.3	1.5	1.3	1.3	.86	.91	.79	.57	.48	.42
30	1.3	1.1	2.2	1.4	---	1.1	.80	1.0	.82	.56	.51	.40
31	1.2	---	2.1	1.4	---	1.2	---	.89	---	.56	.52	---
TOTAL	43.0	46.6	134.2	54.3	39.4	37.2	33.47	28.50	26.23	20.08	15.39	12.58
MEAN	1.39	1.55	4.33	1.75	1.36	1.20	1.12	.92	.87	.65	.50	.42
MAX	1.9	5.5	39	2.4	1.5	1.4	1.5	1.2	1.0	.91	.56	.61
MIN	1.2	1.0	1.0	1.3	1.1	1.0	.80	.72	.78	.56	.44	.34
AC-FT	85	92	266	108	78	74	66	57	52	40	31	25
CAL YR 1983	TOTAL	3004.33	MEAN	8.23	MAX	108	MIN	.62	AC-FT	5960		
WTR YR 1984	TOTAL	490.95	MEAN	1.34	MAX	39	MIN	.34	AC-FT	974		

SANTA YNEZ RIVER BASIN

11134800 MIGUELITO CREEK AT LOMPOC, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: June 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
OCT 18...	1300	1.3	1490	8.1	17.5	--	--	--	--	--	--	--
NOV 16...	1430	1.3	1500	8.4	15.5	--	--	--	--	--	--	--
DEC 19...	1300	2.0	1500	8.2	13.0	670	330	150	72	97	24	2
JAN 19...	1315	1.6	1500	8.4	12.5	--	--	--	--	--	--	--
FEB 23...	1050	1.6	1480	8.3	13.0	--	--	--	--	--	--	--
MAR 26...	1035	1.2	1500	8.2	16.5	--	--	--	--	--	--	--
APR 30...	1240	.88	1550	8.5	19.5	--	--	--	--	--	--	--
JUN 05...	1345	.99	1420	8.2	20.0	--	--	--	--	--	--	--
JUL 03...	1200	.83	1520	8.2	23.0	--	--	--	--	--	--	--
AUG 01...	1400	.56	1520	8.3	23.0	--	--	--	--	--	--	--
SEP 05...	1200	.41	1500	8.2	21.0	--	--	--	--	--	--	--

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
OCT 18...	--	--	--	--	--	1010	--	--	--	--	--
NOV 16...	--	--	--	--	--	1050	--	--	--	--	--
DEC 19...	2.3	344	340	120	43	--	1000	.62	.51	190	18
JAN 19...	--	--	--	--	--	1030	--	--	--	--	--
FEB 23...	--	--	--	--	--	1100	--	--	--	--	--
MAR 26...	--	--	--	--	--	1060	--	--	--	--	--
APR 30...	--	--	--	--	--	1120	--	--	--	--	--
JUN 05...	--	--	--	--	--	1010	--	--	--	--	--
JUL 03...	--	--	--	--	--	1000	--	--	--	--	--
AUG 01...	--	--	--	--	--	1060	--	--	--	--	--
SEP 05...	--	--	--	--	--	998	--	--	--	--	--

11135800 SAN ANTONIO CREEK AT LOS ALAMOS, CA

LOCATION.--Lat 34°44'36", long 120°16'12", in Los Alamos Grant, Santa Barbara County, Hydrologic Unit 18060009 on left bank 100 ft upstream from bridge on northbound lane of Highway 101 at Los Alamos.

DRAINAGE AREA.--34.9 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 580 ft, from topographic map.

REMARKS.--Records fair. No regulation above station. Pumping for irrigation of about 1,000 acres above station.

AVERAGE DISCHARGE.--14 years, 2.27 ft³/s, 1,640 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,230 ft³/s Mar. 1, 1983, gage height, 11.6 ft, from floodmarks, from rating curve extended above 150 ft³/s on basis of flow-through-culverts measurement of peak flow; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 38 ft³/s, Dec. 25, gage height 1.94 ft, no other peak above base of 30 ft³/s; no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.22	.34	.24	.25	.03					
2		0	.24	.31	.27	.30	.04					
3		0	1.7	.24	.25	.19	.01					
4		0	.77	.26	.24	.21	0					
5		0	.37	.29	.22	.16	0					
6		0	.27	.28	.22	.23	0					
7		0	.26	.29	.15	.27	0					
8		0	.23	.33	.13	.32	0					
9		0	1.8	.43	.18	.38	0					
10		0	.86	.44	.29	.30	0					
11		.12	.52	.39	.21	.42	0					
12		.20	.49	.41	.21	.20	0					
13		.20	.32	.35	.21	.27	0					
14		.08	.33	.32	.50	.70	0					
15		0	.27	.34	.26	.43	0					
16		0	.30	.35	.29	.34	0					
17		0	.25	.35	.24	.37	0					
18		.08	.28	.32	.22	.18	0					
19		.12	.23	.28	.22	.08	0					
20		.85	.27	.21	.16	.14	0					
21		.49	.28	.21	.14	.13	0					
22		.23	.28	.24	.18	.11	0					
23		.22	.30	.25	.18	.12	0					
24		.99	1.1	.24	.17	.16	0					
25		1.1	12	.22	.17	.17	0					
26		.28	.95	.20	.18	.13	0					
27		.24	.92	.21	.18	.08	0					
28		.25	.54	.26	.15	.07	0					
29		.27	.42	.15	.17	.07	0					
30		.26	.39	.17	---	.06	0					
31		---	.39	.23	---	.03	---					
TOTAL	0	5.98	27.55	8.91	6.23	6.87	0.08	0	0	0	0	0
MEAN	0	.20	.89	.29	.21	.22	.003	0	0	0	0	0
MAX	0	1.1	12	.44	.50	.70	.04	0	0	0	0	0
MIN	0	0	.22	.15	.13	.03	0	0	0	0	0	0
AC-FT	0	12	55	18	12	14	.2	0	0	0	0	0
CAL YR 1983	TOTAL	6927.34	MEAN	19.0	MAX	1430	MIN	0	AC-FT	13740		
WTR YR 1984	TOTAL	55.62	MEAN	.15	MAX	12	MIN	0	AC-FT	110		

SAN ANTONIO CREEK BASIN

11136100 SAN ANTONIO CREEK NEAR CASMALIA, CA

LOCATION.--Lat 34°46'56", long 120°31'47", in Jesus Maria Grant, Santa Barbara County, Hydrologic Unit 18060009, on Vandenberg Military Reservation on upstream side of center pile bent of San Antonio Road bridge, 0.7 mi east of junction of San Antonio Road and Lompoc-Casmalia Road, and 3.8 mi south of Casmalia.

DRAINAGE AREA.--135 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Concrete control August 1970 to March 1983. Altitude of gage is 160 ft, from topographic map. Prior to June 27, 1958, at datum 2.00 ft higher.

REMARKS.--Records poor. No regulation above station. Flow affected by pumping from wells along stream for irrigation above station. At times water released to creek from Vandenberg Air Force Base water-treatment plant.

AVERAGE DISCHARGE.--29 years, 6.55 ft³/s, 4,750 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,680 ft³/s Mar. 1, 1983, gage height, 14.32 ft, from rating curve extended above 1,100 ft³/s on basis of slope-area measurement at gage height 12.93 ft; minimum daily, 0.10 ft³/s June 19, 20, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 35 ft³/s Dec. 25, gage height 4.75 ft, no peak above base of 100 ft³/s; minimum daily, 0.53 ft³/s Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	1.4	1.4	2.5	1.7	1.5	.84	.92	.76	.68	1.1	.68
2	1.6	1.2	1.4	2.4	1.8	1.5	.86	.96	.76	.68	1.1	.68
3	1.3	1.2	3.7	2.3	1.9	1.5	.88	.90	.76	.68	1.1	.68
4	1.3	1.2	5.1	2.3	2.0	1.5	.90	.84	.76	.68	1.1	.68
5	1.2	1.2	2.0	2.3	2.0	1.5	.90	.78	.76	.68	1.1	.68
6	1.2	1.2	1.5	2.7	2.0	1.5	.90	.74	.76	.68	1.1	.68
7	1.3	1.2	1.5	2.5	2.0	1.5	.90	.74	.76	.68	1.2	.66
8	1.3	1.2	1.5	2.3	2.0	1.5	.90	.72	.76	.68	1.3	.62
9	1.3	1.2	4.5	2.3	2.1	1.5	.90	.72	.76	.70	1.3	.60
10	1.2	1.2	6.5	2.3	2.2	1.5	.90	.72	.76	.70	1.3	.60
11	1.2	1.5	3.1	2.2	1.8	1.6	.92	.74	.75	.70	1.3	.62
12	1.2	1.5	3.4	2.2	2.2	1.6	.92	.80	.74	.72	1.3	.64
13	1.4	1.5	2.1	2.2	2.3	1.6	.94	.82	.74	.72	1.3	.66
14	1.2	1.3	1.9	2.2	2.0	1.6	.94	.82	.74	.72	1.3	.62
15	1.2	1.3	2.2	2.1	2.1	1.6	.94	.82	.72	.72	1.3	.60
16	1.2	1.3	2.5	2.1	2.3	1.6	.96	.82	.72	.72	1.3	.58
17	1.3	1.4	2.0	2.0	1.9	1.6	.98	.82	.72	.72	1.3	.58
18	1.3	1.4	1.7	2.0	1.6	1.6	1.0	.80	.70	.72	1.2	.60
19	1.3	1.3	1.8	2.0	1.5	1.5	1.1	.84	.70	.80	1.2	.67
20	1.2	2.1	1.8	2.0	1.5	1.5	1.1	.84	.70	1.0	1.2	.63
21	1.2	2.1	1.8	2.0	1.4	1.4	1.1	.84	.70	1.1	1.2	.78
22	1.3	1.6	1.9	1.9	1.8	1.3	1.1	.84	.68	1.2	1.2	.67
23	1.2	1.4	1.8	1.9	1.6	1.2	1.0	.84	.68	1.2	1.2	.79
24	1.2	1.7	2.2	1.9	1.5	1.1	.84	.84	.68	1.2	1.2	.82
25	1.2	5.7	19	1.9	1.5	1.0	.83	.86	.68	1.2	1.2	.71
26	1.2	2.0	8.6	1.8	1.5	.98	.86	.86	.68	1.2	1.1	.71
27	1.2	1.7	5.2	1.8	1.5	.90	.88	.84	.68	1.2	1.0	.65
28	1.2	1.6	3.7	1.9	1.5	.85	.90	.82	.68	1.3	.80	.64
29	1.2	1.5	3.2	1.8	1.5	.84	.86	.80	.68	1.3	.72	.59
30	1.3	1.5	2.6	1.8	---	.84	.90	.80	.68	1.3	.68	.53
31	1.3	---	2.5	1.8	---	.84	---	.76	---	1.2	.68	---
TOTAL	39.6	47.6	104.1	65.4	52.7	42.05	27.95	25.26	21.65	27.78	35.38	19.65
MEAN	1.28	1.59	3.36	2.11	1.82	1.36	.93	.81	.72	.90	1.14	.66
MAX	1.9	5.7	19	2.7	2.3	1.6	1.1	.96	.76	1.3	1.3	.82
MIN	1.2	1.2	1.4	1.8	1.4	.84	.83	.72	.68	.68	.68	.53
AC-FT	79	94	206	130	105	83	55	50	43	55	70	39

CAL YR 1983 TOTAL 14395.8 MEAN 39.4 MAX 2040 MIN 1.1 AC-FT 28550
WTR YR 1984 TOTAL 509.12 MEAN 1.39 MAX 19 MIN .53 AC-FT 1010

11136100 SAN ANTONIO CREEK NEAR CASMALIA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978 to current year.
 CHEMICAL ANALYSES: Water years 1978 to current year.
 pH: December 1981 to September 1983.
 WATER TEMPERATURES: December 1981 to September 1983.

PERIOD OF DAILY RECORD.--
 pH: December 1981 to September 1983.
 WATER TEMPERATURES: December 1981 to September 1983.

INSTRUMENTATION.--Water-quality monitor from December 1981 to September 1983.

EXTREMES FOR PERIOD OF DAILY RECORD.--
 pH: Maximum, 8.8 units Feb. 5, 1983; minimum, 7.2 units Jan. 27, Feb. 25, 26, 1983.
 WATER TEMPERATURES: Maximum recorded, 31.0°C Aug. 7, 1983; minimum recorded, 4.0°C Jan. 8, 9, 1982.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
OCT 04...	1335	1.3	2660	8.0	24.5	--	--	--	--	--	--	--
NOV 09...	1245	1.2	2700	8.3	17.0	610	160	160	51	390	57	7
DEC 01...	1200	1.3	2760	8.1	14.0	--	--	--	--	--	--	--
JAN 06...	1315	2.8	2980	8.0	14.0	--	--	--	--	--	--	--
FEB 02...	1220	2.0	2740	8.1	14.0	720	350	190	59	320	49	5
MAR 02...	1200	1.5	2760	8.3	17.0	--	--	--	--	--	--	--
APR 17...	1100	.98	2750	8.2	19.0	--	--	--	--	--	--	--
MAY 10...	1335	.74	2700	8.4	21.0	580	220	150	51	350	56	7
JUN 08...	1110	.78	2750	7.9	17.0	--	--	--	--	--	--	--
JUL 13...	1210	.72	2720	7.7	21.0	--	--	--	--	--	--	--
AUG 08...	1315	1.4	2680	7.9	20.5	540	140	140	46	380	59	7
SEP 06...	1225	.69	2460	8.0	21.0	--	--	--	--	--	--	--

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
OCT 04...	--	--	--	--	--	1850	--	--	--	--	--
NOV 09...	16	450	310	530	53	--	1800	5.7	.12	2300	80
DEC 01...	--	--	--	--	--	1720	--	--	--	--	--
JAN 06...	--	--	--	--	--	1880	--	--	--	--	--
FEB 02...	15	369	500	410	46	--	1800	5.2	.72	1900	70
MAR 02...	--	--	--	--	--	1830	--	--	--	--	--
APR 17...	--	--	--	--	--	1730	--	--	--	--	--
MAY 10...	15	361	330	480	27	--	1600	4.6	.74	2200	20
JUN 08...	--	--	--	--	--	1660	--	--	--	--	--
JUL 13...	--	--	--	--	--	1640	--	--	--	--	--
AUG 08...	20	397	290	450	51	--	1600	6.0	2.6	2100	50
SEP 06...	--	--	--	--	--	1530	--	--	--	--	--

SANTA MARIA RIVER BASIN

11136800 CUYAMA RIVER BELOW BUCKHORN CANYON, NEAR SANTA MARIA, CA

LOCATION.--Lat 35°01'19", long 120°13'39", in SW 1/4 sec.14, T.11 N., R.32 W., San Luis Obispo-Santa Barbara County line, Hydrologic Unit 18060007, on downstream side of bridge on State Highway 166, 0.7 mi downstream from Buckhorn Canyon, and 13 mi northeast of Santa Maria.

DRAINAGE AREA.--886 mi².

WATER-DISCHARGE RECORDS

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, from topographic map. Prior to October 1959, nonrecording gage at different site and datum.

REVISED RECORDS.--WDR CA-77-1: 1976.

REMARKS.--Records fair. No regulation above station. Pumping from wells along stream for irrigation of several thousand acres in Upper Cuyama Valley.

AVERAGE DISCHARGE.--27 years (water years 1904, 1905, 1960-84) 24.8 ft³/s, 17,970 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,800 ft³/s Feb. 25, 1969, gage height, 13.70 ft, from rating curve extended above 4,900 ft³/s on basis of slope-area measurement at gage height 10.85 ft; maximum gage height, 14.74 ft Mar. 4, 1978; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1400 ft³/s, Dec. 25, gage height, 7.84 ft, no other peak above base of 200 ft³/s; minimum daily, 0.13 ft³/s Sept. 9, 16, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	11	9.3	21	8.2	6.6	5.4	2.5	.58	.53	.37	.17
2	60	13	8.3	18	8.4	6.3	5.5	2.5	.60	.52	.36	.18
3	14	16	19	16	8.5	6.1	5.1	2.3	.61	.49	.34	.17
4	11	9.4	17	15	8.3	6.3	5.0	2.2	.63	.49	.34	.16
5	7.9	7.6	9.7	14	7.8	5.8	5.1	2.1	.64	.50	.33	.16
6	6.3	7.2	8.7	14	7.7	5.8	6.5	1.9	.64	.49	.33	.14
7	6.9	7.0	8.7	13	8.2	6.0	6.3	1.6	.63	.49	.29	.14
8	6.0	7.0	8.5	12	8.2	6.5	5.0	1.5	.70	.49	.28	.14
9	5.6	7.0	15	12	8.0	6.1	4.4	1.4	.77	.49	.29	.13
10	5.6	6.9	18	11	8.7	6.1	4.1	1.4	.79	.49	.28	.14
11	5.4	10	12	11	7.8	5.8	4.0	1.3	.80	.50	.28	.16
12	5.2	9.5	13	11	7.5	6.2	3.7	1.2	.81	.51	.27	.17
13	5.0	7.0	9.2	11	8.0	7.2	3.6	1.1	.78	.52	.26	.15
14	4.8	6.0	7.7	11	8.0	11	3.3	1.1	.78	.51	.24	.15
15	4.6	5.4	6.7	10	7.3	7.8	2.9	1.1	.76	.49	.25	.14
16	4.8	5.2	5.7	10	8.2	6.3	2.8	1.1	.75	.47	.23	.13
17	4.9	8.1	5.1	11	8.0	5.9	2.6	1.1	.71	.46	.23	.13
18	4.6	7.0	4.7	11	7.6	5.2	3.0	.96	.71	.47	.23	1.8
19	4.4	6.4	4.4	10	7.3	5.1	4.1	.91	.72	.47	.22	11
20	4.3	10	4.2	9.8	7.2	5.0	3.4	.87	.70	.43	.27	15
21	4.3	12	4.2	10	7.3	4.9	2.9	.86	.69	.41	.27	8.0
22	4.3	6.8	4.0	11	7.8	4.4	2.6	.82	.66	.43	.26	4.7
23	4.2	6.2	4.0	9.8	7.5	4.5	2.5	.80	.63	.45	.23	1.7
24	4.0	13	8.2	9.1	7.4	4.5	2.4	.77	.59	.41	.23	1.0
25	3.8	22	292	9.0	7.3	4.6	2.3	.79	.54	.39	.23	.68
26	3.7	20	315	9.0	7.0	4.9	2.2	.81	.54	.38	.23	.46
27	3.7	15	132	8.9	7.2	4.6	2.5	.83	.53	.38	.23	.37
28	3.6	12	65	8.5	7.3	4.0	2.7	.86	.53	.39	.22	.31
29	3.7	11	45	8.7	6.9	4.4	2.8	.69	.52	.37	.21	.27
30	5.1	10	34	8.6	---	4.3	2.6	.58	.53	.37	.20	.25
31	5.7	---	26	8.1	---	4.6	---	.56	---	.37	.19	---
TOTAL	260.4	294.7	1124.3	352.5	224.6	176.8	111.3	38.51	19.87	14.16	8.19	48.10
MEAN	8.40	9.82	36.3	11.4	7.74	5.70	3.71	1.24	.66	.46	.26	1.60
MAX	60	22	315	21	8.7	11	6.5	2.5	.81	.53	.37	.15
MIN	3.6	5.2	4.0	8.1	6.9	4.0	2.2	.56	.52	.37	.19	.13
AC-FT	517	585	2230	699	445	351	221	76	39	28	16	95
CAL YR 1983	TOTAL	48986.1	MEAN	134	MAX	6110	MIN	3.4	AC-FT	97160		
WTR YR 1984	TOTAL	2673.43	MEAN	7.30	MAX	315	MIN	.13	AC-FT	5300		

11136800 CUYAMA RIVER BELOW BUCKHORN CANYON, NEAR SANTA MARIA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
OCT												
03...	1600	14	2950	7.9	24.0	--	--	--	--	--	--	--
NOV												
08...	1145	7.2	2620	8.1	15.0	1100	920	260	120	240	31	3
30...	1325	10	2900	8.4	11.5	--	--	--	--	--	--	--
JAN												
04...	1130	15	2820	8.2	12.0	--	--	--	--	--	--	--
FEB												
03...	1215	9.2	2440	8.2	15.0	--	--	--	--	--	--	--
29...	1450	6.3	2520	8.1	21.0	--	--	--	--	--	--	--
APR												
13...	1130	3.7	2400	8.3	24.5	--	--	--	--	--	--	--
MAY												
09...	1140	1.6	1910	8.2	28.0	--	--	--	--	--	--	--
JUN												
07...	1100	.70	1880	8.0	26.0	--	--	--	--	--	--	--
JUL												
12...	1300	.52	1750	8.2	32.0	--	--	--	--	--	--	--
AUG												
09...	1445	.32	1600	8.2	32.0	--	--	--	--	--	--	--
SEP												
05...	1400	.15	1530	8.2	33.0	--	--	--	--	--	--	--

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINIT LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
OCT											
03...	--	--	--	--	--	2510	--	--	--	--	--
NOV											
08...	6.3	229	1200	170	16	--	2200	.62	.05	570	70
30...	--	--	--	--	--	2160	--	--	--	--	--
JAN											
04...	--	--	--	--	--	2290	--	--	--	--	--
FEB											
03...	--	--	--	--	--	2020	--	--	--	--	--
29...	--	--	--	--	--	2040	--	--	--	--	--
APR											
13...	--	--	--	--	--	1940	--	--	--	--	--
MAY											
09...	--	--	--	--	--	1510	--	--	--	--	--
JUN											
07...	--	--	--	--	--	1380	--	--	--	--	--
JUL											
12...	--	--	--	--	--	1280	--	--	--	--	--
AUG											
09...	--	--	--	--	--	1160	--	--	--	--	--
SEP											
05...	--	--	--	--	--	1140	--	--	--	--	--

11137900 HUASNA RIVER NEAR ARROYO GRANDE, CA

LOCATION.--Lat 35°04'40", long 120°22'15", in Huasna Grant, San Luis Obispo County, Hydrologic Unit 18060007, on right bank 300 ft downstream from Huasna Creek, and 12 mi southeast of Arroyo Grande.

DRAINAGE AREA.--103 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 640 ft, from topographic map.

REMARKS.--Records 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.--25 years, 20.7 ft³/s, 15,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,000 ft³/s Jan. 25, 1969, gage height, 15.90 ft, from rating curve extended above 1,300 ft³/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 40 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 25	0930	231	4.21
Dec. 3	1400	231	4.21

Peaks also occurred Dec. 10, 25*.

Minimum daily, 0.14 ft³/s Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.4	4.5	33	6.1	4.3	2.7	1.1	.72	.38	.42	.41
2	2.3	1.7	4.1	28	6.6	4.3	2.6	1.0	.68	.47	.59	.41
3	2.2	1.7	4.9	24	6.6	4.0	2.6	.98	.64	.69	.79	.43
4	2.2	1.9	17	21	6.7	3.5	2.6	.94	.66	.48	1.0	.39
5	2.2	1.9	10	19	6.9	3.0	2.6	.92	.83	.45	.70	.36
6	2.2	1.9	8.5	18	6.7	2.6	2.6	.91	.95	.68	.57	.33
7	2.2	2.0	7.2	17	6.4	2.7	2.5	.90	.64	.38	.48	.81
8	2.2	2.1	7.6	16	6.2	2.7	2.5	.90	.61	.32	.47	.24
9	2.2	2.1	50	16	6.1	2.8	2.5	.89	.65	.34	.46	.18
10	2.2	2.2	86	15	6.7	2.6	2.4	.81	.61	.34	.46	.18
11	2.2	3.9	75	14	6.9	2.5	2.4	.87	.52	.38	.45	.28
12	2.2	4.1	71	13	6.8	2.4	2.4	.97	.52	.36	.44	.65
13	2.2	4.1	48	12	6.9	3.1	2.3	1.2	.58	.33	.43	1.1
14	2.2	4.0	35	11	6.9	6.0	2.3	1.4	.59	.34	.43	.55
15	2.2	3.9	26	10	6.8	4.8	2.4	1.3	.57	.36	.44	.40
16	2.2	3.7	22	10	6.6	4.0	2.5	1.1	.54	.36	.45	.64
17	2.2	4.3	19	9.7	6.6	3.6	2.6	1.0	.53	.39	.41	.69
18	2.2	4.5	17	9.4	6.6	3.3	2.6	.67	.63	.44	.42	1.0
19	1.9	4.3	15	9.1	6.6	3.2	2.7	.65	.57	.46	.45	.45
20	1.5	6.5	14	8.7	6.2	3.0	2.4	.57	.47	.47	.49	.24
21	1.5	6.0	13	8.6	6.0	2.9	2.1	.56	.48	.51	.50	.22
22	1.4	5.3	13	8.3	6.2	2.9	2.2	.60	.51	.61	.49	.23
23	1.3	5.3	12	8.3	5.8	2.8	2.2	.56	.46	.58	.47	.27
24	1.3	4.2	25	8.0	5.3	2.8	2.0	.53	.50	.66	.46	.25
25	1.4	119	450	7.9	4.5	2.8	1.8	.61	.50	.85	.47	.19
26	1.6	30	250	7.7	4.7	2.7	1.6	.56	.64	.39	.48	.16
27	1.3	9.3	150	7.2	4.7	2.7	1.5	.90	.45	.35	.50	.17
28	1.3	8.2	95	7.2	4.5	2.7	1.4	1.3	.40	.40	.47	.18
29	1.4	8.2	65	7.0	4.6	2.7	1.3	1.3	.37	.36	.44	.15
30	1.6	7.3	50	7.0	---	2.7	1.2	1.2	.35	.38	.42	.14
31	1.9	---	40	6.6	---	2.7	---	.82	---	.41	.41	---
TOTAL	59.3	303.8	1748.9	397.7	178.2	98.8	67.5	28.02	17.17	13.92	15.46	11.70
MEAN	1.91	10.1	56.4	12.8	6.14	3.19	2.25	.90	.57	.45	.50	.39
MAX	2.4	119	450	33	6.9	6.0	2.7	1.4	.95	.85	1.0	1.1
MIN	1.3	1.7	4.1	6.6	4.5	2.4	1.2	.53	.35	.32	.41	.14
AC-FT	118	603	3470	789	353	196	134	56	34	28	31	23
CAL YR 1983	TOTAL	33841.59	MEAN	92.7	MAX	2400	MIN	.95	AC-FT	67120		
WTR YR 1984	TOTAL	2940.47	MEAN	8.03	MAX	450	MIN	.14	AC-FT	5380		

NOTE.--No gage-height record Dec. 9 to Jan. 9, Mar. 14 to May 9, Aug. 5 to Sept. 6.

SANTA MARIA RIVER BASIN

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11137900 HUASNA RIVER NEAR ARROYO GRANDE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1979 to current year.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT , 1983					
06...	1200	2.2	825	20.0	557
NOV					
08...	1143	2.1	858	16.0	558
DEC					
06...	1235	6.6	864	14.0	556
FEB , 1984					
08...	1130	6.0	824	14.5	595
MAR					
06...	1430	2.5	809	18.0	531
APR					
11...	1030	2.4	825	17.5	537
MAY					
09...	1100	.88	802	19.0	545
JUN					
04...	1625	.58	852	22.5	568
JUL					
09...	1305	.39	926	23.0	565
31...	1010	.48	930	18.5	594

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM
OCT , 1983											
06...	1200	2.2	825	7.9	20.0	350	85	94	29	50	23

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUN OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
OCT , 1983												
06...	1	1.0	150	44	.4	37	557	570	.40	.43	200	19

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, Hydrologic Unit 18060008, on left bank 2.6 mi upstream from La Brea Creek, and 7 mi east of Siquoc.

DRAINAGE AREA.--281 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1943 to current year. October 1929 to September 1933, at site 0.2 mi 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 Corps of Engineers datum. See WSP 1735 for history of changes prior to Aug. 24, 1951.

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

AVERAGE DISCHARGE.--41 years, 47.0 ft³/s, 34,050 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,200 ft³/s Dec. 6, 1966, gage height, 15.75 ft, from rating curve extended above 1,700 ft³/s on basis of slope-area measurements at gage heights 10.08 ft and 15.75 ft; no flow Nov. 11-18, 1967.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 2, 1938, 11,000 ft³/s, gage height, 8.1 ft, from high-water mark in gage well, at site in use 1929-33, from rating curve extended above 2,800 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 250 ft³/s and maximum (*) from rating curve extended above 300 ft³/s on basis of slope-area measurements at gage heights 7.57 ft, and 11.68 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 25	0300	596	3.58
Dec. 25	1500	*1,630	5.23

Minimum daily discharge, 0.31 ft³/s Sept. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	17	39	88	31	19	14	9.5	2.6	1.7	.93	.80
2	93	28	36	80	32	18	13	9.5	2.6	1.7	.93	.80
3	41	27	48	72	32	18	13	9.5	2.6	1.7	.93	.80
4	28	23	122	64	32	18	12	8.7	2.6	1.7	.93	.80
5	23	22	93	59	30	17	13	8.7	2.6	1.7	.78	.80
6	20	19	64	56	30	17	15	8.0	2.6	1.7	.78	.80
7	17	17	54	51	29	17	15	6.6	2.3	1.7	.78	.70
8	17	17	48	48	30	18	15	6.6	2.1	1.5	.78	.56
9	16	16	49	46	29	18	14	6.6	2.1	1.5	.78	.56
10	15	16	80	43	30	17	13	6.0	2.1	1.5	.90	.69
11	15	16	72	40	30	16	12	4.9	2.1	1.5	.90	.82
12	14	45	66	39	30	15	11	4.9	2.1	1.3	.90	1.0
13	14	48	59	38	29	16	11	4.9	2.3	1.1	.90	.90
14	14	39	51	36	28	22	10	4.9	2.3	.93	.90	.81
15	13	34	45	35	28	24	9.5	4.9	2.3	.93	.90	.66
16	13	30	40	34	28	22	9.5	3.9	2.3	.93	.78	.66
17	13	30	36	34	29	18	9.5	3.9	2.3	.48	.78	.66
18	12	30	35	33	28	17	10	3.9	2.0	.48	.79	.56
19	12	29	33	33	27	16	14	3.6	2.0	.48	.80	.48
20	11	34	32	30	26	15	13	3.6	2.0	.56	.90	.48
21	10	42	32	29	26	16	11	3.6	2.0	.56	.90	.56
22	10	40	30	29	24	15	10	3.6	2.0	.78	1.0	.56
23	10	38	29	28	24	15	9.5	3.6	2.0	1.1	1.0	.66
24	10	39	32	28	22	15	9.5	3.6	2.0	1.1	.93	.66
25	9.5	333	774	28	22	15	9.5	3.2	2.0	.93	.84	.41
26	8.7	137	373	28	22	14	9.5	3.6	2.0	.93	.80	.31
27	8.7	86	230	27	22	14	9.5	2.9	1.7	.93	.90	.41
28	8.0	68	170	27	22	13	9.5	2.9	1.7	.93	.90	.48
29	8.7	57	140	27	20	13	9.5	2.6	1.7	.78	.90	.66
30	9.5	48	110	27	---	13	9.5	2.6	1.7	.93	.89	.56
31	10	---	96	29	---	13	---	2.6	---	.93	.84	---
TOTAL	576.1	1425	3118	1266	792	514	343.5	157.9	64.7	34.99	26.97	19.61
MEAN	18.6	47.5	101	40.8	27.3	16.6	11.4	5.09	2.16	1.13	.87	.65
MAX	93	333	774	88	32	24	15	9.5	2.6	1.7	1.0	1.0
MIN	8.0	16	29	27	20	13	9.5	2.6	1.7	.48	.78	.31
AC-FT	1140	2830	6180	2510	1570	1020	681	313	128	69	53	39
CAL YR 1983	TOTAL	71203.9	MEAN	195	MAX	5000	MIN	8.0	AC-FT	141200		
WTR YR 1984	TOTAL	8338.77	MEAN	22.8	MAX	774	MIN	.31	AC-FT	16540		

11138500 SISQUOC RIVER NEAR SISQUOC, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UHHS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
OCT												
03...	1110	40	1070	8.0	18.0	--	--	--	--	--	--	--
NOV												
08...	1415	17	1040	8.0	17.5	530	330	100	67	55	18	1
30...	1110	45	1090	8.0	17.5	--	--	--	--	--	--	--
JAN												
03...	1325	73	1080	8.2	13.5	--	--	--	--	--	--	--
FEB												
01...	1425	30	1100	8.3	13.5	--	--	--	--	--	--	--
29...	1225	20	1080	8.4	16.5	--	--	--	--	--	--	--
APR												
12...	1400	12	1050	8.8	24.5	--	--	--	--	--	--	--
MAY												
08...	1315	6.9	1090	8.6	26.0	--	--	--	--	--	--	--
JUN												
06...	1345	2.6	1080	8.6	26.5	--	--	--	--	--	--	--
JUL												
24...	1210	1.2	1170	8.4	23.5	--	--	--	--	--	--	--
AUG												
09...	1130	.93	1120	8.3	23.0	--	--	--	--	--	--	--
SEP												
07...	1130	.83	1150	8.2	24.0	--	--	--	--	--	--	--

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
OCT											
03...	--	--	--	--	--	766	--	--	--	--	--
NOV											
08...	2.3	195	410	22	17	--	790	<.10	<.01	150	12
30...	--	--	--	--	--	730	--	--	--	--	--
JAN											
03...	--	--	--	--	--	748	--	--	--	--	--
FEB											
01...	--	--	--	--	--	765	--	--	--	--	--
29...	--	--	--	--	--	801	--	--	--	--	--
APR											
12...	--	--	--	--	--	786	--	--	--	--	--
MAY											
08...	--	--	--	--	--	811	--	--	--	--	--
JUN											
06...	--	--	--	--	--	820	--	--	--	--	--
JUL											
24...	--	--	--	--	--	848	--	--	--	--	--
AUG											
09...	--	--	--	--	--	852	--	--	--	--	--
SEP											
07...	--	--	--	--	--	882	--	--	--	--	--

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

SANTA MARIA RIVER BASIN

11139500 TEPUSQUET CREEK NEAR SISQUOC, CA

LOCATION.--Lat 34°52'21", long 120°14'37", in NE 1/4 sec.9, T.9 N., R.32 W., Santa Barbara County, Hydrologic Unit 18060008, on downstream wingwall of right bridge abutment on Tepusquet Road, 1.1 mi upstream from mouth, and 3 mi east of Sisquoc.

DRAINAGE AREA.--28.7 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 500 ft, from topographic map. Prior to Dec. 9, 1948, at datum 0.9 ft higher.

REMARKS.--Records fair. No regulation above station. Some diversion by pumping from wells along stream to irrigate about 100 acres above gage.

AVERAGE DISCHARGE.--41 years, 1.79 ft³/s, 1,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 788 ft³/s Dec. 6, 1966, gage height, 5.48 ft, from rating curve extended above 220 ft³/s on basis of computation of maximum flow at contracted opening; maximum gage height, 6.33 ft Mar. 1, 1983; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26 ft³/s Dec. 25, gage height, 3.80 ft; no peak above base of 50 ft³/s; minimum daily, 0.05 ft³/s Sept. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.3	1.3	3.3	1.8	1.4	.96	.85	.58	.36	.28	.15
2	1.3	1.1	1.3	3.1	1.8	1.3	1.0	.82	.59	.73	.26	.15
3	1.2	.96	2.2	3.0	1.7	1.3	1.1	.82	.59	.49	.27	.16
4	1.1	.98	2.4	2.8	1.6	1.3	1.2	.81	.51	.46	.26	.14
5	1.2	.84	2.2	2.6	1.5	1.3	1.2	.81	.56	.40	.25	.12
6	1.2	.79	2.1	2.5	1.5	1.4	1.2	.76	.67	.41	.25	.12
7	1.3	.80	2.0	2.4	1.5	1.3	1.1	.76	.74	.37	.25	.11
8	1.3	.73	2.0	2.3	1.5	1.4	1.1	.73	.72	.32	.21	.07
9	1.3	.71	3.6	2.2	1.5	1.3	1.1	.75	.67	.26	.22	.07
10	1.5	.77	6.4	2.3	1.6	1.3	1.1	.79	.63	.19	.23	.10
11	1.5	.83	4.6	2.3	1.6	1.4	.91	.76	.65	.23	.19	.15
12	1.5	.85	4.6	2.4	1.6	1.4	.58	.63	.66	.24	.17	.17
13	1.6	.80	3.7	2.3	1.6	1.6	1.1	.65	.78	.22	.16	.15
14	1.7	.75	3.5	2.3	1.6	1.7	1.2	.70	.82	.19	.18	.13
15	1.7	.70	3.2	2.2	1.6	1.6	1.0	.77	.80	.21	.25	.12
16	1.6	.71	3.1	2.2	1.6	1.6	1.1	.71	.86	.17	.31	.10
17	1.5	.89	2.7	2.1	1.4	1.1	1.2	.63	.85	.18	.23	.06
18	1.5	.74	2.7	2.1	1.5	1.0	1.5	.62	.83	.18	.22	.05
19	1.5	.77	2.6	2.0	1.4	1.0	.97	.61	.86	.19	.24	.09
20	1.5	1.1	2.5	2.0	1.5	1.1	.84	.64	.81	.19	.23	.10
21	1.4	.92	2.5	1.8	1.4	1.1	.74	.56	.75	.16	.24	.11
22	1.4	.86	2.4	1.8	1.4	1.0	.87	.56	.73	.20	.24	.13
23	1.4	.84	2.3	1.8	1.4	1.0	.94	.61	.72	.23	.16	.16
24	1.4	1.1	3.0	1.7	1.4	1.1	.95	.63	.72	.26	.15	.15
25	1.1	1.3	11	1.7	1.4	1.1	.94	.58	.62	.26	.15	.14
26	1.1	1.0	13	1.7	1.4	1.1	.81	.46	.60	.23	.17	.11
27	1.1	1.1	7.1	1.8	1.4	1.0	.80	.50	.56	.24	.18	.10
28	1.1	1.0	4.8	1.8	1.5	1.0	.80	.52	.59	.24	.16	.11
29	1.2	.98	4.0	1.8	1.4	1.0	.81	.58	.25	.25	.16	.08
30	1.1	1.2	3.6	1.8	---	1.0	.84	.58	.53	.34	.17	.08
31	1.0	---	3.4	1.8	---	.95	---	.57	---	.30	.15	---
TOTAL	41.9	27.42	115.8	67.9	44.1	38.15	29.96	20.77	20.25	8.70	6.59	3.48
MEAN	1.35	.91	3.74	2.19	1.52	1.23	1.00	.67	.68	.28	.21	.12
MAX	1.7	1.3	13	3.3	1.8	1.7	1.5	.85	.86	.73	.31	.17
MIN	1.0	.70	1.3	1.7	1.4	.95	.58	.46	.25	.16	.15	.05
AC-FT	83	54	230	135	87	76	59	41	40	17	13	6.9
CAL YR 1983	TOTAL	4111.9	MEAN	11.3	MAX	241	MIN	.70	AC-FT	8160		
WTR YR 1984	TOTAL	425.02	MEAN	1.16	MAX	13	MIN	.05	AC-FT	843		

11140000 SISQUOC RIVER NEAR GAREY, CA

LOCATION.--Lat 34°53'38", long 120°18'20", in SW 1/4 sec.36, T.10 N., R.33 W., Santa Barbara County, Hydrologic Unit 18060008, on downstream side of Santa Maria Mesa Road bridge near left bank, 0.6 mi northeast of Garey, and 3.7 mi downstream from Tepusquet Creek.

DRAINAGE AREA.--471 mi².

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 Santa Barbara County datum. See WSP 1735 for history of changes of main gage prior to Oct. 1, 1959. Oct. 1, 1959, to Dec. 30, 1965, at datum 6.00 ft higher. Since Oct. 1, 1959, supplementary gage on downstream side of bridge near right bank at same datum.

REMARKS.--Records poor. No regulation above station. Pumping from wells along stream for irrigation of about 7,000 acres above station.

AVERAGE DISCHARGE.--44 years, 46.7 ft³/s, 33,830 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,600 ft³/s Mar. 1, 1983, gage height, 11.16 ft; maximum gage height, 13.50 ft Dec. 6, 1966; no flow for several months in each year.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 25	0645	473	4.22
Dec. 25	1730	*2,300	6.14

Minimum, no flow several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	.22	17	62	13	.82						
2	14	.15	13	56	11	.19						
3	3.7	.16	22	51	9.9	.02						
4	7.0	.14	69	48	9.0	0						
5	1.7	0	55	45	8.2	0						
6	1.5	0	42	40	9.0	0						
7	1.1	.20	32	38	9.0	0						
8	.93	.34	27	36	9.0	0						
9	.52	.35	28	34	9.0	0						
10	.68	.31	57	32	9.0	0						
11	.77	.13	61	32	8.2	0						
12	.63	0	51	30	8.2	0						
13	.54	1.6	49	30	8.2	0						
14	.61	3.9	39	28	8.2	0						
15	.54	3.5	32	26	7.4	0						
16	.12	3.1	29	28	7.4	0						
17	.14	3.0	24	26	8.2	0						
18	.49	2.6	23	26	7.4	0						
19	.51	2.0	22	24	6.7	0						
20	.47	2.9	22	23	6.1	0						
21	.36	13	21	21	6.1	0						
22	.17	14	19	19	6.1	0						
23	0	12	18	18	5.5	0						
24	0	12	21	17	5.0	0						
25	.09	202	849	17	5.0	0						
26	.17	98	430	15	3.9	0						
27	.14	54	193	14	3.0	0						
28	.14	38	124	14	3.0	0						
29	.16	28	98	13	2.2	0						
30	0	22	80	12	---	0						
31	0	---	70	12	---	0						
TOTAL	56.18	517.60	2637	887	211.9	1.03	0	0	0	0	0	0
MEAN	1.81	17.3	85.1	28.6	7.31	.033	0	0	0	0	0	0
MAX	19	202	849	62	13	.82	0	0	0	0	0	0
MIN	0	0	13	12	2.2	0	0	0	0	0	0	0
AC-FT	111	1030	5230	1760	420	2.0	0	0	0	0	0	0
CAL YR 1983	TOTAL	116255.26	MEAN	319	MAX	11500	MIN	0	AC-FT	230600		
WTR YR 1984	TOTAL	4310.71	MEAN	11.8	MAX	849	MIN	0	AC-FT	8550		

SANTA MARIA RIVER BASIN

11140600 BRADLEY DITCH NEAR DONOVAN ROAD, AT SANTA MARIA, CA

LOCATION.--Lat 34°58'00", long 120°25'00", in NE 1/4 NE 1/4 NE 1/4 sec.11, T.10 N., R.34 W., Santa Barbara County, on left bank 250 ft upstream from bridge on Donovan Road, and 0.2 mi east of U.S. Highway 101 in Santa Maria.

DRAINAGE AREA.--5.47 mi².

PERIOD OF RECORD.--October 1970 to September 1978, October 1979 to current year.

GAGE.--Water-stage recorder on concrete-lined channel. Altitude of gage is 225 ft, from topographic map. Prior to September 1978, at site 50 ft downstream at same datum.

REMARKS.--Records fair. Extensive channel modification in 1979 water year widened the concrete-lined channel. Natural drainage area altered by levees, which exclude flow from Bradley Canyon.

AVERAGE DISCHARGE.--13 years, 1.47 ft³/s, 1,060 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 539 ft³/s Mar. 1, 1983, gage height, 4.59 ft, from rating curve based on computation of flow in concrete-lined channel; maximum gage height, 5.85 ft Mar. 4, 1978; no flow for several days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 126 ft³/s Oct. 1, stage falling, peak occurred Sept. 30, 1983; maximum peak discharge, 23 ft³/s Nov. 24, gage height, 1.78 ft, no other peak above base of 100 ft³/s; minimum daily, 0.01 ft³/s Nov. 27, Dec. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	5.7	.53	.20	.91	1.3	1.8	1.4	1.0	1.5	2.1	1.0
2	.10	.42	.91	.05	.84	1.9	1.3	2.1	.71	1.6	2.2	1.5
3	.30	.06	4.3	.12	.75	1.5	2.4	2.2	.31	1.2	1.8	1.3
4	.46	.23	.16	.39	1.2	1.7	1.9	1.8	.53	1.1	1.3	.90
5	1.1	.47	.02	.61	1.2	2.1	1.6	1.5	.71	1.1	1.3	.60
6	.70	.10	.02	.07	.98	2.3	1.4	1.0	.79	1.1	1.4	.80
7	.78	.53	.10	.71	1.2	1.6	1.4	2.3	.74	1.2	1.6	.56
8	.87	1.3	.19	.25	.48	1.2	.82	1.3	1.4	1.4	1.4	.93
9	1.1	1.4	7.6	.62	1.3	1.8	.67	1.3	.64	1.6	1.4	1.2
10	.98	1.8	1.0	.93	1.1	1.5	1.5	2.2	1.8	1.7	1.4	1.4
11	2.4	2.5	.19	.71	.11	1.3	1.1	1.5	.93	1.9	1.4	1.3
12	2.2	1.1	.05	1.3	.27	1.2	1.5	1.6	1.1	1.5	1.4	1.3
13	2.2	.10	.02	1.9	.79	2.4	2.1	1.7	1.1	1.6	1.5	.87
14	2.7	.44	.58	1.1	.72	1.1	2.9	.81	.62	2.0	1.6	.82
15	2.2	.54	.15	.93	1.3	.08	3.5	.82	.46	2.2	1.6	.95
16	2.0	.52	.27	.55	1.5	.42	2.6	1.6	.73	2.1	1.9	.83
17	2.3	1.8	.53	.64	.69	1.3	1.9	1.6	.43	2.0	2.1	.51
18	1.8	.41	.40	1.2	.85	1.3	3.9	.92	.32	2.3	2.2	.70
19	1.9	.91	.74	.61	.14	1.3	1.7	1.3	.87	2.4	2.2	1.0
20	2.1	4.0	.34	.88	.83	1.7	.85	.81	1.3	2.1	.90	1.1
21	2.1	.08	.63	1.0	1.2	1.7	1.4	.59	.91	2.3	.40	1.1
22	2.7	.03	1.3	.52	1.7	1.8	.88	.59	1.0	2.6	1.1	1.1
23	1.2	.04	.30	1.1	2.0	2.7	1.5	.96	1.2	2.4	1.3	1.1
24	1.3	5.2	2.3	.98	2.3	2.8	2.4	.48	.95	2.2	1.5	1.1
25	2.5	.43	4.0	1.3	1.7	2.2	2.4	.69	.43	2.0	1.7	1.1
26	2.8	.02	1.1	1.4	1.5	2.5	2.0	.78	.42	2.1	1.9	1.2
27	3.6	.01	2.3	1.2	2.1	2.8	2.4	1.3	.64	2.1	2.1	1.3
28	3.1	.08	.05	1.4	1.5	2.6	2.0	.90	.82	2.2	2.2	1.4
29	3.0	.29	.01	1.3	2.0	2.3	1.4	.46	1.0	2.2	.93	1.3
30	2.2	.64	.01	.92	---	2.4	1.1	.99	1.3	2.0	.60	1.5
31	2.5	---	.06	1.2	---	2.1	---	.89	---	1.9	1.3	---
TOTAL	64.29	31.15	30.16	26.09	33.16	54.90	54.32	38.39	25.16	57.6	47.73	31.77
MEAN	2.07	1.04	.97	.84	1.14	1.77	1.81	1.24	.84	1.86	1.54	1.06
MAX	9.1	5.7	7.6	1.9	2.3	2.8	3.9	2.3	1.8	2.6	2.2	1.5
MIN	.10	.01	.01	.05	.11	.08	.67	.46	.31	1.1	.40	.51
AC-FT	128	62	60	52	66	109	108	76	50	114	95	63
CAL YR 1983	TOTAL	1306.56	MEAN	3.58	MAX	114	MIN	0	AC-FT	2590		
WTR YR 1984	TOTAL	494.72	MEAN	1.35	MAX	9.1	MIN	.01	AC-FT	981		

11141000 SANTA MARIA RIVER AT GUADALUPE, CA

LOCATION.--Lat 34°58'35", long 120°34'15", in Guadalupe Grant, Santa Barbara County, Hydrologic Unit 18060008, on downstream side of bridge on State Highway 1, 0.5 mi north of Guadalupe, and 4.5 mi upstream from mouth.

DRAINAGE AREA.--1,741 mi².

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 National Geodetic Vertical Datum of 1929. Two supplementary gages started in 1956 at various datums and locations. Prior to Aug. 11, 1955, main gage at site 100 ft upstream at same datum NGVD.

REMARKS.--Records poor. Cuyama River regulated since February 1959 by Twitchell Reservoir, capacity, 240,000 acre-ft. 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.

AVERAGE DISCHARGE.--44 years, 31.8 ft³/s, 23,040 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,800 ft³/s Jan. 16, 1952, gage height, 8.18 ft; maximum gage height, 10.00 ft Feb. 26, 1969; no flow for all or parts of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,160 ft³/s Dec. 26, gage height, 6.68 ft; no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	.02	0	.18	.43	.01	.02					
2	.22	3.5	0	.16	.26	.01	.02					
3	0	0	10	.15	.12	.01	.02					
4	0	0	.40	.14	.07	0	.02					
5	0	0	0	.13	.06	0	.02					
6	0	0	0	.12	.05	0	.02					
7	0	.60	0	.12	.05	0	.02					
8	0	5.8	0	.11	.05	0	.02					
9	0	5.0	5.0	.11	.04	0	.02					
10	0	10	.90	.10	.04	0	.02					
11	0	15	.10	.10	.04	0	.02					
12	0	17	0	.10	.04	0	.02					
13	0	13	0	.09	.03	0	.02					
14	0	15	0	.08	.03	0	.02					
15	.08	15	0	.08	.03	0	.02					
16	0	17	0	.07	.03	0	.02					
17	0	18	0	.07	.03	0	.02					
18	0	12	0	.07	.03	0	.01					
19	0	5.8	0	.07	.03	0	.01					
20	0	17	0	.07	.03	0	.01					
21	0	10	0	.07	.04	.02	.01					
22	0	9.0	0	.08	.04	.02	.01					
23	.02	7.9	0	.08	.04	.02	.01					
24	.14	10	0	.09	.04	.02	.01					
25	1.9	36	363	.11	.03	.02	.01					
26	4.2	9.0	1130	.12	.02	.02	.01					
27	2.9	0	5.0	.13	.02	.02	.01					
28	5.0	0	.80	.15	.01	.02	0					
29	2.9	0	.40	.20	.01	.02	0					
30	5.0	0	.27	.32	---	.02	0					
31	0	---	.21	.38	---	.02	---					
TOTAL	25.86	251.62	1516.08	3.85	1.74	0.25	0.44	0	0	0	0	0
MEAN	.83	8.39	48.9	.12	.060	.008	.015	0	0	0	0	0
MAX	5.0	36	1130	.38	.43	.02	.02	0	0	0	0	0
MIN	0	0	0	.07	.01	0	0	0	0	0	0	0
AC-FT	51	499	3010	7.6	3.5	.5	.9	0	0	0	0	0
CAL YR 1983	TOTAL	77874.73	MEAN	213	MAX	12900	MIN	0	AC-FT	154500		
WTR YR 1984	TOTAL	1799.84	MEAN	4.92	MAX	1130	MIN	0	AC-FT	3570		

SANTA MARIA RIVER BASIN

11141050 ORCUTT CREEK NEAR ORCUTT, CA

LOCATION.--Lat 34°53'01", long 120°29'38", in NE 1/4 SW 1/4 SE 1/4 sec.6, T.9 N., R.34 W., Santa Barbara County, Hydrologic Unit 18060008, on right bank, 10 ft upstream from Black Road bridge, 0.2 mi northeast of State Highway 1 and 3.0 mi northwest of Orcutt.

DRAINAGE AREA.--18.5 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1982 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 160 ft, from topographic map.

REMARKS.--Records good. No regulation or diversion above station. Natural flow affected by pumping and return flow from irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,830 ft³/s Mar. 1, 1983, gage height, 7.53 ft, from floodmarks, from rating curve extended above 10 ft³/s on basis of slope-area measurements at gage heights 4.83 ft and 7.53 ft; no flow for several days during October and November 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 32 ft³/s Dec. 9, 25, gage height, 2.53 ft; minimum daily, 0.01 ft³/s for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	.27	.12	.53	.04	.03	.04	.23	.04	.02	.01	.01
2	.04	.15	.06	.39	.03	.02	.07	.25	.07	.01	.01	.01
3	.03	.05	4.1	.09	.04	.03	.17	.23	.06	.01	.01	.01
4	.02	.33	.87	.08	.04	.02	.36	.09	.01	.01	.01	.01
5	.03	.15	.18	.07	.04	.02	.11	.12	.03	.01	.01	.01
6	.03	.05	.09	.07	.05	.04	.08	.04	.02	.01	.01	.01
7	.03	.04	.08	.07	.13	.02	.05	.03	.04	.02	.01	.01
8	.03	.11	.11	.08	.12	.04	.08	.04	.05	.02	.01	.01
9	.02	.21	11	.12	.12	.02	.07	.04	.06	.01	.01	.01
10	.02	.27	.63	.08	.37	.06	.08	.03	.04	.01	.01	.01
11	.02	.39	1.8	.07	.13	.03	.18	.06	.01	.01	.01	.01
12	.08	.21	.42	.94	.08	.02	.12	.04	.06	.01	.01	.01
13	.15	.09	.08	.39	.06	.08	.13	.06	.01	.01	.01	.01
14	.16	.06	.16	.15	.09	1.4	.12	.02	.02	.01	.01	.01
15	.07	.12	.31	.11	.11	.06	.13	.16	.01	.01	.01	.01
16	.23	.35	.31	.11	.06	.07	.03	.07	.02	.01	.01	.03
17	.23	.29	.16	.15	.06	.06	.09	.12	.02	.01	.01	.01
18	.29	.20	.07	.08	.04	.04	.21	.04	.01	.01	.01	.01
19	.23	.13	.06	.06	.04	.02	.27	.04	.01	.01	.01	.01
20	.09	2.0	.06	.08	.03	.06	.23	.04	.01	.01	.01	.01
21	.13	.04	.07	.07	.03	.04	.23	.01	.01	.01	.01	.01
22	.16	.37	.08	.13	.04	.04	.12	.05	.01	.01	.03	.01
23	.12	.11	.06	.15	.04	.01	.02	.07	.01	.01	.03	.02
24	.07	4.9	4.1	.15	.04	.03	.18	.12	.01	.01	.01	.01
25	.09	1.3	13	.08	.03	.02	.11	.11	.01	.01	.01	.01
26	.21	.12	1.6	.06	.03	.01	.08	.09	.01	.01	.01	.01
27	.27	.06	2.7	.05	.03	.04	.11	.08	.01	.01	.01	.01
28	.16	.07	.47	.04	.07	.03	.04	.03	.02	.01	.01	.03
29	.18	.63	.50	.04	.04	.03	.37	.05	.01	.01	.01	.04
30	.18	.31	.31	.04	---	.03	.31	.09	.01	.01	.01	.02
31	.21	---	.53	.04	---	.04	---	.04	---	.01	.01	---
TOTAL	9.08	13.38	44.09	4.57	2.03	2.46	4.19	2.49	0.71	0.34	0.35	0.39
MEAN	.29	.45	1.42	.15	.070	.079	.14	.080	.024	.011	.011	.013
MAX	5.5	4.9	13	.94	.37	1.4	.37	.25	.07	.02	.03	.04
MIN	.02	.04	.06	.04	.03	.01	.02	.01	.01	.01	.01	.01
AC-FT	18	27	87	9.1	4.0	4.9	8.3	4.9	1.4	.7	.7	.8
CAL YR 1983	TOTAL	2237.72	MEAN	6.13	MAX	582	MIN	.01	AC-FT	4440		
WTR YR 1984	TOTAL	84.08	MEAN	.23	MAX	13	MIN	.01	AC-FT	167		

11141050 ORCUTT CREEK NEAR ORCUTT, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: November 1982 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UNHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
OCT 04...	1050	.09	2280	8.0	21.0	--	--	--	--	--	--	--
NOV 09...	1045	.15	1420	8.1	16.5	350	140	76	40	180	52	4
DEC 01...	1025	.10	1280	7.6	12.5	--	--	--	--	--	--	--
JAN 05...	1330	.16	2510	7.8	15.0	--	--	--	--	--	--	--
FEB 02...	1105	.06	2600	7.9	13.0	--	--	--	--	--	--	--
MAR 02...	1055	.13	1910	7.7	17.0	--	--	--	--	--	--	--
APR 16...	1315	.20	1550	8.6	24.5	--	--	--	--	--	--	--
MAY 10...	1210	.12	2150	7.7	21.0	--	--	--	--	--	--	--
JUN 08...	0940	.18	1420	7.7	16.0	--	--	--	--	--	--	--
JUL 13...	1025	.01	2700	7.3	22.0	--	--	--	--	--	--	--
AUG 10...	1110	.01	2770	7.7	21.0	--	--	--	--	--	--	--
SEP 06...	1105	.01	2750	7.9	23.5	--	--	--	--	--	--	--

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LIMITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
OCT 04...	--	--	--	--	--	1300	--	--	--	--	--
NOV 09...	6.1	215	250	190	41	--	920	4.6	3.0	350	26
DEC 01...	--	--	--	--	--	761	--	--	--	--	--
JAN 05...	--	--	--	--	--	1460	--	--	--	--	--
FEB 02...	--	--	--	--	--	1480	--	--	--	--	--
MAR 02...	--	--	--	--	--	1090	--	--	--	--	--
APR 16...	--	--	--	--	--	950	--	--	--	--	--
MAY 10...	--	--	--	--	--	1310	--	--	--	--	--
JUN 08...	--	--	--	--	--	880	--	--	--	--	--
JUL 13...	--	--	--	--	--	1550	--	--	--	--	--
AUG 10...	--	--	--	--	--	1620	--	--	--	--	--
SEP 06...	--	--	--	--	--	1600	--	--	--	--	--

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at crest-stage partial-record stations are presented in the following table. Discharge measurements made at miscellaneous sites are given in separate tables.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage station 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 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 1984

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum Gage height (feet)	Discharge (ft ³ /s)
Bristol Lake basin							
10253000	Gourd Creek near Ludlow, CA	Lat 34°40'35", long 116°02'20" in SW¼ sec.23, T.7 N., R.9 E., Hydrologic Unit 18090208, at culvert on U.S. Highway 66, 8.5 mi southeast of Ludlow.	0.30	1959-74 1976-84	8-25-84	11.16	11
Mojave River basin							
10261800	Reacon Creek at Helendale, CA	Lat 34°45'00", long 117°08'53", in SE¼ sec.29 T.8 N., R.4 W., Hydrologic Unit 18090208, at culvert on county road (formerly U.S. Highway 66 and 91), 0.6 mi northeast of Helendale.	0.72	1959-60 1961-67* 1968-69 1976-84	9-12-84	15.58	63
10262600	Boom Creek near Barstow, CA	Lat 34°54'20", long 116°56'57", NE¼NW¼ sec.2 T.9 N., R.1 W., San Bernardino County, Hydrologic Unit 18090208, at culvert on U.S. Highway I-15, 4.3 mi east of Barstow.	0.24	1956-66 1967-73* 1976-84	9-12-84	9.13	13
Antelope Valley							
10263900	Buckhorn Creek near Valyermo, CA	Lat 34°20'35", long 117°55'13", in SW¼ sec.15, T.3 N., R.10 W., Hydrologic Unit 18090206, at culvert on State Highway 2, Angeles National Forest, 8.1 mi southwest of Valyermo.	0.48	1961-66* 1967-69 1971-73 1977-84	7-30-84	4.70	112
10264530	Pine Creek near Palmdale, CA	Lat 34°36'09", long 118°14'48", in SW¼ sec.15, T.6 N., R.13 W., Hydrologic Unit 18090206, at culvert on Pine Canyon Road, 7.5 mi northwest of Palmdale.	1.37	1959-73 1977-84	12-25-83	10.11	0.08
10264560	Spencer Canyon Creek near Fairmont, CA	Lat 34°46'33", long 118°34'08", in SE¼SW¼ sec.15, T.8 N., R.16 W., Hydrologic Unit 18090206, at culvert on county road, 8.5 mi northwest of Fairmont.	3.60	1959-64 1965-73* 1974 1978-84	--	--	0

Annual maximum discharge at crest-stage partial-record stations during water year 1984--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum	
						Gage height (feet)	Discharge (ft ³ /s)
Franklin Creek basin							
11119530	Franklin Creek at Carpinteria, CA	Lat 34°24'17", long 119°31'05", in Pueblo Lands of Santa Barbara, Santa Barbara County, Hydrologic Unit 18060013, on right bank 20 ft downstream from Malibu Drive bridge, 0.5 mi north of Carpinteria, and 0.9 mi upstream from mouth.	1.81	1970-78* 1981-84	10-1-83	4.50	1,600
Santa Ynez River basin							
11131700	Santa Rita Creek near Lompoc, CA	Lat 34°38'41", long 120°22'09", in Santa Rita Grant, Santa Barbara County, Hydrologic Unit 18060010, on left bank 2.4 mi upstream from mouth and 6.5 mi east of Lompoc.	14.1	1976-79 1981-84	12-25-83	5.72	27
11133700	Purisima Creek near Lompoc, CA	Lat 34°41'34", long 120°25'51", in Purisima Grant, Santa Barbara County, Hydrologic Unit 18060010, on right bank 1.1 mi northeast of junction of Buener Road and Lompoc-Casmalia Road, and 4.0 mi northeast of Lompoc.	4.75	1972-75* 1976-84	12-25-83	2.40	93
11135200	Rodeo-San Pasqual Creek near Lompoc, CA	Lat 34°38'42", long 120°30'57", in Lompoc Grant, Santa Barbara County, Hydrologic Unit 18060010, on left bank 0.1 mi east of Dewolf Avenue at Highway 246 3.3 mi west of Lompoc.	7.80	1971-72* 1973-78 1980-84	12-25-83	1.77	78

*Operated as a continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1984

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
		Atascadero Creek Basin				
Maria Ygnacio Creek	Atascadero Creek	Lat 34°27'34", long 119°47'24", in NW 1/4 SE 1/4 NE 1/4 sec. 3, T.4 N., R.28 W., Santa Barbara County, 0.1 mi upstream from Old San Marcos Pass Road bridge, 300 ft upstream from confluence with East Fork, and 2.5 mi northeast of Goleta.	--	1983	10/04/83 10/17/83 10/22/83 10/28/83 11/04/83 11/10/83 11/16/83 11/25/83 11/30/83 12/08/83 12/15/83 12/23/83 12/28/83 1/06/84 1/13/84 1/26/84 2/02/84 2/08/84 2/14/84 2/23/84 2/29/84 3/09/84 3/16/84 3/23/84 3/30/84 4/06/84 4/13/84 4/20/84 4/26/84 5/04/84 5/11/84 5/18/84 5/25/84 6/01/84 6/07/84 6/15/84 6/21/84 6/28/84 7/06/84 7/13/84 7/20/84 7/26/84 8/02/84 8/10/84 8/17/84 8/23/84 8/30/84 9/06/84 9/13/84 9/21/84 9/26/84	1.03 0.86 0.54 0.57 0.69 0.61 0.76 2.95 0.84 0.82 0.98 0.72 3.40 1.27 1.15 0.84 0.86 0.72 0.66 0.72 0.47 0.58 0.52 0.36 0.35 0.42 0.17 0.20 0.25 0.26 0.15 0.08 0.13 0.27 0.14 0.28 0.30 0.11 0.04 0.01 0.09 0.08 0.02 0.01 0.02 0.22 0.01 0.01 0.23 0.00 0.01

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1984

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Atascadero Creek Basin--continued						
East Fork, Maria Ygnacio Creek	Maria Ygnacio Creek	Lat 34°27'16", long 119°47'26", in NE 1/4 SE 1/4 NE 1/4 sec. 3, T.4 N., R.28 W., Santa Barbara County, 0.1 mi upstream from Old San Marcos Pass Road bridge, 75 ft upstream from confluence with Maria Ygnacio Creek and 2.5 mi northeast of Goleta.	--	1983	10/04/83	0.15
					10/17/83	0.16
					10/22/83	0.16
					10/28/83	0.14
					11/04/83	0.15
					11/10/83	0.15
					11/16/83	0.15
					11/25/83	0.37
					11/30/83	0.22
					12/08/83	0.18
					12/15/83	0.29
					12/28/83	0.64
					1/06/84	0.40
					1/13/84	0.35
					1/26/84	0.21
					2/02/84	0.20
					2/08/84	0.19
					2/14/84	0.16
					2/23/84	0.15
					2/29/84	0.15
					3/09/84	0.15
					3/16/84	0.15
					3/23/84	0.10
					3/30/84	0.06
					4/06/84	0.06
					4/13/84	0.04
					4/20/84	0.04
					4/26/84	0.04
					5/04/84	0.04
					5/11/84	0.04
					5/18/84	0.04
					5/25/84	0.03
					6/01/84	0.05
					6/07/84	0.03
					6/15/84	0.03
					6/21/84	0.04
					6/28/84	0.02
					7/06/84	0.03
					7/13/84	0.03
					7/20/84	0.02
7/26/84	0.02					
8/02/84	0.02					
8/10/84	0.02					
8/17/84	0.01					
8/23/84	0.02					
8/30/84	0.02					
9/03/84	0.02					
9/13/84	0.02					
9/21/84	0.02					
9/26/84	0.01					
Santa Maria River Basin						
Green Canyon Creek	Santa Maria River	Lat 34°57'27", long 120°37'54", Santa Barbara County, at culvert on west Main Street, 3.6 mi southwest of Gualdalupe.	--	1983	10/04/83	4.00
					11/14/83	2.92
					12/01/83	2.80
					1/05/84	4.54
					2/02/84	9.39
					3/02/84	24.4
					4/16/84	11.1
					5/10/84	20.6
					6/07/84	12.5
					7/12/84	15.3
8/10/84	15.6					
9/06/84	22.7					

GROUND WATER
IMPERIAL COUNTY
West Salton Sea Basin (7-22)

SITE NUMBER 332501116025701 LOCAL NUMBER 009S009E04H01S

NORTH OF DESERT SHORES. DRILLED GEOTHERMAL TEST WATER-TABLE WELL. DIAM 2 IN, DEPTH 489 FT, SCREENED 486-489 FT. ALTITUDE OF LSD -105 FT. RECORDS AVAILABLE 1979, 1981 TO CURRENT YEAR.

HIGHEST WATER LEVEL 71.58 FEET BELOW LAND SURFACE DATUM JUN 13, 1979.

LOWEST WATER LEVEL 84.30 FEET BELOW LAND SURFACE DATUM SEP 20, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
SEP 20, 1984	84.30

Arroyo Seco Valley (7-37)

SITE NUMBER 331603114550601 LOCAL NUMBER 010S019E25R01S

ABOUT 6 MI NORTHWEST OF HWY 78 AND WEST OF MIDWAY ROAD. DRILLED WATER-TABLE WELL. DIAM 8 IN, DEPTH UNKNOWN. ALTITUDE OF LSD 820 FT. RECORDS AVAILABLE 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 194.23 FEET BELOW LAND SURFACE DATUM JAN 22, 1981.

LOWEST WATER LEVEL 194.89 FEET BELOW LAND SURFACE DATUM SEP 30, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
SEP 18, 1984	195.28 S

SITE NUMBER 331659114481001 LOCAL NUMBER 010S021E30C01S

IN MILPITAS WASH, WEST OF OGILBY ROAD. DRILLED OBSERVATION WATER-TABLE WELL. DIAM 1.25 IN, DEPTH 70.1 FT. ALTITUDE OF LSD 485 FT. RECORDS AVAILABLE 1972, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 29.90 FEET BELOW LAND SURFACE DATUM SEP 18, 1984.

LOWEST WATER LEVEL 42.42 FEET BELOW LAND SURFACE DATUM AUG 24, 1972.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
SEP 18, 1984	29.90

East Salton Sea Basin (7-33)

SITE NUMBER 331144115231501 LOCAL NUMBER 011S015E23H01S

EAST MESA AREA NEAR SIPHON 3 ON COACHELLA CANAL. DRILLED DOMESTIC WELL. DIAM 12 IN, DEPTH 550 FT IN 1958. ALTITUDE OF LSD 120 FT. RECORDS AVAILABLE 1963, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 20.68 FEET BELOW LAND SURFACE DATUM JAN 10, 1979.

LOWEST WATER LEVEL 35.70 FEET BELOW LAND SURFACE DATUM SEP 17, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
SEP 17, 1984	35.70

S Nearby, pumping.

IMPERIAL COUNTY--Continued

Ocotillo Valley (7-25)

SITE NUMBER 33070116003501 LOCAL NUMBER 0125009E23D01S

ABOUT 0.5 MI SOUTH OF HWY 78 AND 0.75 MI NORTH OF SAN FELIPE CREEK. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM. DIAM 14 IN, DEPTH 580 FT. ALTITUDE OF LSD -15 FT. RECORDS AVAILABLE 1953-58, 1961-68, 1978, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 64.17 FEET BELOW LAND SURFACE DATUM DEC 15, 1953.

LOWEST WATER LEVEL 168.50 FEET BELOW LAND SURFACE DATUM JUL 22, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
SEP 17, 1984	152.11

Amos Valley (7-34)

SITE NUMBER 330842115174701 LOCAL NUMBER 0125016E09A01S

ABOUT 14 MI EAST OF CALIPATRIA ON NILAND-GLAMIS ROAD. DRILLED IRRIGATION WATER-TABLE WELL. DIAM 12 IN, DEPTH 1000 FT, PERFORATED 150-1000 FT. ALTITUDE OF LSD 220 FT. RECORDS AVAILABLE 1979, 1981 TO CURRENT YEAR.

HIGHEST WATER LEVEL 126.33 FEET BELOW LAND SURFACE DATUM AUG 02, 1979.

LOWEST WATER LEVEL 134.83 FEET BELOW LAND SURFACE DATUM MAR 04, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
SEP 17, 1984	133.88

SITE NUMBER 325955115042601 LOCAL NUMBER 0135018E33A01S

IN GLAMIS. DRILLED DOMESTIC WATER-TABLE WELL. DIAM UNKNOWN, DEPTH 660 FT. ALTITUDE OF LSD 335 FT. RECORDS AVAILABLE 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 193.45 FEET BELOW LAND SURFACE DATUM AUG 26, 1981.

LOWEST WATER LEVEL 198.90 FEET BELOW LAND SURFACE DATUM FEB 11, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
SEP 17, 1984	227.84 R

Imperial Valley (7-30)

SITE NUMBER 324851115505901 LOCAL NUMBER 0155011E32R01S

ABOUT 1.5 MI NORTH OF PLASTER CITY. DRILLED UNUSED WATER-TABLE WELL. DIAM 1.25 IN, DEPTH 152 FT, PERFORATED 138-140 FT. WELL FILLED IN TO 145.8 FT IN 1974. ALTITUDE OF LSD 65 FT. RECORDS AVAILABLE 1964, 1974, 1976 TO CURRENT YEAR.

HIGHEST WATER LEVEL 49.90 FEET BELOW LAND SURFACE DATUM APR 13, 1984.

LOWEST WATER LEVEL 101.00 FEET BELOW LAND SURFACE DATUM MAR 19, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1983	50.34	APR 13, 1984	49.90

R Recently, pumped.

GROUND WATER

IMPERIAL COUNTY--Continued

Imperial Valley (7-30)

SITE NUMBER 325114115335201 LOCAL NUMBER 015S014E18C015

IN IMPERIAL. DRILLED UNUSED WATER-TABLE WELL. DIAM 8 IN, DEPTH 500 FT IN 1950, 379.02 FT IN 1970, PERFORATED 140-440 FT. ALTITUDE OF LSD -64.97 FT. RECORDS AVAILABLE 1950, 1961, 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2.61 FEET BELOW LAND SURFACE DATUM OCT 16, 1979.

LOWEST WATER LEVEL 7.96 FEET BELOW LAND SURFACE DATUM MAR 07, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1983	7.45	JAN 09, 1984	7.70	MAY 01, 1984	7.36	JUL 19, 1984	7.59
NOV 09	7.51	FEB 07	7.61	29	7.41	AUG 16	7.58
DEC 16	7.60	APR 03	7.50	JUN 27	7.50	SEP 14	7.51

Ogilby Valley (7-35)

SITE NUMBER 325255114514301 LOCAL NUMBER 015S020E04R015

ABOUT 0.04 MI NORTH OF GOLD ROCK RANCH. DRILLED DOMESTIC WATER-TABLE WELL. DIAM 14 IN, DEPTH 720 FT. ALTITUDE OF LSD 505 FT. RECORDS AVAILABLE 1981 TO CURRENT YEAR.

HIGHEST WATER LEVEL 388.38 FEET BELOW LAND SURFACE DATUM SEP 30, 1982.

LOWEST WATER LEVEL 388.80 FEET BELOW LAND SURFACE DATUM AUG 26, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
SEP 18, 1984	391.67 R

SITE NUMBER 324920114492201 LOCAL NUMBER 015S020E25N015

ABOUT 1 MI NORTHEAST OF OGILBY. DRILLED UNUSED WATER-TABLE WELL. DIAM 8 IN, DEPTH 473 FT. ALTITUDE OF LSD 400 FT. RECORDS AVAILABLE 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 283.34 FEET BELOW LAND SURFACE DATUM SEP 18, 1984.

LOWEST WATER LEVEL 285.53 FEET BELOW LAND SURFACE DATUM JAN 11, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
SEP 18, 1984	283.34

R Recently, pumped.

GROUND WATER

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IMPERIAL COUNTY--Continued

Coyote Wells Valley (7-29)

SITE NUMBER 324550115595201 LOCAL NUMBER 0165009E24D01S

ABOUT 2 MI NORTH OF OCOTILLO. BORED UNUSED WATER-TABLE WELL IN SAND AND CLAY OF QUATERNARY AGE.
DIAM 2 IN, DEPTH 150 FT, CASED TO 145.5 FT, SAND POINT 145.5-149 FT. ALTITUDE OF LSD 382 FT.
RECORDS AVAILABLE 1976 TO CURRENT YEAR.

HIGHEST WATER LEVEL 103.86 FEET BELOW LAND SURFACE DATUM APR 28, 1977.

LOWEST WATER LEVEL 105.20 FEET BELOW LAND SURFACE DATUM APR 20, 1984

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25, 1983	105.10	APR 20, 1984	105.20

WATER QUALITY DATA

LOCAL IDENT- I- FIER	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM		
0165009E24D01S	84-04-20	800	8.7	27.0	37	0	9.4	3.3	150	89		
SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
11	3.6	99	140	92	1.0	15	470	1.1	.02	410	8	3

SITE NUMBER 324518115591501 LOCAL NUMBER 0165009E24R01S

ABOUT 1 MI NORTH OF OCOTILLO. BORED UNUSED WATER-TABLE WELL IN SAND AND CLAY OF QUATERNARY AGE.
DIAM 2 IN, DEPTH 105 FT, CASED TO 101.5 FT, SAND POINT 98-101.5 FT. ALTITUDE OF LSD 335 FT. RECORDS
AVAILABLE 1976 TO CURRENT YEAR.

HIGHEST WATER LEVEL 58.00 FEET BELOW LAND SURFACE DATUM NOV 17, 1976.

LOWEST WATER LEVEL 60.23 FEET BELOW LAND SURFACE DATUM SEP 22, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25, 1983	60.07	APR 13, 1984	59.77	APR 20, 1984	59.83

WATER QUALITY DATA

LOCAL IDENT- I- FIER	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM		
0165009E24R01S	84-04-20	670	8.6	26.0	42	0	10	4.2	120	84		
SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
8	5.6	96	95	84	.80	17	390	.72	.02	270	7	6

GROUND WATER

IMPERIAL COUNTY--Continued

Imperial Valley (7-30)

SITE NUMBER 324603115400501 LOCAL NUMBER 016S011E23B01S

ABOUT 3.5 MI SOUTHEAST OF PLASTER CITY. AUGERED UNUSED WATER-TABLE WELL. DIAM 1.25 IN, DEPTH 127 FT IN 1964, 114.7 FT IN 1974, PERFORATED 121-123 FT. ALTITUDE OF LSD 30 FT. RECORDS AVAILABLE 1964, 1974, 1976 TO CURRENT YEAR.

HIGHEST WATER LEVEL 39.34 FEET BELOW LAND SURFACE DATUM APR 25, 1978.

LOWEST WATER LEVEL 101.17 FEET BELOW LAND SURFACE DATUM MAR 19, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 1983	40.96	APR 12, 1984	39.67

Yuma Valley (7-36)

SITE NUMBER 324444114385901 LOCAL NUMBER 016S022E21R01S

ABOUT 1 MI NORTH OF COLORADO RIVER, NORTHWEST OF YUMA, ARIZONA. DRILLED UNUSED WATER-TABLE WELL. DIAM 1.25 IN, DEPTH 157 FT, PERFORATED 128 FT. ALTITUDE OF LSD 128 FT. RECORDS AVAILABLE 1964, 1967, 1975 TO CURRENT YEAR.

HIGHEST WATER LEVEL 4.66 FEET BELOW LAND SURFACE DATUM SEP 20, 1983.

LOWEST WATER LEVEL 12.67 FEET BELOW LAND SURFACE DATUM JAN 05, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
SEP 18, 1984	6.96

SITE NUMBER 324656114345001 LOCAL NUMBER 016S023E08E01S

NEAR INTERSECTION OF ROSS AND FISHER ROADS. DRILLED UNUSED WATER-TABLE WELL. DIAM 8 IN, DEPTH 500 FT, PERFORATED 110-141 FT. ALTITUDE OF LSD 130 FT. RECORDS AVAILABLE 1968, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 6.53 FEET BELOW LAND SURFACE DATUM SEP 19, 1983.

LOWEST WATER LEVEL 9.15 FEET BELOW LAND SURFACE DATUM JAN 11, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
SEP 18, 1984	7.12

IMPERIAL COUNTY--Continued

Coyote Wells Valley (7-29)

SITE NUMBER 324118115552101 LOCAL NUMBER 117S010E11H02S

SOUTHEAST OF OCOTILLO ALONG HWY 98 IN YUMA ESTATES. DRILLED DOMESTIC WATER-TABLE WELL IN SAND AND CLAY. DIAM 4 IN, DEPTH 344 FT. ALTITUDE OF LSD 376 FT. RECORDS AVAILABLE 1973, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 165.00 FEET BELOW LAND SURFACE DATUM MAR 01, 1973.

LOWEST WATER LEVEL 189.87 FEET BELOW LAND SURFACE DATUM OCT 07, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1983	187.34	APR 13, 1984	186.39 R

WATER QUALITY DATA

LOCAL IDENT- I- FIER	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM
01/S010E11H02S	84-04-19	475	8.0	30.0	71	0	21	4.6	72	67

SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LILITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
4	3.9	123	52	44	.50	19	290	<.10	.02	160	21	3

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

INYO COUNTY

Owens Valley (6-12)

SITE NUMBER 372527118204601 LOCAL NUMBER 006S033E15H01M

ABOUT 1 MI NORTH OF LAWS. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM. DIAM 12 IN, DEPTH 113 FT, PERFORATED 91-111 FT. ALTITUDE OF LSD 4125.4 FT. MEASUREMENTS FURNISHED BY LOS ANGELES DEPARTMENT OF WATER AND POWER; MEASURED PERIODICALLY BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1928 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1.00 FEET BELOW LAND SURFACE DATUM NOV 15, 1945.

LOWEST WATER LEVEL 43.90 FEET BELOW LAND SURFACE DATUM NOV 01, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1983	7.6	JAN 17, 1984	6.74	MAY 14, 1984	13.7	SEP 14, 1984	13.0
NOV 14	7.5	FEB 17	7.5	JUN 18	15.6		
DEC 16	7.3	MAR 16	7.9	JUL 13	16.8		
JAN 16, 1984	7.2	APR 13	12.0	AUG 13	13.5		

R Recently, pumped.

GROUND WATER

INYO COUNTY--Continued

Owens Valley (6-12)

1983 Water Year
(Not Previously Published)

WELL 006S033E21A01M

SITE NUMBER 372506118210201

ABOUT 4 MI NORTH OF BISHOP, AND WEST OF HIGHWAY 6 IN CHALFANT VALLEY. DRILLED WATER-TABLE OBSERVATION WELL IN VALLEY-FILL DEPOSITS. DIAM 6 IN, DEPTH 28 FT, PERFORATED 16-26 FT. ALTITUDE OF LSD 4120.89 FT. MEASURED BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.09 FEET BELOW LAND SURFACE DATUM FEB 13, 1984.

LOWEST WATER LEVEL 15.66 FEET BELOW LAND SURFACE DATUM SEP 24, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 23, 1983	12.16	MAY 26, 1983	12.04	JUN 09, 1983	12.17	JUL 13, 1983	12.32

WELL 006S033E21A01M

SITE NUMBER 372506118210201

ABOUT 4 MI NORTH OF BISHOP, AND WEST OF HIGHWAY 6 IN CHALFANT VALLEY. DRILLED WATER-TABLE OBSERVATION WELL IN VALLEY-FILL DEPOSITS. DIAM 6 IN, DEPTH 28 FT, PERFORATED 16-26 FT. ALTITUDE OF LSD 4120.89 FT. MEASURED BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.09 FEET BELOW LAND SURFACE DATUM FEB 13, 1984; FEB 21, 1984.

LOWEST WATER LEVEL 15.66 FEET BELOW LAND SURFACE DATUM SEP 24, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20, 1983	11.36	NOV 28, 1983	10.89	JAN 06, 1984	10.48	MAR 06, 1984	10.25
21	11.39	29	10.87	07	10.48	07	10.30
22	11.39	30	10.83	08	10.49	08	10.30
23	11.33	DEC 01	10.83	09	10.53	09	10.32
24	11.39	02	10.81	10	10.49	10	10.31
25	11.39	03	10.69	11	10.54	11	10.28
26	11.36	04	10.83	12	10.47	12	10.28
27	11.31	05	10.83	13	10.39	13	10.25
28	11.35	06	10.82	FEB 04	10.20	14	10.35
29	11.35	07	10.75	05	10.21	15	10.32
30	11.30	08	10.70	06	10.23	16	10.39
31	11.30	09	10.63	07	10.19	17	10.43
NOV 01	11.29	10	10.72	08	10.18	18	10.41
02	11.33	11	10.61	09	10.15	19	10.38
03	11.31	12	10.72	10	10.24	20	10.33
04	11.28	13	10.65	11	10.24	21	10.30
05	11.27	14	10.61	12	10.23	22	10.39
06	11.28	15	10.58	13	10.09	23	10.42
07	11.25	16	10.60	14	10.26	24	10.35
08	11.29	17	10.63	15	10.22	25	10.38
09	11.24	18	10.61	16	10.17	26	10.27
10	11.21	19	10.53	17	10.28	27	10.49
11	11.17	20	10.53	18	10.21	28	10.50
12	11.17	21	10.58	19	10.27	29	10.42
13	11.17	22	10.58	20	10.24	30	10.46
14	11.21	23	10.58	21	10.09	31	10.40
15	11.17	24	10.58	22	10.25	APR 01	10.48
16	11.11	25	10.52	23	10.23	02	10.53
17	11.02	26	10.55	24	10.17	03	10.54
18	11.12	27	10.50	25	10.27	04	10.49
19	11.05	28	10.63	26	10.30	05	10.56
20	10.94	29	10.62	27	10.26	06	10.63
21	11.04	30	10.56	28	10.22	07	10.74
22	11.04	31	10.50	29	10.22	08	10.69
23	11.03	JAN 01, 1984	10.59	MAR 01	10.26	09	10.78
24	10.93	02	10.57	02	10.25	10	10.69
25	10.96	03	10.51	03	10.27	11	10.81
26	11.01	04	10.50	04	10.29	12	10.87
27	10.92	05	10.45	05	10.28	13	10.92

GROUND WATER

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INYO COUNTY--Continued

Owens Valley (6-12)

WELL 006S033E21A01M

SITE NUMBER 372506118210201

-- CONTINUED

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR 14, 1984	10.93	MAY 27, 1984	12.48	JUL 09, 1984	13.50	AUG 21, 1984	15.42
15	10.96	28	12.48	10	13.50	22	15.43
16	10.96	29	12.48	11	13.50	23	15.42
17	11.00	30	12.48	12	13.50	24	15.42
18	11.04	31	12.70	13	13.50	25	15.43
19	11.10	JUN 01	12.74	14	14.56	26	15.47
20	11.15	02	12.77	15	14.56	27	15.48
21	11.19	03	12.80	16	14.56	28	15.49
22	11.23	04	12.82	17	14.56	29	15.50
23	11.23	05	12.87	18	14.56	30	15.45
24	11.23	06	12.89	19	14.56	31	15.46
25	11.27	07	12.96	20	14.56	SEP 01	15.51
26	11.30	08	13.01	21	14.56	02	15.51
27	11.38	09	13.03	22	14.56	03	15.52
28	11.44	10	13.08	23	14.56	04	15.52
29	11.46	11	13.10	24	15.04	05	15.54
30	11.48	12	13.14	25	15.04	06	15.48
MAY 01	11.48	13	13.19	26	15.07	07	15.54
02	11.48	14	13.23	27	15.08	08	15.57
03	11.57	15	13.30	28	15.10	09	15.54
04	11.59	16	13.34	29	15.13	10	15.48
05	11.64	17	13.37	30	15.13	11	15.51
06	11.70	18	13.40	31	15.15	12	15.59
07	11.78	19	13.44	AUG 01	15.16	13	15.59
08	11.79	20	13.46	02	15.19	14	15.57
09	11.80	21	13.49	03	15.20	15	15.57
10	11.82	22	13.50	04	15.20	16	15.61
11	11.87	23	13.50	05	15.24	17	15.62
12	11.91	24	13.50	06	15.29	18	15.61
13	11.94	25	13.50	07	15.30	19	15.58
14	11.97	26	13.50	08	15.30	20	15.51
15	12.08	27	13.50	09	15.31	21	15.52
16	12.12	28	13.50	10	15.34	22	15.56
17	12.15	29	13.50	11	15.33	23	15.58
18	12.20	30	13.50	12	15.35	24	15.66
19	12.23	JUL 01	13.50	13	15.36	25	15.62
20	12.24	02	13.50	14	15.35	26	15.63
21	12.30	03	13.50	15	15.38	27	15.66
22	12.36	04	13.50	16	15.39	28	15.65
23	12.38	05	13.50	17	15.39	29	15.64
24	12.40	06	13.50	18	15.38	30	15.54
25	12.44	07	13.50	19	15.39		
26	12.46	08	13.50	20	15.40		

SITE NUMBER 372318118241101 LOCAL NUMBER 006S033E31D01M

ABOUT 1 MI NORTHWEST OF BISHOP. DRILLED UNUSED WATER-TABLE WELL. DIAM 16 IN, DEPTH 798 FT, CASED TO 785 FT, PERFORATED 34-46, 47-66, 68-86, 422-431, 440-449, 454-501, 600-630, 640-643, 681-701, 704-735, 742-750 FT. ALTITUDE OF LSD 4157.15 FT. MEASUREMENTS FURNISHED BY LOS ANGELES DEPARTMENT OF WATER AND POWER; MEASURED PERIODICALLY BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1929 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2.19 FEET BELOW LAND SURFACE DATUM JUN 14, 1956.

LOWEST WATER LEVEL 13.14 FEET BELOW LAND SURFACE DATUM OCT 12, 1931.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04, 1983	5.2	JAN 17, 1984	4.75	MAY 03, 1984	5.0	SEP 05, 1984	5.1
NOV 01	4.8	FEB 02	5.1	JUN 05	4.9		
DEC 02	4.9	MAR 01	4.9	JUL 02	4.6		
JAN 09, 1984	4.8	APR 05	5.2	AUG 06	5.1		

GROUND WATER

INYO COUNTY--Continued

Owens Valley (6-12)

SITE NUMBER 372247118241101 LOCAL NUMBER 006S033E31M01M

ABOUT 0.74 MI SOUTH OF DIXON LANE AND 75 FT SOUTH OF BISHOP CREEK CANAL. DRILLED PUBLIC SUPPLY WATER-TABLE WELL. DIAM 16 IN, DEPTH 565 FT, PERFORATED 90-150, 560-565 FT. ALTITUDE OF LSD 4157.6 FT. MEASUREMENTS FURNISHED BY LOS ANGELES DEPARTMENT OF WATER AND POWER; MEASURED PERIODICALLY BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1920, 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.3 FEET BELOW LAND SURFACE DATUM SEP 02, 1983.

LOWEST WATER LEVEL 7.69 FEET BELOW LAND SURFACE DATUM JAN 15, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 1983	1.7	JAN 17, 1984	6.52	MAY 01, 1984	3.5	SEP 04, 1984	2.8
NOV 01	1.9	FEB 02	2.1	JUN 04	3.7		
DEC 01	4.0	MAR 01	2.6	JUL 02	3.3		
JAN 04, 1984	2.1	APR 02	3.5	AUG 06	3.5		

WELL 007S033E21L01M

SITE NUMBER 371925118213101

ABOUT 3 MI SOUTHEAST OF BISHOP, OFF OF HIGHWAY 395 AND WARM SPRINGS RD. DRILLED WATER-TABLE WELL IN FLUVIAL AND LACUSTRINE VALLEY-FILL DEPOSITS. DIAM 8 IN, DEPTH 56 FT, PERFORATED 16-56 FT. ALTITUDE OF LSD 4059.17 FT. MEASURED BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 6.37 FEET BELOW LAND SURFACE DATUM MAR 26, 1984.

LOWEST WATER LEVEL 7.73 FEET BELOW LAND SURFACE DATUM SEP 13, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 23, 1984	6.63	APR 02, 1984	6.50	MAY 11, 1984	6.65	JUN 19, 1984	6.82
24	6.61	03	6.53	12	6.68	20	6.83
25	6.61	04	6.54	13	6.72	21	6.86
26	6.61	05	6.57	14	6.74	22	6.90
27	6.59	06	6.59	15	6.70	23	6.94
28	6.57	07	6.63	16	6.81	24	6.98
29	6.55	08	6.65	17	6.82	25	7.01
MAR 01	6.55	09	6.69	18	6.83	26	7.03
02	6.54	10	6.69	19	6.84	27	7.05
03	6.53	11	6.71	20	6.85	28	7.08
04	6.53	12	6.72	21	6.87	29	7.11
05	6.53	13	6.72	22	6.89	30	7.13
06	6.52	14	6.71	23	6.89	JUL 01	7.16
07	6.52	15	6.70	24	6.89	02	7.17
08	6.52	16	6.70	25	6.90	03	7.19
09	6.52	17	6.70	26	6.89	04	7.20
10	6.52	18	6.72	27	6.92	05	7.21
11	6.52	19	6.73	28	6.93	06	7.23
12	6.51	20	6.73	29	6.94	07	7.24
13	6.50	21	6.71	30	6.94	08	7.26
14	6.48	22	6.69	31	6.92	09	7.28
15	6.46	23	6.66	JUN 01	6.93	10	7.29
16	6.46	24	6.63	02	6.91	11	7.31
17	6.45	25	6.63	03	6.90	12	7.30
18	6.44	26	6.59	04	6.87	13	7.31
19	6.43	27	6.56	05	6.87	14	7.32
20	6.41	28	6.53	06	6.87	15	7.33
21	6.40	29	6.50	07	6.90	16	7.34
22	6.40	30	6.46	08	6.91	17	7.35
23	6.40	MAY 01	6.43	09	6.92	18	7.35
24	6.39	02	6.41	10	6.93	19	7.37
25	6.39	03	6.39	11	6.93	20	7.37
26	6.37	04	6.39	12	6.94	21	7.37
27	6.41	05	6.41	13	6.95	22	7.38
28	6.43	06	6.45	14	6.93	23	7.39
29	6.42	07	6.49	15	6.91	24	7.40
30	6.44	08	6.52	16	6.89	25	7.40
31	6.44	09	6.55	17	6.86	26	7.40
APR 01	6.47	10	6.59	18	6.83	27	7.40

INYO COUNTY--Continued

Owens Valley (6-12)

CONTINUED

WELL 007S033E21101M

SITE NUMBER 371925110213101

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUL 28, 1984	7.40	AUG 14, 1984	7.40	AUG 31, 1984	7.62	SEP 17, 1984	7.71
29	7.40	15	7.40	SEP 01	7.64	18	7.71
30	7.40	16	7.40	02	7.65	19	7.72
31	7.40	17	7.40	03	7.66	20	7.71
AUG 01	7.40	18	7.40	04	7.67	21	7.70
02	7.40	19	7.40	05	7.67	22	7.68
03	7.40	20	7.40	06	7.66	23	7.67
04	7.40	21	7.40	07	7.67	24	7.67
05	7.40	22	7.40	08	7.69	25	7.64
06	7.40	23	7.40	09	7.69	26	7.59
07	7.40	24	7.40	10	7.70	27	7.55
08	7.40	25	7.40	11	7.71	28	7.51
09	7.40	26	7.64	12	7.72	29	7.48
10	7.40	27	7.63	13	7.73	30	7.44
11	7.40	28	7.63	14	7.72		
12	7.40	29	7.62	15	7.71		
13	7.40	30	7.61	16	7.71		

WELL 007S033E34G01M

SITE NUMBER 371702110201501

ABOUT 4 MI SOUTH OF BISHOP AND 2.5 MI EAST OF HIGHWAY 395, ALONG THE OWENS RIVER. DRILLED WATER-TABLE OBSERVATION WELL IN FLUVIAL AND VALLEY-FILL DEPOSITS. DIAM 6 IN, DEPTH 19 FT, PERFORATED 9-19 FT. ALTITUDE OF LSD 4022.38 FT. MEASURED BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.30 FEET BELOW LAND SURFACE DATUM APR 10, 1984.

LOWEST WATER LEVEL 11.63 FEET BELOW LAND SURFACE DATUM SEP 24, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
JUN 08, 1983	10.52	JUL 15, 1983	11.09

GROUND WATER

INYO COUNTY--Continued

Owens Valley (6-12)

WELL 007S033E34G01M

SITE NUMBER 371702118201501

ABOUT 4 MI SOUTH OF BISHOP AND 2.5 MI EAST OF HIGHWAY 395, ALONG THE OWENS RIVER. DRILLED WATER-TABLE OBSERVATION WELL IN FLUVIAL AND VALLEY-FILL DEPOSITS. DIAM 6 IN, DEPTH 19 FT. PERFORATED 9-19 FT. ALTITUDE OF LSD 4022.38 FT. MEASURED BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.30 FEET BELOW LAND SURFACE DATUM APR 10, 1984.

LOWEST WATER LEVEL 11.63 FEET BELOW LAND SURFACE DATUM SEP 24, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1983	11.41	NOV 09, 1983	11.19	DEC 18, 1983	10.92	JAN 26, 1984	10.71
02	11.41	10	11.15	19	10.86	27	10.68
03	11.41	11	11.16	20	10.86	28	10.66
04	11.39	12	11.16	21	10.88	29	10.65
05	11.39	13	11.13	22	10.88	30	10.65
06	11.37	14	11.19	23	10.88	31	10.64
07	11.36	15	11.15	24	10.88	FEB 01	10.64
08	11.35	16	11.12	25	10.82	02	10.66
09	11.35	17	11.08	26	10.84	03	10.64
10	11.37	18	11.14	27	10.83	04	10.62
11	11.37	19	11.11	28	10.90	05	10.62
12	11.33	20	11.03	29	10.88	06	10.63
13	11.29	21	11.10	30	10.84	07	10.61
14	11.32	22	11.10	31	10.84	08	10.60
15	11.32	23	11.11	JAN 01, 1984	10.85	09	10.59
16	11.32	24	11.03	02	10.82	10	10.62
17	11.31	25	11.07	03	10.81	11	10.60
18	11.31	26	11.09	04	10.81	12	10.59
19	11.30	27	11.04	05	10.80	13	10.54
20	11.31	28	11.02	06	10.81	14	10.61
21	11.32	29	11.02	07	10.80	15	10.58
22	11.31	30	11.00	08	10.79	16	10.56
23	11.28	DEC 01	11.01	09	10.80	17	10.60
24	11.33	02	10.99	10	10.78	18	10.56
25	11.30	03	10.95	11	10.80	19	10.56
26	11.27	04	11.03	12	10.75	20	10.55
27	11.26	05	11.02	13	10.72	21	10.49
28	11.28	06	11.00	14	10.76	22	10.56
29	11.26	07	10.98	15	10.77	23	10.54
30	11.26	08	10.95	16	10.72	24	10.51
31	11.25	09	10.93	17	10.74	25	10.55
NOV 01	11.13	10	10.98	18	10.74	26	10.55
02	11.15	11	10.91	19	10.71	27	10.52
03	11.13	12	10.98	20	10.73	28	10.50
04	11.12	13	10.93	21	10.69	29	10.50
05	11.11	14	10.91	22	10.69	MAR 01	10.50
06	11.12	15	10.91	23	10.72	02	10.50
07	11.08	16	10.92	24	10.71	03	10.49
08	11.12	17	10.93	25	10.66	04	10.48

GROUND WATER

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INYO COUNTY--Continued

Owens Valley (6-12)

WELL 007S033E34G01M

SITE NUMBER 371702118201501

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DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 05, 1984	10.48	APR 23, 1984	10.32	JUN 11, 1984	10.81	JUL 30, 1984	11.37
06	10.47	24	10.31	12	10.81	31	11.37
07	10.48	25	10.33	13	10.84	AUG 01	11.37
08	10.47	26	10.32	14	10.85	02	11.39
09	10.47	27	10.33	15	10.88	03	11.40
10	10.46	28	10.33	16	10.88	04	11.40
11	10.45	29	10.34	17	10.88	05	11.41
12	10.44	30	10.32	18	10.89	06	11.43
13	10.42	MAY 01	10.31	19	10.91	07	11.44
14	10.45	02	10.31	20	10.93	08	11.43
15	10.43	03	10.33	21	10.95	09	11.44
16	10.46	04	10.31	22	10.97	10	11.46
17	10.46	05	10.32	23	10.98	11	11.46
18	10.45	06	10.35	24	11.00	12	11.46
19	10.43	07	10.39	25	11.01	13	11.47
20	10.40	08	10.37	26	11.01	14	11.48
21	10.39	09	10.35	27	11.03	15	11.49
22	10.42	10	10.34	28	11.03	16	11.47
23	10.42	11	10.38	29	11.05	17	11.47
24	10.38	12	10.39	30	11.08	18	11.47
25	10.39	13	10.39	JUL 01	11.10	19	11.48
26	10.35	14	10.36	02	11.10	20	11.49
27	10.44	15	10.40	03	11.14	21	11.50
28	10.43	16	10.44	04	11.14	22	11.50
29	10.39	17	10.42	05	11.14	23	11.49
30	10.40	18	10.47	06	11.15	24	11.49
31	10.36	19	10.46	07	11.17	25	11.49
APR 01	10.38	20	10.45	08	11.20	26	11.52
02	10.40	21	10.46	09	11.21	27	11.52
03	10.39	22	10.52	10	11.23	28	11.53
04	10.34	23	10.53	11	11.23	29	11.53
05	10.35	24	10.52	12	11.25	30	11.51
06	10.36	25	10.56	13	11.27	31	11.52
07	10.39	26	10.56	14	11.29	SEP 01	11.55
08	10.34	27	10.60	15	11.30	02	11.55
09	10.37	28	10.62	16	11.29	03	11.55
10	10.30	29	10.64	17	11.29	04	11.56
11	10.36	30	10.66	18	11.29	05	11.56
12	10.35	31	10.64	19	11.31	06	11.55
13	10.36	JUN 01	10.69	20	11.31	07	11.57
14	10.34	02	10.68	21	11.29	08	11.59
15	10.34	03	10.71	22	11.31	09	11.58
16	10.31	04	10.68	23	11.32	10	11.56
17	10.31	05	10.73	24	11.33	11	11.57
18	10.32	06	10.72	25	11.33	12	11.60
19	10.35	07	10.78	26	11.34	13	11.60
20	10.38	08	10.79	27	11.36	14	11.59
21	10.38	09	10.79	28	11.36	15	11.59
22	10.37	10	10.82	29	11.37	16	11.61

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP 17, 1984	11.61	SEP 21, 1984	11.58	SEP 25, 1984	11.61	SEP 29, 1984	11.59
18	11.61	22	11.60	26	11.60	30	11.54
19	11.60	23	11.60	27	11.61		
20	11.58	24	11.63	28	11.60		

GROUND WATER

INYO COUNTY--Continued

Owens Valley (6-12)

WELL 008S033E03G01M

SITE NUMBER 371700118201101

ABOUT 5.5 MI SOUTH OF BISHOP, AND 2 MI EAST OF HIGHWAY 395 ON COLLINS RD AND NEAR THE OWENS RIVER. DRILLED WATER-TABLE WELL IN FLUVIAL AND VALLEY-FILL DEPOSITS. DIAM 4 IN, DEPTH 110 FT, PERFORATED 10-110 FT. ALTITUDE OF LSD 4003.67 FT. MEASURED BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 5.85 FEET BELOW LAND SURFACE DATUM APR 08, 1984; MAY 01, 1984;
MAY 02, 1984; MAY 03, 1984.

LOWEST WATER LEVEL 12.88 FEET BELOW LAND SURFACE DATUM DEC 15, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1983	6.49	NOV 26, 1983	6.59	JAN 06, 1984	6.09	FEB 13, 1984	6.07
20	6.49	27	6.60	07	6.08	14	6.06
21	6.50	28	6.60	08	6.06	15	6.06
22	6.51	29	6.61	09	6.06	16	6.06
23	6.50	30	6.67	10	6.05	17	6.06
24	6.51	DEC 04	6.54	11	6.41	18	6.06
25	6.52	05	6.47	12	6.41	19	6.06
26	6.51	06	6.47	13	6.41	20	6.06
27	6.51	07	6.48	14	6.41	21	6.06
28	6.52	08	6.47	15	6.41	22	6.06
29	6.52	09	6.44	16	6.41	23	6.06
30	6.52	10	6.42	17	6.41	24	5.92
31	6.52	11	6.39	18	6.41	25	5.92
NOV 01	6.52	12	6.39	19	6.41	26	5.92
02	6.72	13	6.38	20	6.12	27	5.92
03	6.71	14	6.38	21	6.11	28	5.91
04	6.69	15	12.88	22	6.11	29	5.90
05	6.68	16	12.88	23	6.10	MAR 01	5.90
06	6.69	17	12.87	24	6.10	02	5.89
07	6.69	18	12.84	25	6.10	03	5.90
08	6.69	19	9.64	26	6.10	04	5.90
09	6.51	20	10.65	27	6.10	05	5.90
10	6.50	21	7.44	28	6.10	06	5.91
11	6.48	22	6.51	29	6.07	07	5.91
12	6.48	23	6.37	30	6.06	08	5.90
13	6.48	24	6.33	31	6.06	09	5.91
14	6.49	25	6.22	FEB 01	6.06	10	5.91
15	6.49	26	6.21	02	6.06	11	5.89
16	6.49	27	6.17	03	6.06	12	5.90
17	6.48	28	6.17	04	6.06	13	5.89
18	6.47	29	6.17	05	6.06	14	5.88
19	6.47	30	6.15	06	6.07	15	5.88
20	6.42	31	6.14	07	6.07	16	5.89
21	6.43	JAN 01, 1984	6.14	08	6.07	17	5.88
22	6.53	02	6.12	09	6.07	18	5.88
23	6.52	03	6.12	10	6.07	19	5.88
24	6.54	04	6.11	11	6.07	20	5.88
25	6.60	05	6.09	12	6.07	21	5.87

GROUND WATER

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INYO COUNTY--Continued

Owens Valley (6-12)

-- CONTINUED

WELL 008S03JE03G01H

SITE NUMBER 371700110201101

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 22, 1984	5.87	APR 24, 1984	5.88	JUL 01, 1984	6.46	AUG 18, 1984	6.72
23	5.87	25	5.89	02	6.47	19	6.72
24	5.87	26	5.89	03	6.50	20	6.71
25	5.87	27	5.89	04	6.52	21	6.71
26	5.86	28	5.88	05	6.53	22	6.71
27	5.88	29	5.86	06	6.53	23	6.68
28	5.88	30	5.86	07	6.53	24	6.65
29	5.88	MAY 01	5.85	08	6.54	25	6.64
30	5.88	02	5.85	09	6.55	SEP 06	6.68
31	5.87	03	5.85	10	6.55	07	6.68
APR 01	5.87	04	5.88	11	6.57	08	6.75
02	5.88	05	5.91	27	6.60	09	6.77
03	5.87	06	5.94	28	6.60	10	6.79
04	5.87	07	5.96	29	6.60	11	6.79
05	5.87	JUN 01	6.20	30	6.60	12	6.82
06	5.87	13	6.32	31	6.60	13	6.86
07	5.87	14	6.32	AUG 01	6.56	14	6.87
08	5.85	15	6.32	02	6.54	15	6.87
09	5.86	16	6.32	03	6.54	16	6.87
10	5.87	17	6.32	04	6.54	17	6.87
11	5.91	18	6.32	05	6.54	18	6.88
12	5.94	19	6.32	06	6.56	19	6.90
13	5.96	20	6.30	07	6.57	20	6.90
14	5.96	21	6.31	08	6.58	21	6.89
15	5.90	22	6.31	09	6.64	22	6.89
16	5.87	23	6.33	10	6.67	23	6.89
17	5.86	24	6.33	11	6.68	24	6.89
18	5.88	25	6.33	12	6.68	25	6.89
19	5.88	26	6.33	13	6.68	26	6.88
20	5.90	27	6.37	14	6.70	27	6.88
21	5.90	28	6.44	15	6.72	28	6.88
22	5.90	29	6.45	16	6.72	29	6.88
23	5.89	30	6.45	17	6.72	30	6.86

WELL 008S03JE26J01H

SITE NUMBER 371340118101501

ABOUT 4 MI NORTH OF BIG PINE, 1 MI EAST OF HIGHWAY 395, AND 1.5 MI NORTHWEST OF KLONDIKE LAKE. DRILLED WATER-TABLE WELL IN FLUVIAL AND VALLEY-FILL DEPOSITS. DIAM 6 IN, DEPTH 20 FT, PERFORATED 8-18 FT. ALTITUDE OF LSD 3958.22 FT. MEASURED BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.22 FEET BELOW LAND SURFACE DATUM JUN 09, 1983.

LOWEST WATER LEVEL 11.05 FEET BELOW LAND SURFACE DATUM SEP 19, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 24, 1983	10.27	JUN 09, 1983	10.22	JUL 14, 1983	10.36	JUL 20, 1983	10.39

GROUND WATER

INYO COUNTY--Continued

Owens Valley (6-12)

WELL 008S033E26J01H

SITE NUMBER 371340118181501

ABOUT 4 MI NORTH OF BIG PINE, 1 MI EAST OF HIGHWAY 395, AND 1.5 MI NORTHWEST OF KLONDIKE LAKE. DRILLED WATER-TABLE WELL IN FLUVIAL AND VALLEY-FILL DEPOSITS. DIAM 6 IN, DEPTH 20 FT, PERFORATED 8-18 FT. ALTITUDE OF LSD 3958.22 FT. MEASURED BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.22 FEET BELOW LAND SURFACE DATUM JUN 09, 1983.

LOWEST WATER LEVEL 11.05 FEET BELOW LAND SURFACE DATUM SEP 19, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24, 1983	10.72	DEC 24, 1983	10.70	MAR 21, 1984	10.36	MAY 06, 1984	10.34
25	10.74	25	10.67	22	10.37	07	10.36
26	10.74	26	10.70	23	10.37	08	10.35
27	10.73	27	10.70	24	10.36	09	10.34
28	10.75	28	10.69	25	10.36	10	10.33
29	10.75	29	10.68	26	10.36	11	10.34
30	10.72	FEB 17, 1984	10.50	27	10.35	12	10.34
31	10.73	18	10.49	29	10.39	13	10.34
NOV 01	10.73	19	10.49	30	10.40	14	10.33
02	10.75	20	10.49	31	10.38	15	10.34
03	10.73	21	10.46	APR 01	10.39	16	10.36
04	10.73	22	10.48	02	10.40	17	10.35
05	10.73	23	10.48	03	10.39	18	10.37
13	10.75	24	10.40	04	10.38	19	10.36
14	10.75	25	10.40	05	10.38	20	10.35
15	10.74	26	10.40	06	10.39	21	10.36
16	10.75	27	10.40	07	10.29	22	10.37
17	10.74	28	10.40	08	10.29	23	10.37
18	10.73	29	10.39	09	10.28	24	10.37
19	10.73	MAR 01	10.39	10	10.28	25	10.38
20	10.71	02	10.39	17	10.39	26	10.38
21	10.71	03	10.39	18	10.40	27	10.40
22	10.73	04	10.38	19	10.40	28	10.40
23	10.73	05	10.39	20	10.41	29	10.40
24	10.72	06	10.38	21	10.36	30	10.41
25	10.77	07	10.38	22	10.36	31	10.40
26	10.79	08	10.38	23	10.35	JUN 01	10.42
27	10.79	09	10.38	24	10.34	02	10.41
28	10.79	10	10.38	25	10.34	03	10.42
29	10.81	11	10.37	26	10.34	04	10.41
30	10.81	12	10.36	27	10.35	05	10.43
DEC 01	10.81	13	10.36	28	10.34	06	10.42
02	10.81	14	10.36	29	10.35	07	10.44
03	10.81	15	10.36	30	10.34	08	10.45
04	10.86	16	10.36	MAY 01	10.34	09	10.43
05	10.87	17	10.36	02	10.34	10	10.44
06	10.88	18	10.36	03	10.34	11	10.44
07	10.89	19	10.35	04	10.33	12	10.44
23	10.67	20	10.36	05	10.33	13	10.45

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUN 14, 1984	10.45	JUN 29, 1984	10.54	JUL 14, 1984	10.69	SEP 16, 1984	11.04
15	10.46	30	10.55	15	10.69	17	11.04
16	10.47	JUL 01	10.57	16	10.69	18	11.04
17	10.47	02	10.57	17	10.69	19	11.05
18	10.48	03	10.58	SEP 05	10.99	20	11.04
19	10.48	04	10.58	06	10.99	21	11.04
20	10.49	05	10.58	07	11.00	22	11.00
21	10.50	06	10.59	08	11.01	23	11.00
22	10.51	07	10.60	09	11.01	24	11.01
23	10.51	08	10.61	10	11.00	25	11.02
24	10.52	09	10.61	11	11.01	26	11.00
25	10.53	10	10.62	12	11.02	27	10.99
26	10.53	11	10.63	13	11.02	28	10.99
27	10.54	12	10.67	14	11.03	29	10.99
28	10.54	13	10.68	15	11.03	30	10.98

INYO COUNTY--Continued

Owens Valley (6-12)

WELL 009S014E27D01M

SITE NUMBER 370035110150303

ABOUT 2 MI SOUTHEAST OF BIG PINE AND 1.5 MI EAST OF HIGHWAY 395 ON STEWART LANE. DRILLED WATER-TABLE WELL IN FLUVIAL AND LACUSTRINE VALLEY-FILL DEPOSITS. DIAM 8 IN, DEPTH 41 FT, PERFORATED 21-41 FT. ALTITUDE OF LSD 3903.83 FT. MEASURED BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE JANUARY TO SEPTEMBER 1984.

HIGHEST WATER LEVEL 13.07 FEET BELOW LAND SURFACE DATUM SEP 30, 1984.

LOWEST WATER LEVEL 13.80 FEET BELOW LAND SURFACE DATUM SEP 05, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG 18, 1984	13.77	AUG 29, 1984	13.77	SEP 09, 1984	13.70	SEP 20, 1984	13.56
19	13.77	30	13.77	10	13.66	21	13.51
20	13.77	31	13.77	11	13.64	22	13.44
21	13.77	SEP 01	13.77	12	13.65	23	13.40
22	13.77	02	13.77	13	13.65	24	13.41
23	13.77	03	13.77	14	13.63	25	13.39
24	13.77	04	13.77	15	13.62	26	13.33
25	13.77	05	13.80	16	13.63	27	13.24
26	13.77	06	13.76	17	13.62	28	13.16
27	13.77	07	13.75	18	13.62	29	13.10
28	13.77	08	13.73	19	13.60	30	13.07

WELL 010S034E03B01M

SITE NUMBER 370648118142901

ABOUT 4 MI SOUTH OF BIG PINE AND 1 MI EAST OF HIGHWAY 395. DRILLED WATER-TABLE WELL IN FLUVIAL AND VALLEY-FILL DEPOSITS. DIAM 6 IN, DEPTH 19 FT, PERFORATED 8-18 FT. ALTITUDE OF LSD 3883.23 FT. MEASURED BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 8.11 FEET BELOW LAND SURFACE DATUM MAY 04, 1984.

LOWEST WATER LEVEL 9.72 FEET BELOW LAND SURFACE DATUM MAY 24, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 24, 1983	9.72	JUL 14, 1983	9.47	JUL 21, 1983	9.47

GROUND WATER

INYO COUNTY--Continued

Owens Valley (6-12)

WELL 0130034E03B01H

SITE NUMBER 370640118142901

ABOUT 4 MI SOUTH OF BIG PINE AND 1 MI EAST OF HIGHWAY 195. DRILLED WATER-TABLE WELL IN FLUVIAL AND VALLEY-FILL DEPOSITS. DIAM 6 IN. DEPTH 19 FT. PERFORATED 8-10 FT. ALTITUDE OF LSD 3883.23 FT. MEASURED BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 8.11 FEET BELOW LAND SURFACE DATUM MAY 04, 1984; MAY 10, 1984.

LOWEST WATER LEVEL 9.72 FEET BELOW LAND SURFACE DATUM MAY 24, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1983	9.09	NOV 10, 1983	8.92	DEC 20, 1983	8.65	FEB 23, 1984	8.36
02	9.08	11	8.91	JAN 14, 1984	8.56	24	8.32
03	9.08	12	8.91	15	8.56	25	8.34
04	9.08	13	8.90	16	8.53	26	8.35
05	9.07	14	8.91	17	8.54	27	8.33
06	9.07	15	8.91	18	8.54	28	8.32
07	9.06	16	8.88	19	8.53	29	8.31
08	9.05	17	8.86	20	8.52	MAR 01	8.31
09	9.04	18	8.88	21	8.52	03	8.30
10	9.06	19	8.87	22	8.51	04	8.31
11	9.08	20	8.82	23	8.53	05	8.30
12	9.05	21	8.85	24	8.51	06	8.30
13	9.06	22	8.87	25	8.49	07	8.31
14	9.07	23	8.86	26	8.52	08	8.30
15	9.08	24	8.82	27	8.49	09	8.30
16	9.08	25	8.82	28	8.47	10	8.29
17	9.07	26	8.85	29	8.46	11	8.28
18	9.07	27	8.83	30	8.45	12	8.27
19	9.06	28	8.81	31	8.44	13	8.26
20	9.06	29	8.79	FEB 01	8.45	14	8.28
21	9.08	30	8.77	02	8.45	15	8.26
22	9.07	DEC 01	8.77	04	8.42	16	8.29
23	9.04	02	8.76	05	8.42	17	8.28
24	9.08	03	8.75	06	8.43	18	8.29
25	9.07	04	8.79	07	8.41	19	8.26
26	9.04	05	8.81	08	8.40	20	8.23
27	9.03	06	8.78	09	8.39	21	8.21
28	9.04	07	8.76	10	8.41	22	8.24
29	9.03	08	8.73	11	8.42	23	8.25
30	9.02	09	8.71	12	8.41	24	8.21
31	9.01	10	8.74	13	8.37	25	8.21
NOV 01	9.00	11	8.71	14	8.41	26	8.17
02	8.98	12	8.73	15	8.40	27	8.26
03	8.97	13	8.72	16	8.36	28	8.22
04	8.96	14	8.70	17	8.40	29	8.27
05	8.95	15	8.69	18	8.39	30	8.24
06	8.95	16	8.69	19	8.39	31	8.19
07	8.93	17	8.69	20	8.38	APR 01	8.21
08	8.96	18	8.69	21	8.33	02	8.25
09	8.95	19	8.66	22	8.37	03	8.26

INYO COUNTY--Continued

Owens Valley (6-12)

WELL 010S034E03B01M

SITE NUMBER 370648118142901

CONTINUED

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR 04, 1984	8.22	MAY 28, 1984	8.27	JUL 09, 1984	8.58	AUG 20, 1984	8.66
05	8.20	29	8.27	10	8.59	21	8.67
06	8.20	30	8.28	11	8.60	22	8.66
07	8.25	31	8.26	12	8.60	23	8.65
08	8.21	JUN 01	8.29	13	8.61	24	8.65
09	8.24	02	8.28	14	8.63	25	8.67
10	8.18	03	8.30	15	8.64	26	8.68
11	8.21	04	8.27	16	8.63	28	8.69
12	8.21	05	8.30	17	8.61	29	8.70
13	8.22	06	8.30	18	8.62	30	8.67
14	8.21	07	8.33	19	8.64	31	8.66
15	8.19	08	8.35	20	8.62	SEP 01	8.69
16	8.17	09	8.36	21	8.60	02	8.70
17	8.16	10	8.36	22	8.61	03	8.71
18	8.14	11	8.36	23	8.63	04	8.70
19	8.13	12	8.36	24	8.63	05	8.71
20	8.15	13	8.38	25	8.60	06	8.68
MAY 03	8.13	14	8.39	26	8.61	07	8.69
04	8.11	15	8.40	27	8.61	08	8.72
05	8.12	16	8.41	28	8.61	09	8.71
06	8.14	17	8.41	29	8.62	10	8.68
07	8.19	18	8.41	30	8.61	11	8.67
08	8.18	19	8.42	31	8.60	12	8.72
09	8.14	20	8.43	AUG 01	8.59	13	8.72
10	8.11	21	8.44	02	8.61	14	8.72
11	8.14	22	8.45	03	8.61	15	8.71
12	8.15	23	8.46	04	8.59	16	8.72
13	8.15	24	8.48	05	8.60	17	8.73
14	8.12	25	8.49	06	8.62	18	8.73
15	8.14	26	8.50	07	8.64	19	8.72
16	8.17	27	8.50	08	8.63	20	8.68
17	8.16	28	8.51	09	8.62	21	8.65
18	8.20	29	8.51	10	8.65	22	8.66
19	8.20	30	8.52	11	8.65	23	8.66
20	8.17	JUL 01	8.53	12	8.65	24	8.70
21	8.17	02	8.53	13	8.65	25	8.71
22	8.21	03	8.54	14	8.65	26	8.70
23	8.21	04	8.55	15	8.66	27	8.71
24	8.20	05	8.54	16	8.66	28	8.71
25	8.23	06	8.55	17	8.64	29	8.69
26	8.23	07	8.56	18	8.65	30	8.63
27	8.25	08	8.57	19	8.65		

SITE NUMBER 370616118150601 LOCAL NUMBER 010S034E03N01M

ABOUT 4.5 MI SOUTH OF BIG PINE. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM. DIAM 16 IN, DEPTH 322 FT. CASED TO 114 FT, PERFORATED 96-114 FT. ALTITUDE OF LSD 3879.9 FT. MEASUREMENTS FURNISHED BY LOS ANGELES DEPARTMENT OF WATER AND POWER; MEASURED PERIODICALLY BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1929 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2.11 FEET BELOW LAND SURFACE DATUM JUL 23, 1969.

LOWEST WATER LEVEL 74.10 FEET BELOW LAND SURFACE DATUM FEB 01, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1983	19.5	JAN 17, 1984	16.42	MAY 10, 1984	21.9	SEP 10, 1984	29.4
NOV 15	17.5	FEB 10	16.8	JUN 11	24.0		
DEC 16	16.2	MAR 09	19.2	JUL 11	26.0		
JAN 13, 1984	16.2	APR 11	20.6	AUG 09	27.8		

GROUND WATER

INYO COUNTY--Continued

Owens Valley (6-12)

WELL 012S034E02C01H

SITE NUMBER 375623118134001

ABOUT 10 MI NORTH OF INDEPENDENCE AND EAST OF HIGHWAY 395, NEAR LITTLE BLACK ROCK SPRING.
 DRILLED WATER-TABLE WELL IN FLUVIAL AND VALLEY-FILL DEPOSITS. DIAM 6 IN, DEPTH 25 FT. PERFO-
 RATED 10-25 FT. ALTITUDE OF LSD 3816.65 FT. MEASURED BY U.S. GEOLOGICAL SURVEY. RECORDS
 AVAILABLE 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 7.14 FEET BELOW LAND SURFACE DATUM MAY 14, 1984.

LOWEST WATER LEVEL 9.34 FEET BELOW LAND SURFACE DATUM MAY 24, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 24, 1983	9.34	JUL 14, 1983	9.20	JUL 22, 1983	9.33

WELL 012S034E02C01H

SITE NUMBER 375623118134001

ABOUT 10 MI NORTH OF INDEPENDENCE AND EAST OF HIGHWAY 395, NEAR LITTLE BLACK ROCK SPRING.
 DRILLED WATER-TABLE WELL IN FLUVIAL AND VALLEY-FILL DEPOSITS. DIAM 6 IN, DEPTH 25 FT. PERFO-
 RATED 10-25 FT. ALTITUDE OF LSD 3816.65 FT. MEASURED BY U.S. GEOLOGICAL SURVEY. RECORDS
 AVAILABLE 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 7.14 FEET BELOW LAND SURFACE DATUM MAY 14, 1984.

LOWEST WATER LEVEL 9.34 FEET BELOW LAND SURFACE DATUM MAY 24, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29, 1983	9.22	DEC 07, 1983	8.97	JAN 15, 1984	8.58	FEB 23, 1984	8.03
30	9.16	08	8.89	16	8.44	24	7.92
31	9.15	09	8.78	17	8.47	25	8.02
NOV 01	9.15	10	8.98	18	8.52	26	8.08
02	9.22	11	8.81	19	8.41	27	8.01
03	9.17	12	9.00	20	8.48	28	7.90
04	9.09	13	8.91	21	8.34	29	7.89
05	9.12	14	8.84	22	8.36	MAR 01	7.90
06	9.14	15	8.81	23	8.43	02	7.89
07	9.02	16	8.85	24	8.41	03	7.91
08	9.18	17	8.86	25	8.31	04	7.89
09	9.17	18	8.87	26	8.37	05	7.93
10	9.05	19	8.72	27	8.36	06	7.84
11	9.05	20	8.70	28	8.28	07	7.88
12	9.08	21	8.74	29	8.24	08	7.85
13	9.03	22	8.76	30	8.27	09	7.85
14	9.20	23	8.76	31	8.24	10	7.83
15	9.13	24	8.78	FEB 01	8.21	11	7.76
16	9.05	25	8.69	02	8.29	12	7.73
17	8.96	26	8.70	03	8.23	13	7.68
18	9.09	27	8.64	04	8.19	14	7.75
19	9.06	28	8.85	05	8.20	15	7.73
20	8.82	29	8.83	06	8.23	16	7.85
21	9.03	30	8.71	07	8.20	17	7.80
22	9.12	31	8.72	08	8.15	18	7.83
23	9.13	JAN 01, 1984	8.73	09	8.08	19	7.73
24	8.98	02	8.68	10	8.18	20	7.63
25	9.00	03	8.65	11	8.22	21	7.54
26	9.13	04	8.63	12	8.17	22	7.72
27	9.06	05	8.55	13	8.01	23	7.74
28	8.98	06	8.59	14	8.16	24	7.57
29	8.93	07	8.58	15	8.14	25	7.59
30	8.90	08	8.57	16	8.00	26	7.41
DEC 01	8.95	09	8.63	17	8.17	27	7.75
02	8.90	10	8.54	18	8.08	28	7.73
03	8.82	11	8.60	19	8.13	MAY 02	7.23
04	9.05	12	8.47	20	8.08	03	7.27
05	9.09	13	8.37	21	7.86	04	7.20
06	9.02	14	8.52	22	8.05	05	7.23

INYO COUNTY--Continued

Owens Valley (6-12)

CONTINUED

WELL 012S034E02C01M

SITE NUMBER 375623118134001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 06, 1984	7.30	JUN 12, 1984	7.48	JUL 19, 1984	8.10	AUG 25, 1984	8.10
07	7.46	13	7.55	20	8.06	26	8.20
08	7.38	14	7.56	21	7.98	27	8.17
09	7.23	15	7.61	22	8.05	28	8.20
10	7.18	16	7.62	23	8.13	29	8.20
11	7.27	17	7.59	24	8.12	30	8.08
12	7.28	18	7.58	25	8.06	31	8.05
13	7.28	19	7.57	26	8.05	SEP 01	8.15
14	7.14	20	7.61	27	8.07	02	8.16
15	7.23	21	7.66	28	8.09	03	8.16
16	7.34	22	7.70	29	8.14	04	8.14
17	7.26	23	7.74	30	8.09	05	8.15
18	7.38	24	7.76	31	8.08	06	8.02
19	7.33	25	7.75	AUG 01	8.07	07	8.09
20	7.22	26	7.74	02	8.12	08	8.18
21	7.23	27	7.76	03	8.14	09	8.13
22	7.35	28	7.76	04	8.08	10	8.01
23	7.33	29	7.77	05	8.11	11	8.03
24	7.27	30	7.79	06	8.20	12	8.16
25	7.36	JUL 01	7.86	07	8.23	13	8.18
26	7.35	02	7.87	08	8.19	14	8.11
27	7.44	03	7.89	09	8.15	15	8.07
28	7.47	04	7.89	10	8.25	16	8.14
29	7.45	05	7.86	11	8.22	17	8.16
30	7.44	06	7.87	12	8.21	18	8.15
31	7.36	07	7.92	13	8.20	19	8.08
JUN 01	7.48	08	7.96	14	8.20	20	7.92
02	7.40	09	7.98	15	8.26	21	7.89
03	7.43	10	8.02	16	8.25	22	7.95
04	7.32	11	8.03	17	8.20	23	7.95
05	7.42	12	8.02	18	8.14	24	8.09
06	7.36	13	8.04	19	8.13	25	8.09
07	7.55	14	8.11	20	8.15	26	8.03
08	7.57	15	8.14	21	8.18	27	8.06
09	7.53	16	8.10	22	8.20	28	8.03
10	7.52	17	8.01	23	8.14	29	7.98
11	7.52	18	8.05	24	8.09	30	7.80

WELL 013S035E10L01M

SITE NUMBER 364907118092801

ABOUT 2.5 MI NORTHEAST OF INDEPENDENCE AND 1 MI NORTH OF HAZOURKA CANYON RD, BETWEEN THE VALLEY-FILL DEPOSITS. DIAM 6 IN, DEPTH 20 FT, PERFORATED 10-20 FT. ALTITUDE OF LSD 3776.35 FT. MEASURED BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 4.61 FEET BELOW LAND SURFACE DATUM APR 10, 1984.

LOWEST WATER LEVEL 7.11 FEET BELOW LAND SURFACE DATUM SEP 08, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 25, 1983	6.22	JUN 08, 1983	6.50	JUL 14, 1983	7.01

GROUND WATER

INYO COUNTY--Continued

Owens Valley (6-12)

WELL 0135035E10101M

SITE NUMBER 364907118092801

ABOUT 2.5 MI NORTHEAST OF INDEPENDENCE AND 1 MI NORTH OF MAZOURKA CANYON RD, BETWEEN THE LOS ANGELES AQUADUCT AND HIGHWAY 395. DRILLED WATER-TABLE WELL IN FLUVIAL AND LACUSTRINE VALLEY-FILL DEPOSITS. DIAM 6 IN, DEPTH 20 FT, PERFORATED 10-20 FT. ALTITUDE OF LSD 3776.35 FT. MEASURED BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 4.61 FEET BELOW LAND SURFACE DATUM APR 10, 1984.

LOWEST WATER LEVEL 7.11 FEET BELOW LAND SURFACE DATUM SEP 08, 1984; SEP 17, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 23, 1983	5.98	JAN 01, 1984	5.45	FEB 09, 1984	4.94	MAR 24, 1984	4.69
24	5.94	02	5.42	10	5.01	25	4.70
25	5.94	03	5.40	11	5.01	26	4.63
26	5.95	04	5.37	12	4.99	27	4.78
27	5.92	05	5.33	13	4.91	28	4.76
28	5.91	06	5.34	14	4.98	29	4.68
29	5.90	07	5.32	15	4.97	30	4.72
30	5.90	08	5.31	16	4.91	31	4.65
DEC 01	5.91	09	5.33	17	4.98	APR 01	4.67
02	5.88	10	5.28	18	4.94	02	4.73
03	5.84	11	5.29	19	4.96	03	4.71
04	5.87	12	5.22	20	4.93	04	4.64
05	5.87	13	5.16	21	4.84	05	4.65
06	5.84	14	5.26	22	4.93	06	4.65
07	5.83	15	5.24	23	4.90	07	4.73
08	5.79	16	5.17	24	4.84	08	4.65
09	5.73	17	5.19	25	4.88	09	4.70
10	5.76	18	5.21	26	4.90	10	4.61
11	5.69	19	5.15	27	4.86	11	4.68
12	5.74	20	5.19	28	4.82	12	4.68
13	5.71	21	5.11	29	4.82	13	4.70
14	5.68	22	5.11	MAR 06	4.79	14	4.69
15	5.65	23	5.10	07	4.81	15	4.66
16	5.65	24	5.09	08	4.79	16	4.64
17	5.64	25	5.04	09	4.79	17	4.64
18	5.63	26	5.09	10	4.78	18	4.66
19	5.57	27	5.07	11	4.76	19	4.65
20	5.55	28	5.03	12	4.75	20	4.72
21	5.55	29	5.02	13	4.74	21	4.70
22	5.55	30	5.02	14	4.78	22	4.71
23	5.54	31	4.99	15	4.75	23	4.65
24	5.54	FEB 01	4.97	16	4.80	24	4.63
25	5.49	02	5.07	17	4.80	25	4.69
26	5.47	03	5.04	18	4.80	26	4.66
27	5.43	04	5.02	19	4.76	27	4.69
28	5.52	05	5.02	20	4.71	28	4.68
29	5.50	06	5.07	21	4.69	29	4.71
30	5.45	07	5.00	22	4.75	30	4.69
31	5.45	08	4.98	23	4.77	MAY 01	4.69

INYO COUNTY--Continued

Owens Valley (6-12)

-- CONTINUED

WELL 013S035E10L01M

SITE NUMBER 364907110092001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 02, 1984	4.70	JUN 09, 1984	5.75	JUL 17, 1984	6.63	AUG 24, 1984	6.93
03	4.74	10	5.78	18	6.69	25	6.96
04	4.73	11	5.78	19	6.70	26	7.01
05	4.77	12	5.80	20	6.69	27	7.00
06	4.81	13	5.84	21	6.67	28	7.03
07	4.89	14	5.86	22	6.70	29	7.02
08	4.86	15	5.89	23	6.73	30	6.96
09	4.84	16	5.91	24	6.71	31	6.98
10	4.87	17	5.92	25	6.71	SEP 01	7.05
11	4.94	18	5.93	26	6.75	02	7.05
12	4.97	19	5.95	27	6.76	03	7.05
13	5.00	20	5.98	28	6.77	04	7.06
14	4.97	21	6.01	29	6.80	05	7.06
15	5.04	22	6.05	30	6.78	06	7.01
16	5.08	23	6.08	31	6.77	07	7.07
17	5.07	24	6.10	AUG 01	6.79	08	7.11
18	5.13	25	6.12	02	6.82	09	7.07
19	5.14	26	6.15	03	6.83	10	7.03
20	5.13	27	6.17	04	6.82	11	7.04
21	5.19	28	6.20	05	6.86	12	7.10
22	5.26	29	6.21	06	6.91	13	7.11
23	5.29	30	6.25	07	6.93	14	7.07
24	5.31	JUL 01	6.28	08	6.92	15	7.06
25	5.38	02	6.31	09	6.93	16	7.10
26	5.39	03	6.33	10	6.97	17	7.11
27	5.46	04	6.36	11	6.94	18	7.10
28	5.49	05	6.38	12	6.96	19	7.07
29	5.51	06	6.41	13	6.97	20	6.98
30	5.54	07	6.44	14	6.97	21	6.98
31	5.53	08	6.48	15	6.98	22	7.01
JUN 01	5.60	09	6.51	16	6.94	23	7.00
02	5.59	10	6.53	17	6.92	24	7.07
03	5.64	11	6.57	18	6.92	25	7.05
04	5.62	12	6.58	19	6.93	26	7.01
05	5.65	13	6.61	20	6.95	27	7.02
06	5.66	14	6.64	21	6.97	28	6.99
07	5.72	15	6.66	22	6.97		
08	5.74	16	6.65	23	6.93		

GROUND WATER

INYO COUNTY--Continued

Owens Valley (6-12)

WELL 013S035E15K01M

SITE NUMBER 364757118093301

ABOUT 2 MI EAST OF INDEPENDENCE AND OFF HAZOURKA CANYON RD. DRILLED WATER-TABLE WELL IN FLUVIAL AND LACUSTRINE VALLEY-FILL DEPOSITS. DIAM 8 IN, DEPTH 42 FT, PERFORATED 2-42 FT. ALTITUDE OF LSD 3786.97 FT. MEASURED BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2.94 FEET BELOW LAND SURFACE DATUM MAR 21, 1984.

LOWEST WATER LEVEL 14.55 FEET BELOW LAND SURFACE DATUM JUL 20, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 11, 1984	3.50	MAR 21, 1984	2.94	APR 29, 1984	3.11	JUN 07, 1984	4.57
12	3.46	22	3.00	30	3.09	08	4.55
13	3.39	23	3.07	MAY 01	3.09	09	4.54
14	3.42	24	3.05	02	3.11	10	4.57
15	3.42	25	3.06	03	3.15	11	4.58
16	3.37	26	3.02	04	3.16	12	4.62
17	3.42	27	3.14	05	3.20	13	6.00
18	3.39	28	3.14	06	3.25	14	10.65
19	3.38	29	3.07	07	3.34	15	11.69
20	3.37	30	3.10	08	3.34	16	12.04
21	3.27	31	3.05	09	3.34	17	12.31
22	3.33	APR 01	3.07	10	3.37	18	12.53
23	3.33	02	3.11	11	3.44	19	12.77
24	3.26	03	3.10	12	3.47	20	13.03
25	3.31	04	3.05	13	3.51	21	13.21
26	3.33	05	3.04	14	3.51	22	13.24
27	3.26	06	3.03	15	3.56	23	13.40
28	3.22	07	3.08	16	3.61	24	13.51
29	3.20	08	3.02	17	3.62	25	13.61
MAR 01	3.21	09	3.06	18	3.68	26	13.77
02	3.19	10	2.99	19	3.70	27	13.37
03	3.20	11	3.03	20	3.71	28	13.27
04	3.18	12	3.05	21	3.75	29	13.05
05	3.19	13	3.06	22	3.81	30	12.27
06	3.15	14	3.06	23	3.84	JUL 01	12.21
07	3.15	15	3.05	24	3.89	02	12.21
08	3.13	16	3.04	25	3.96	03	12.21
09	3.12	17	3.01	26	4.00	04	12.16
10	3.10	18	3.04	27	4.07	05	12.15
11	3.07	19	3.06	28	4.13	06	12.15
12	3.05	20	3.11	29	4.16	07	12.16
13	3.03	21	3.11	30	4.20	08	12.18
14	3.03	22	3.11	31	4.22	09	12.17
15	3.02	23	3.07	JUN 01	4.29	10	12.26
16	3.04	24	3.05	02	4.30	11	12.25
17	3.03	25	3.11	03	4.35	12	12.24
18	3.02	26	3.10	04	4.32	13	12.23
19	2.99	27	3.11	05	4.36	14	12.26
20	2.96	28	3.10	06	6.56	15	12.29

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUL 16, 1984	12.31	AUG 05, 1984	11.82	AUG 25, 1984	11.46	SEP 14, 1984	10.91
17	12.24	06	11.86	26	11.48	15	10.90
18	12.27	07	11.87	27	11.34	16	10.89
19	12.29	08	11.87	28	11.13	17	10.87
20	14.55	09	11.87	29	11.08	18	10.86
21	12.27	10	11.92	30	11.04	19	10.85
22	12.20	11	11.91	31	11.02	20	10.80
23	12.12	12	11.89	SEP 01	11.03	21	10.77
24	9.52	13	11.91	02	11.03	22	10.77
25	9.15	14	11.73	03	11.03	23	10.76
26	8.98	15	11.61	04	11.03	24	10.77
27	11.65	16	11.53	05	11.03	25	10.77
28	12.03	17	11.49	06	11.01	26	10.74
29	12.16	18	11.46	07	11.02	27	10.73
30	12.22	19	11.45	08	11.04	28	10.72
31	12.24	20	11.45	09	10.99	29	10.70
AUG 01	11.80	21	11.46	10	10.97	30	10.66
02	11.79	22	11.47	11	11.02		
03	11.80	23	11.45	12	10.95		
04	11.80	24	11.45	13	10.94		

INYO COUNTY--Continued

Owens Valley (6-12)

WELL 013S035E15N01M

SITE NUMBER 364008118091101

ABOUT 2.5 MI EAST OF INDEPENDENCE AND NORTH OF HAZOURKA CANYON RD. DRILLED WATER-TABLE WELL IN FLUVIAL AND LACUSTRINE VALLEY-FILL DEPOSITS. DIAM 8 IN, DEPTH 50 FT, PERFORATED 10-50 FT. ALTITUDE OF LSD 3774.74 FT. MEASURED BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE JANUARY TO SEPTEMBER 1984.

HIGHEST WATER LEVEL 2.51 FEET BELOW LAND SURFACE DATUM FEB 21, 1984.

LOWEST WATER LEVEL 20.52 FEET BELOW LAND SURFACE DATUM AUG 24, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 08, 1984	2.70	JUN 19, 1984	19.18	JUL 19, 1984	19.68	AUG 18, 1984	19.90
09	2.67	20	19.20	20	19.70	19	19.88
10	2.74	21	19.19	21	20.34	20	19.85
11	2.75	22	19.21	22	20.00	21	20.34
12	2.71	23	19.23	23	20.06	22	20.34
13	2.62	24	19.24	24	19.98	23	20.44
14	2.70	25	19.27	25	19.94	24	20.52
15	2.68	26	19.25	26	19.90	25	20.32
16	2.60	27	19.29	27	19.88	26	20.29
17	2.68	28	19.26	28	18.30	SEP 11	20.10
18	2.63	29	20.32	29	18.28	12	20.06
19	2.64	30	20.14	30	18.24	13	20.07
20	2.61	JUL 01	20.02	31	18.30	14	20.03
21	2.51	02	19.95	AUG 01	19.64	15	20.02
22	2.60	03	19.90	02	19.70	16	20.03
23	2.58	04	19.84	03	19.67	17	20.03
JUN 05	19.04	05	19.80	04	19.59	18	20.03
06	19.00	06	19.74	05	19.50	19	20.02
07	19.14	07	19.70	06	19.70	20	19.98
08	19.15	08	19.75	07	19.70	21	20.00
09	19.14	09	19.72	08	20.02	22	19.97
10	19.10	10	19.73	09	20.10	23	19.95
11	19.08	11	19.73	10	19.93	24	19.98
12	19.04	12	19.68	11	19.70	25	19.97
13	19.10	13	19.68	12	20.00	26	19.95
14	19.10	14	19.71	13	19.94	27	19.96
15	19.14	15	19.69	14	20.06	28	19.97
16	19.21	16	19.71	15	20.00	29	19.97
17	19.20	17	19.68	16	19.94	30	19.93
18	19.20	18	19.68	17	19.92		

SITE NUMBER 364802118105501 LOCAL NUMBER 013S035E16N01M

ABOUT 1.5 MI EAST OF INDEPENDENCE. DRILLED PUBLIC SUPPLY WATER-TABLE WELL IN ALLUVIUM. DIAM 16 IN, DEPTH 275.5 FT, PERFORATED 60-79, 91-275.5 FT. ALTITUDE OF LSD 3866.1 FT. MEASUREMENTS FURNISHED BY LOS ANGELES DEPARTMENT OF WATER AND POWER; MEASURED PERIODICALLY BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1944-60, 1964-71, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.53 FEET BELOW LAND SURFACE DATUM JAN 19, 1953.

LOWEST WATER LEVEL 96.50 FEET BELOW LAND SURFACE DATUM FEB 01, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 1983	19.7	JAN 17, 1984	19.77	MAY 04, 1984	18.0	SEP 07, 1984	16.2
NOV 03	19.2	FEB 01	18.5	JUN 01	17.3		
DEC 01	19.2	MAR 02	18.0	JUL 02	17.3		
JAN 03, 1984	17.3	APR 02	18.0	AUG 03	17.3		

GROUND WATER
 INYO COUNTY--Continued
 Owens Valley (6-12)

SITE NUMBER 364815118110401 LOCAL NUMBER 013S035E17J01H

EAST OF INDEPENDENCE, ABOUT 0.77 MI NORTH OF CITRUS ROAD. DRILLED PUBLIC SUPPLY WATER-TABLE WELL. DIAM 16 IN, DEPTH 376 FT. ALTITUDE OF LSD 368 FT. MEASUREMENTS FURNISHED BY LOS ANGELES DEPARTMENT OF WATER AND POWER; MEASURED PERIODICALLY BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1924, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.4 FEET BELOW LAND SURFACE DATUM SEP 07, 1984.

LOWEST WATER LEVEL 50.83 FEET BELOW LAND SURFACE DATUM SEP 26, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04, 1983	15.0	JAN 17, 1984	13.40	MAY 04, 1984	12.3	SEP 07, 1984	10.4
NOV 03	13.9	FEB 01	13.9	JUN 01	11.1		
DEC 01	16.2	MAR 02	12.3	JUL 02	11.3		
JAN 03, 1984	12.7	APR 02	12.3	AUG 03	11.6		

WELL 013S035E22A01H

SITE NUMBER 364745118090001

ABOUT 2.5 MI EAST OF INDEPENDENCE AND SOUTH OF MAZOURKA CANYON RD. DRILLED WATER-TABLE WELL IN FLUVIAL AND LACUSTRINE VALLEY-FILL DEPOSITS. DIAM 6 IN, DEPTH 18 FT. PERFORATED 8-18 FT. ALTITUDE OF LSD 3770.53 FT. MEASURED BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.17 FEET BELOW LAND SURFACE DATUM MAR 14, 1984.

LOWEST WATER LEVEL 4.28 FEET BELOW LAND SURFACE DATUM JUN 08, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 25, 1983	2.80	JUN 08, 1983	4.28	JUL 14, 1983	3.00

INYO COUNTY--Continued

Owens Valley (6-12)

WELL 0135035E22A01M

SITE NUMBER 164745110090001

ABOUT 2.5 MI EAST OF INDEPENDENCE AND SOUTH OF MAZOURKA CANYON RD. DRILLED WATER-TABLE WELL
IN FLUVIAL AND LACUSTRINE VALLEY-FILL DEPOSITS. DIAM 6 IN, DEPTH 18 FT, PERFORATED 8-18 FT.
ALTITUDE OF LSD 3770.53 FT. MEASURED BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1983 TO
CURRENT YEAR.

HIGHEST WATER LEVEL 0.17 FEET BELOW LAND SURFACE DATUM MAR 14, 1984; MAR 15, 1984.

LOWEST WATER LEVEL 4.28 FEET BELOW LAND SURFACE DATUM JUN 08, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1983	2.81	NOV 21, 1983	2.05	DEC 30, 1983	0.78	FEB 08, 1984	0.28
14	2.81	22	2.07	31	0.72	09	0.26
15	2.74	23	2.04	JAN 01, 1984	0.65	10	0.25
16	2.73	24	1.97	02	0.61	11	0.29
17	2.74	25	1.92	03	0.57	12	0.27
18	2.73	26	1.97	04	0.52	13	0.24
19	2.71	27	1.94	05	0.47	14	0.22
20	2.71	28	1.91	07	0.38	15	0.24
21	2.74	29	1.90	08	0.32	16	0.20
22	2.71	30	1.87	09	0.29	17	0.26
23	2.66	DEC 01	1.86	10	0.27	18	0.28
24	2.75	02	1.84	11	0.23	19	0.26
25	2.69	03	1.78	12	0.28	20	0.26
26	2.65	04	1.79	13	0.28	21	0.22
27	2.64	05	1.82	14	0.35	22	0.29
28	2.64	06	1.80	15	0.40	23	0.28
29	2.62	07	1.78	16	0.36	24	0.25
30	2.59	08	1.74	17	0.40	25	0.26
31	2.55	09	1.69	18	0.48	26	0.29
NOV 01	2.50	10	1.74	19	0.43	27	0.28
02	2.48	11	1.66	20	0.46	28	0.25
03	2.45	12	1.72	21	0.35	29	0.23
04	2.41	13	1.67	22	0.35	MAR 01	0.19
05	2.41	14	1.65	23	0.37	02	0.21
06	2.38	15	1.57	24	0.40	03	0.20
07	2.32	16	1.53	25	0.38	04	0.22
08	2.37	17	1.50	26	0.43	05	0.28
09	2.30	18	1.46	27	0.45	06	0.24
10	2.26	19	1.41	28	0.43	07	0.21
11	2.25	20	1.38	29	0.42	08	0.23
12	2.25	21	1.35	30	0.41	09	0.23
13	2.23	22	1.30	31	0.37	10	0.23
14	2.25	23	1.26	FEB 01	0.37	11	0.23
15	2.22	24	1.23	02	0.39	12	0.23
16	2.19	25	0.97	03	0.37	13	0.19
17	2.15	26	0.95	04	0.37	14	0.17
18	2.15	27	0.93	05	0.34	15	0.17
19	2.15	28	0.96	06	0.32	16	0.24
20	1.98	29	0.91	07	0.30	17	0.22

GROUND WATER

INYO COUNTY--Continued

Owens Valley (6-12)

-- CONTINUED

WELL 013S035E22A01M

SITE NUMBER 364745118090001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 18, 1984	0.28	MAY 06, 1984	1.72	JUN 25, 1984	3.09	AUG 13, 1984	3.27
19	0.26	07	1.79	26	3.22	14	3.10
20	0.26	08	1.79	27	3.33	15	2.89
21	0.23	09	1.86	28	3.36	16	2.81
22	0.36	10	1.93	29	3.37	17	2.92
23	0.40	11	2.03	30	3.49	18	2.96
24	0.35	12	2.08	JUL 01	3.56	19	2.92
25	0.37	13	2.15	02	3.56	20	2.88
26	0.30	14	2.17	03	3.63	21	2.91
27	0.49	15	2.24	04	3.73	22	2.72
28	0.49	16	2.28	05	3.69	23	2.78
29	0.44	17	2.31	06	3.71	24	2.90
30	0.51	18	2.38	07	3.76	25	3.03
31	0.45	19	2.43	08	3.82	26	2.96
APR 01	0.49	20	2.47	09	3.85	27	2.99
02	0.54	21	2.57	10	3.87	28	3.05
03	0.53	22	2.66	11	3.89	29	3.01
04	0.50	23	2.73	12	3.94	30	2.98
05	0.51	24	2.81	13	3.95	31	3.07
06	0.51	25	2.91	14	3.93	SEP 01	3.11
07	0.60	26	2.93	15	3.98	02	3.04
08	0.59	27	3.03	16	3.81	03	3.05
09	0.70	28	3.07	17	3.86	04	3.07
10	0.63	29	3.06	18	3.78	05	2.94
11	0.76	30	3.05	19	3.73	06	2.94
12	0.78	31	3.07	20	3.65	07	3.03
13	0.85	JUN 01	3.17	21	3.41	08	3.06
14	0.87	02	3.04	22	3.23	09	3.14
15	0.92	03	3.09	23	3.14	10	3.17
16	0.97	05	2.85	24	3.21	11	3.14
17	1.02	06	2.87	25	3.33	12	3.21
18	1.05	07	3.05	26	3.47	13	3.27
19	1.07	08	3.08	27	3.55	14	3.26
20	1.14	09	3.07	28	3.57	15	3.32
21	1.17	10	3.13	29	3.55	16	3.33
22	1.22	11	3.08	30	3.56	17	3.34
23	1.20	12	3.06	31	3.39	18	3.37
24	1.26	13	3.11	AUG 01	3.44	19	3.37
25	1.34	14	3.10	02	3.46	20	3.24
26	1.31	15	3.07	03	3.52	21	3.33
27	1.32	16	2.98	04	3.50	22	3.24
28	1.31	17	2.92	05	3.51	23	3.17
29	1.35	18	2.83	06	3.53	24	3.18
30	1.38	19	2.82	07	3.52	25	3.09
MAY 01	1.43	20	2.87	08	3.51	26	3.03
02	1.46	21	2.88	09	3.50	27	3.02
03	1.53	22	2.91	10	3.33	28	3.00
04	1.59	23	2.90	11	3.27	29	2.95
05	1.65	24	2.97	12	3.29	30	2.90

INYO COUNTY--Continued

Owens Valley (6-12)

WELL 013S035E22N01M

SITE NUMBER 364711118094001

ABOUT 1.5 MI SOUTHEAST OF INDEPENDENCE ALONG THE LOS ANGELES AQUADUCT. DRILLED WATER-TABLE WELL IN FLUVIAL AND LACUSTRINE VALLEY-FILL DEPOSITS. DIAM 8 IN, DEPTH 47 FT, PERFORATED 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2.86 FEET BELOW LAND SURFACE DATUM SEP 30, 1984.

LOWEST WATER LEVEL 5.04 FEET BELOW LAND SURFACE DATUM FEB 13, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 11, 1984	4.93	MAR 26, 1984	3.76	MAY 22, 1984	3.72	JUL 01, 1984	3.63
12	4.87	27	4.27	23	3.68	02	3.61
13	5.04	28	4.25	24	3.55	03	3.64
14	5.04	29	3.91	25	3.68	04	3.61
15	4.84	30	4.10	26	3.64	05	3.54
16	4.55	31	3.88	27	3.74	06	3.54
17	4.85	APR 01	3.94	28	3.77	07	3.58
18	4.76	02	4.14	29	3.71	08	3.63
19	4.79	03	4.12	30	3.69	09	3.63
20	4.75	04	3.90	31	3.53	10	3.70
21	4.31	05	3.85	JUN 01	3.67	11	3.70
22	4.62	06	3.81	02	3.55	12	3.63
23	4.61	24	3.53	03	3.57	13	3.65
24	4.45	25	3.66	04	3.40	14	3.76
25	4.58	26	3.64	05	3.55	15	3.80
26	4.71	27	3.75	06	3.43	16	3.73
27	4.62	28	3.75	07	3.70	17	3.57
28	4.44	29	3.80	08	3.71	18	3.62
29	4.41	30	3.68	09	3.63	19	3.65
MAR 02	4.45	MAY 01	3.62	10	3.59	20	3.57
03	4.48	02	3.63	11	3.57	21	3.43
04	4.44	03	3.70	12	3.49	22	3.53
05	4.54	04	3.56	13	3.57	23	3.65
06	4.41	05	3.61	14	3.56	24	3.62
07	4.43	06	3.74	15	3.64	25	3.53
08	4.40	07	3.94	16	3.63	26	3.52
09	4.39	08	3.85	17	3.57	27	3.53
10	4.35	09	3.62	18	3.53	28	3.54
11	4.23	10	3.54	19	3.49	29	3.58
12	4.18	11	3.67	20	3.53	30	3.51
13	4.15	12	3.69	21	3.58	31	3.45
14	4.18	13	3.67	22	3.62	AUG 01	3.42
15	4.19	14	3.45	23	3.65	02	3.48
16	4.38	15	3.56	24	3.68	03	3.50
17	4.31	16	3.76	25	3.64	04	3.39
18	4.39	17	3.65	26	3.59	05	3.41
19	4.25	18	3.81	27	3.58	06	3.55
23	4.26	19	3.73	28	3.55	07	3.59
24	4.03	20	3.54	29	3.54	08	3.52
25	4.04	21	3.54	30	3.55	09	3.43

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG 10, 1984	3.55	AUG 23, 1984	3.31	SEP 05, 1984	3.32	SEP 18, 1984	3.32
11	3.51	24	3.21	06	3.13	19	3.21
12	3.46	25	3.23	07	3.22	20	2.96
13	3.43	26	3.40	08	3.36	21	2.92
14	3.43	27	3.37	09	3.31	22	3.02
15	3.50	28	3.43	10	3.11	23	3.03
16	3.49	29	3.43	11	3.12	24	3.24
17	3.39	30	3.25	12	3.32	25	3.29
18	3.41	31	3.18	13	3.36	26	3.18
19	3.30	SEP 01	3.35	14	3.27	27	3.26
20	3.31	02	3.36	15	3.18	28	3.21
21	3.33	03	3.36	16	3.31	29	3.13
22	3.40	04	3.34	17	3.34	30	2.86

GROUND WATER
INYO COUNTY--Continued

Saline Valley (6-17)

SITE NUMBER 364100117485701 LOCAL NUMBER 014S038E35M01M

ABOUT 12.2 MI SOUTHEAST OF WILLOW SPRINGS. DRILLED UNUSED WATER-TABLE WELL. DIAM 72 IN, DEPTH 37 FT. ALTITUDE OF LSD 1095 FT. RECORDS AVAILABLE 1955, 1978-80, 1982 TO CURRENT YEAR.

HIGHEST WATER LEVEL 35.3 FEET BELOW LAND SURFACE DATUM JAN 26, 1955.

LOWEST WATER LEVEL 35.64 FEET BELOW LAND SURFACE DATUM SEP 26, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
JAN 18, 1984	35.33

Owens Valley (6-12)

SITE NUMBER 363555118041301 LOCAL NUMBER 015S036E28L01M

SOUTHWEST OF LONE PINE. DRILLED UNUSED WATER-TABLE WELL. DIAM 16 IN, DEPTH 276 FT, PERFORATED 100-160 FT. ALTITUDE OF LSD 3773.6 FT. MEASUREMENTS FURNISHED BY LOS ANGELES DEPARTMENT OF WATER AND POWER; MEASURED PERIODICALLY BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1926 TO CURRENT YEAR.

HIGHEST WATER LEVEL 19.60 FEET BELOW LAND SURFACE DATUM AUG 28, 1941.

LOWEST WATER LEVEL 54.14 FEET BELOW LAND SURFACE DATUM APR 01, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 08, 1983	37.9	JAN 17, 1984	38.62	MAY 09, 1984	39.6	SEP 12, 1984	40.4
JAN 10, 1984	39.7	MAR 13	39.9	JUL 20	41.8		

INYO COUNTY--Continued

Death Valley (6-18)

SITE NUMBER 363621117091001 LOCAL NUMBER 015S044E36M01H

ABOUT 0.5 MI WEST OF STOVEPIPE WELLS HOTEL. DRILLED OBSERVATION WATER-TABLE WELL IN ALLUVIAL FAN DEPOSITS OF QUATERNARY AGE. DIAM 2 IN, DEPTH 43.0 FT, CASED TO 45.3 FT, SAND POINT 43.3-45.3 FT. ALTITUDE OF LSD -15.22 FT. RECORDS AVAILABLE 1973 TO CURRENT YEAR

HIGHEST WATER LEVEL 27.70 FEET BELOW LAND SURFACE DATUM APR 09, 1974.

LOWEST WATER LEVEL 28.51 FEET BELOW LAND SURFACE DATUM JUL 30, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
JUN 28, 1984	28.49	SEP 25, 1984	28.51

WATER QUALITY DATA

LOCAL IDENT- I- FIER	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM
015S044E36M01H	84-09-25	10200	7.6	28.0	670	370	70	120	1800	82

SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
31	150	299	930	2900	1.1	61	6200	.20	.04	17000	50	20

Panamint Valley (6-58)

SITE NUMBER 360226117134701 LOCAL NUMBER 022S044E09B01M

ABOUT 0.63 MI WEST OF BALLARAT. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM. DIAM 6 IN, DEPTH 79 FT. ALTITUDE OF LSD 1040 FT. RECORDS AVAILABLE 1967, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.83 FEET BELOW LAND SURFACE DATUM JAN 23, 1979.

LOWEST WATER LEVEL 11.37 FEET BELOW LAND SURFACE DATUM SEP 12, 1967.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
JAN 16, 1984	4.52

Pahrump Valley (6-28)

SITE NUMBER 355832115525201 LOCAL NUMBER 022N010E27R01S

ABOUT 1.4 MI WEST OF STATE LINE ON ROAD TO TECOPA. DRILLED UNUSED WATER-TABLE WELL. DIAM 20 IN, DEPTH 350.1 FT. ALTITUDE OF LSD 2640 FT. RECORDS AVAILABLE 1959, 1962, 1975-77, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 116.25 FEET BELOW LAND SURFACE DATUM FEB 03, 1959.

LOWEST WATER LEVEL 122.14 FEET BELOW LAND SURFACE DATUM JUL 21, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
JAN 20, 1984	121.38

GROUND WATER
INYO COUNTY--Continued
Pahrump Valley (6-28)

SITE NUMBER 360951116072202 LOCAL NUMBER 024N009E21L02S

ABOUT 0.9 MI WEST OF STATE LINE ON HWY 178. DRILLED UNUSED WATER-TABLE WELL. DIAM 1.5 IN, DEPTH 63.9 FT. ALTITUDE OF LSD 2476 FT. RECORDS AVAILABLE 1976-77, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 38.13 FEET BELOW LAND SURFACE DATUM FEB 18, 1976.

LOWEST WATER LEVEL 40.23 FEET BELOW LAND SURFACE DATUM JAN 20, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
JAN 20, 1984	40.23

Middle Amargosa Valley (6-20)

SITE NUMBER 361817116244701 LOCAL NUMBER 025N005E14M01S

NORTH EDGE OF DEATH VALLEY JUNCTION NEAR INTERSECTION OF HWYS 127 AND 190. DRILLED DOMESTIC WATER-TABLE WELL. DIAM 12 IN, DEPTH 200 FT, PERFORATED 160-200 FT. ALTITUDE OF LSD 2038 FT. RECORDS AVAILABLE 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.20 FEET BELOW LAND SURFACE DATUM JAN 22, 1979.

LOWEST WATER LEVEL 6.92 FEET BELOW LAND SURFACE DATUM JUL 21, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
JAN 20, 1984	4.95

Death Valley (6-18)

SITE NUMBER 362711116494401 LOCAL NUMBER 027N001E24E01S

EAST OF FURNACE CREEK INN. DRILLED UNUSED WATER-TABLE WELL IN LACUSTRINE OF PLEISTOCENE AGE. DIAM 14 IN, DEPTH 250 FT. ALTITUDE OF LSD 480 FT. RECORDS AVAILABLE 1958-59, 1962, 1964, 1966-67, 1971-72, 1976, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 74.51 FEET BELOW LAND SURFACE DATUM NOV 20, 1958.

LOWEST WATER LEVEL 76.14 FEET BELOW LAND SURFACE DATUM JUN 16, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 19, 1984	76.03	JUN 28, 1984	76.13

KERN COUNTY

Indian Wells Valley (6-54)

SITE NUMBER 353948117381001 LOCAL NUMBER 026S040E23A01M

ABOUT 200 FT SOUTH OF NORTH KNOX ROAD AND 0.30 MI NORTHEAST OF CHINA LAKE GOLF CLUB. BORED OBSERVATION WATER-TABLE WELL. DIAM 2 IN, DEPTH 52 FT, WELL POINT 50-52 FT. ALTITUDE OF LSD 2217.46 FT. RECORDS AVAILABLE 1972, 1974 TO CURRENT YEAR.

HIGHEST WATER LEVEL 28.98 FEET BELOW LAND SURFACE DATUM NOV 17, 1981.

LOWEST WATER LEVEL 31.72 FEET BELOW LAND SURFACE DATUM OCT 16, 1975.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 17, 1984	29.48

SITE NUMBER 353644117380601 LOCAL NUMBER 027S040E02J01M

SOUTHEAST OF RIDGECREST. DRILLED IRRIGATION WATER-TABLE WELL. DIAM 10 IN, DEPTH 220 FT. ALTITUDE OF LSD 2300 FT. RECORDS AVAILABLE 1958, 1960-62, 1964-66, 1968, 1977-82, 1984 TO CURRENT YEAR.

HIGHEST WATER LEVEL 106.36 FEET BELOW LAND SURFACE DATUM JAN 21, 1960.

LOWEST WATER LEVEL 124.87 FEET BELOW LAND SURFACE DATUM SEP 08, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 19, 1984	123.59

SITE NUMBER 353630117390901 LOCAL NUMBER 027S040E03H01M

ABOUT 100 FT NORTH OF EAST BOHMAN ROAD AND 0.10 MI WEST OF SOUTH GATEWAY BLVD. DRILLED UNUSED WATER-TABLE WELL. DIAM 12 IN, DEPTH 162.3 FT IN 1952. ALTITUDE OF LSD 2287.31 FT. RECORDS AVAILABLE 1952-82, 1984 TO CURRENT YEAR.

HIGHEST WATER LEVEL 92.14 FEET BELOW LAND SURFACE DATUM MAY 22, 1952.

LOWEST WATER LEVEL 104.23 FEET BELOW LAND SURFACE DATUM APR 19, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 19, 1984	104.23

Fremont Valley (6-46)

SITE NUMBER 352209117475201 LOCAL NUMBER 029S039E33K01M

NORTHEAST OF CANTIL. DRILLED UNUSED WATER-TABLE WELL IN SAND OF QUATERNARY AGE. DIAM 16 IN, DEPTH 403.4 FT, CASED TO 402 FT, PERFORATED 210-402 FT. ALTITUDE OF LSD 2050 FT. RECORDS AVAILABLE 1958, 1976, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 131.16 FEET BELOW LAND SURFACE DATUM FEB 13, 1958.

LOWEST WATER LEVEL 244.46 FEET BELOW LAND SURFACE DATUM MAR 06, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
MAR 06, 1984	244.46

GROUND WATER
KERN COUNTY--Continued
Fremont Valley (6-46)

SITE NUMBER 351745117590401 LOCAL NUMBER 030S037E26E01H

ABOUT 0.9 MI NORTHEAST OF RANCHO SECO. DRILLED IRRIGATION WATER-TABLE WELL. DIAM 14 IN, DEPTH 485 FT, PERFORATED 233-485 FT. ALTITUDE OF LSD 2035 FT.

WATER QUALITY DATA

LOCAL IDENT- IFIER	DATE OF SAMPLE			SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (HG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (HG/L AS CACO3)	CALCIUM DIS- SOLVED (HG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (HG/L AS HG)	SODIUM, DIS- SOLVED (HG/L AS NA)	PERCENT SODIUM
030S037E26E01H	84-06-27			801	7.8	25.5	240	0	64	20	77	41
SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (HG/L AS K)	ALKA- LINITY FIELD (HG/L AS CACO3)	SULFATE DIS- SOLVED (HG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (HG/L AS CL)	FLUO- RIDE, DIS- SOLVED (HG/L AS F)	SILICA, DIS- SOLVED (HG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (HG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (HG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (HG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
	2	2.4	256	100	37	.90	25	480	.25	.05	340	7

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

SITE NUMBER 350733118070801 LOCAL NUMBER 032S036E21Q01H

ABOUT 6 MI NORTHEAST OF MOJAVE. DRILLED PUBLIC SUPPLY WATER-TABLE WELL. DIAM 10 IN, DEPTH DRILLED TO 1356 FT, CEMENTED TO 805 FT. ALTITUDE OF LSD 2799 FT. RECORDS AVAILABLE 1950, 1955-58.

WATER QUALITY DATA

LOCAL IDENT- I- FIER		DATE OF SAMPLE		SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (HG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (HG/L AS CACO3)	CALCIUM DIS- SOLVED (HG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (HG/L AS HG)	SODIUM, DIS- SOLVED (HG/L AS NA)	PERCENT SODIUM
032S036E21Q01H		84-06-27		1400	7.5	29.5	320	37	84	27	190	56
SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (HG/L AS K)	ALKA- LINITY FIELD (HG/L AS CACO3)	SULFATE DIS- SOLVED (HG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (HG/L AS CL)	FLUO- RIDE, DIS- SOLVED (HG/L AS F)	SILICA, DIS- SOLVED (HG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (HG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (HG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (HG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
	5	6.2	284	370	44	.40	28	920	1.2	.02	2200	11

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

Antelope Valley (6-44)

SITE NUMBER 345951117503501 LOCAL NUMBER 010H009H04D01S

NORTHEAST OF ROSAMOND BLVD AND LAKE SHORE DRIVE, AT NORTH END OF ROGERS LAKE. DRILLED UNUSED WATER-TABLE WELL IN LAKESHORE DEPOSITS. DIAM 12 IN, DEPTH 502 FT, CASED TO 500 FT, PERFORATED 144-195, 200-433 FT. ALTITUDE OF LSD 2280 FT. RECORDS AVAILABLE 1957 TO CURRENT YEAR.

HIGHEST WATER LEVEL 94.21 FEET BELOW LAND SURFACE DATUM JUL 08, 1959.

LOWEST WATER LEVEL 122.54 FEET BELOW LAND SURFACE DATUM OCT 27, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 1983	122.54	MAR 06, 1984	120.44

KERN COUNTY--Continued

Antelope Valley (6-44)

SITE NUMBER 345518118172601 LOCAL NUMBER 010N013W32D01S

ABOUT 7.5 MI NORTH OF WILLOW SPRINGS. DRILLED IRRIGATION WATER-TABLE WELL. DIAM 16 IN, DEPTH 900 FT. ALTITUDE OF LSD 2775 FT.

WATER QUALITY DATA

LOCAL IDENT- I- FIER	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CA)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM
010N013W32D01S	84-06-26	712	7.8	29.0	210	44	64	13	59	37

SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	HANGA- NESE, DIS- SOLVED (UG/L AS MN)
2	2.4	170	80	61	.30	23	400	4.9	.02	150	24	<1

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

Fremont Valley (6-46)

SITE NUMBER 350411118023601 LOCAL NUMBER 011N011W09A01S

NORTHEAST OF MOJAVE. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 14 IN, DEPTH 422 FT, CASED TO 422 FT, PERFORATED 262-295, 352-362 FT. ALTITUDE OF LSD 2549.6 FT. RECORDS AVAILABLE 1956-58, 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 124.59 FEET BELOW LAND SURFACE DATUM OCT 17, 1956.

LOWEST WATER LEVEL 130.86 FEET BELOW LAND SURFACE DATUM MAR 06, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 1983	130.84	MAR 06, 1984	130.86

Antelope Valley (6-44)

SITE NUMBER 350055118172601 LOCAL NUMBER 011N013W29H01S

WEST OF MOJAVE. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 16 IN, DEPTH 749 FT, CASED TO 744 FT, PERFORATED 520-724 FT. ALTITUDE OF LSD 3350 FT. RECORDS AVAILABLE 1954-56, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 276.60 FEET BELOW LAND SURFACE DATUM SEPT 29, 1984.

LOWEST WATER LEVEL 336.19 FEET BELOW LAND SURFACE DATUM OCT 17, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1983	301.02	FEB 06, 1984	291.59	MAY 30, 1984	281.17	SEP 29, 1984	276.60
NOV 08	296.73	MAR 10	289.08	JUN 27	279.19		
DEC 06	295.40	APR 04	286.58	JUL 27	277.98		
JAN 11, 1984	293.42	MAY 02	283.74	AUG 29	277.09		

GROUND WATER

LOS ANGELES COUNTY

San Fernando Valley (4-12)

SITE NUMBER 341319110273101 LOCAL NUMBER 002N015W20P01S

NORTH OF INTERSECTION OF ROSCOE BLVD AND KESTER AVE ALONG PACOIMA WASH IN SAN FERNANDO VALLEY. DRILLED OBSERVATION WATER-TABLE WELL. DIAM 2 IN, DEPTH 266.5 FT IN 1972, PERFORATED 253.2-263.2 FT. ALTITUDE OF LSD 805 FT. RECORDS FURNISHED BY LOS ANGELES COUNTY FLOOD CONTROL DISTRICT. RECORDS AVAILABLE 1960-69, 1971-72, 1974, 1976-78, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 184.90 FEET BELOW LAND SURFACE DATUM DEC 16, 1960.

LOWEST WATER LEVEL 235.70 FEET BELOW LAND SURFACE DATUM JAN 24, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 1983	213.5	JAN 17, 1984	214.4	APR 16, 1984	213.2	JUL 20, 1984	208.6
NOV 18	213.7	FEB 14	211.2	MAY 15	211.	AUG 14	213.8
DEC 19	214.2	MAR 20	213.5	JUN 19	209.		

Antelope Valley (6-44)

SITE NUMBER 343259117593101 LOCAL NUMBER 005N011W01H01S

NORTHWEST OF 80TH STREET EAST AND AVENUE T INTERSECTION. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 14 IN, DEPTH 414 FT IN 1963, 396.29 FT IN 1967, CASED TO 392 FT, PERFORATED 100-364 FT. ALTITUDE OF LSD 2739 FT. RECORDS AVAILABLE 1955, 1963, 1967-68, 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 64.48 FEET BELOW LAND SURFACE DATUM APR 10, 1980.

LOWEST WATER LEVEL 111.37 FEET BELOW LAND SURFACE DATUM OCT 11, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1983	70.04	MAR 07, 1984	74.30

Acton Valley (4-5)

SITE NUMBER 342018118114501 LOCAL NUMBER 005N013W36L01S

IN ACTON, NEAR INTERSECTION OF CROWN VALLEY ROAD AND SYRACUSE AVENUE. DRILLED INSTITUTION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN, DEPTH 122 FT. ALTITUDE OF LSD 2700 FT. RECORDS AVAILABLE 1956, 1965, 1974-75, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 20.97 FEET BELOW LAND SURFACE DATUM APR 12, 1983.

LOWEST WATER LEVEL 88.56 FEET BELOW LAND SURFACE DATUM OCT 07, 1965.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
MAR 06, 1984	12.47 R

Antelope Valley (6-44)

SITE NUMBER 344150118055401 LOCAL NUMBER 007N012W13H02S

WEST OF 20TH STREET EAST AND NORTH OF LANCASTER BLVD. DOMESTIC WATER-TABLE WELL. DIAM 8 IN, DEPTH 210 FT. ALTITUDE OF LSD 2385 FT. RECORDS AVAILABLE 1963, 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 113.95 FEET BELOW LAND SURFACE DATUM SEP 25, 1963.

LOWEST WATER LEVEL 157.03 FEET BELOW LAND SURFACE DATUM MAR 5, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1983	156.91	MAR 05, 1984	157.03

R Recently, pumped.

LOS ANGELES COUNTY--Continued

Antelope Valley (6-44)

SITE NUMBER 344200118141001 LOCAL NUMBER 007N013W14E01S

ABOUT 0.3 MI SOUTH OF INTERSECTION OF 60TH STREET AND AVENUE I. DRILLED PUBLIC SUPPLY WATER-TABLE WELL. DIAM 14 IN, DEPTH 930 FT. ALTITUDE OF LSD 2350 FT.

WATER QUALITY DATA

LOCAL IDENT- I- FIER	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM
007N013W14E01S	84-06-26	482	7.6	21.0	160	32	50	7.7	37	34

SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
1	1.2	125	35	39	30	31	280	4.4	.03	80	14	<1

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

SITE NUMBER 344841118335001 LOCAL NUMBER 008N016W03F01S

NORTH OF AVENUE D AND WEST OF 240TH STREET WEST. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 1.5 TO 2 IN, DEPTH 326 FT, 1.5-IN CSG 0-295.5 FT, 2-IN CSG 295.5-326 FT, PERFORATED 317-326 FT. ALTITUDE OF LSD 2835 FT. RECORDS AVAILABLE 1965, 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 191.64 FEET BELOW LAND SURFACE DATUM APR 13, 1965.

LOWEST WATER LEVEL 220.57 FEET BELOW LAND SURFACE DATUM OCT 14, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1983	214.44	MAR 07, 1984	214.60

San Gabriel Valley (4-13)

SITE NUMBER 340535117573501 LOCAL NUMBER 001S010W07R02S

NEAR INTERSECTION OF LOS ANGELES AND MAINE STREETS IN BALDWIN PARK. DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE. DIAM 16 IN, DEPTH 200 FT, PERFORATED 74-174, 181-196 FT. ALTITUDE OF LSD 387 FT. RECORDS AVAILABLE 1932 TO CURRENT YEAR. COMPARABLE RECORDS 1903-32 AS PUBLISHED IN PREVIOUS WATER-SUPPLY PAPERS WERE FOR WELL 42(001S010W18A01S).

HIGHEST WATER LEVEL 62.40 FEET BELOW LAND SURFACE DATUM MAY 31, 1943.

LOWEST WATER LEVEL 183.79 FEET BELOW LAND SURFACE DATUM DEC 22, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1983	105.80	JAN 25, 1984	105.60	APR 24, 1984	112.44	JUL 23, 1984	123.36
NOV 28	104.72	FEB 24	106.43	MAY 22	115.70	AUG 27	127.31
DEC 27	105.67	MAR 27	109.60	JUN 26	119.77	SEP 21	129.85

LOS ANGELES COUNTY--Continued

Coastal Plain of Los Angeles (4-11)

SITE NUMBER 334905118124601 LOCAL NUMBER 004S013W23B02S

PREVIOUSLY PUBLISHED AS 4S/13W-23G2. IN LONG BEACH, NEAR INTERSECTION OF 32ND AND DELTA STREETS. DRILLED UNUSED ARTESIAN WELL IN GRAVEL IN UPPERMOST PART OF SILVERADO WATER-BEARING ZONE OF PLEISTOCENE AGE. DIAM 26 TO 16 IN, DEPTH 1074 FT, 26-IN CSG 0-288 FT, 16-IN CSG 288-1068 FT, PERFORATED 650-900 FT. ALTITUDE OF LSD 24.1 FT. MEASUREMENTS FURNISHED BY CITY OF LONG BEACH. RECORDS AVAILABLE 1932 TO CURRENT YEAR.

HIGHEST WATER LEVEL 52.93 FEET BELOW LAND SURFACE DATUM FEB 06, 1939.

LOWEST WATER LEVEL 131.75 FEET BELOW LAND SURFACE DATUM JAN 20, 1953.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 23, 1983	102.38	FEB 24, 1984	103.10	MAY 21, 1984	101.08	AUG 20, 1984	100.18
DEC 30	101.18	MAR 26	107.4	JUN 20	100.28	SEP 20	103.58
JAN 30, 1984	102.70	APR 23	108.18	JUL 23	101.60		

MONO COUNTY

Mono Valley (6-9)

SITE NUMBER 375332119054401 LOCAL NUMBER 001S026E03C01M

ABOUT 0.24 MI WEST OF HWY 395 AND 2 MI NORTH OF JUNE LAKE LOOP ROAD EXIT. DRILLED DOMESTIC WATER-TABLE WELL. DIAM 8 TO 6.6 IN, DEPTH 120 FT IN 1958, DEEPEMED TO 358 FT IN 1965, 8-IN CSG 0-120 FT, 6.6-IN CSG 75-305 FT, PERFORATED 78-85, 120-135, 150-170, 210-250, 270-290 FT, OPEN HOLE 305-358 FT. ALTITUDE OF LSD 6880 FT. RECORDS AVAILABLE 1965, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 33.48 FEET BELOW LAND SURFACE DATUM MAY 22, 1980.

LOWEST WATER LEVEL 119.55 FEET BELOW LAND SURFACE DATUM JAN 14, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
JAN 17, 1984	100.55

ORANGE COUNTY

Coastal Plain of Orange County (8-1)

SITE NUMBER 335459117580701 LOCAL NUMBER 003S010W18C01S

NEAR INTERSECTION OF IMPERIAL HWY AND BEACH BLVD. UNUSED WATER-TABLE WELL. DIAM 26.25 TO 14.25 IN, DEPTH 385 FT, 26.25-IN CSG 0-24 FT, 14.25-IN CSG 0-385 FT, PERFORATED 144-385 FT. ALTITUDE OF LSD 211 FT. MEASUREMENTS FURNISHED BY ORANGE COUNTY FLOOD CONTROL DISTRICT 1961-77; MEASUREMENTS BY U.S. GEOLOGICAL SURVEY 1978 TO CURRENT YEAR. RECORDS AVAILABLE 1968 TO CURRENT YEAR.

HIGHEST WATER LEVEL 82.40 FEET BELOW LAND SURFACE DATUM FEB 17, 1984.

LOWEST WATER LEVEL 127.80 FEET BELOW LAND SURFACE DATUM OCT 29, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 04, 1983	83.51	FEB 17, 1984	82.40	MAY 17, 1984	84.94	SEP 06, 1984	84.03

SITE NUMBER 334900117502301 LOCAL NUMBER 004S009W17Q01S

NEAR INTERSECTION OF TUSTIN AND TAFT AVENUES. UNUSED WATER-TABLE WELL. DIAM 10 IN, DEPTH UNKNOWN. ALTITUDE OF LSD 239 FT. MEASUREMENTS FURNISHED BY ORANGE COUNTY FLOOD CONTROL DISTRICT 1932-77; MEASUREMENTS BY U.S. GEOLOGICAL SURVEY 1978 TO CURRENT YEAR. RECORDS AVAILABLE 1932-35, 1937 TO CURRENT YEAR.

HIGHEST WATER LEVEL 142.79 FEET BELOW LAND SURFACE DATUM AUG 29, 1980.

LOWEST WATER LEVEL 241.34 FEET BELOW LAND SURFACE DATUM OCT 19, 1951.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 02, 1983	150.66	FEB 21, 1984	148.94	MAY 18, 1984	152.10

ORANGE COUNTY--Continued

Coastal Plain of Orange County (8-1)

SITE NUMBER 334404117480701 LOCAL NUMBER 005S009H15R03S

NEAR INTERSECTION OF BRYAN AND BROWNING STREETS. UNUSED WATER-TABLE WELL. DIAM 16 IN, DEPTH 787 FT. ALTITUDE OF LSD 96.7 FT. MEASUREMENTS FURNISHED BY ORANGE COUNTY FLOOD CONTROL DISTRICT 1969-76; MEASUREMENTS BY U.S. GEOLOGICAL SURVEY 1978 TO CURRENT YEAR. RECORDS AVAILABLE 1969-76, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 17.54 FEET BELOW LAND SURFACE DATUM AUG 09, 1983.

LOWEST WATER LEVEL 32.60 FEET BELOW LAND SURFACE DATUM OCT 22, 1974.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 03, 1983	18.93	FEB 07, 1984	18.34	MAY 11, 1984	17.92	AUG 13, 1984	18.92

SITE NUMBER 334456117551201 LOCAL NUMBER 005S010H09R01S

ABOUT 400 FT WEST OF 5TH STREET AND HARBOR BLVD. DRILLED UNUSED WATER-TABLE WELL. DIAM 6 IN, DEPTH 115 FT. ALTITUDE OF LSD 74.2 FT. MEASUREMENTS FURNISHED BY ORANGE COUNTY FLOOD CONTROL DISTRICT 1938-56, 1958, 1964-77; MEASUREMENTS BY U.S. GEOLOGICAL SURVEY 1978 TO CURRENT YEAR. RECORDS AVAILABLE 1938-55, 1964 TO CURRENT YEAR.

HIGHEST WATER LEVEL 27.9 FEET BELOW LAND SURFACE DATUM MAR 07, 1984.

LOWEST WATER LEVEL 82.80 FEET BELOW LAND SURFACE DATUM APR 22, 1953.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1983	33.43	MAR 07, 1984	27.9	JUN 04, 1984	29.78	SEP 06, 1984	31.96
NOV 07	32.73	APR 02	27.91	JUL 03	30.60		
FEB 07, 1984	28.17	MAY 07	27.98	AUG 07	31.90		

RIVERSIDE COUNTY

Rice Valley (7-4)

SITE NUMBER 340300114473301 LOCAL NUMBER 001S021E32B01S

ABOUT 1.5 MI SOUTHEAST OF OLD RICE AIR BASE. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM. DIAM 16 IN, DEPTH 175 FT IN 1962, 160.85 FT IN 1979, PERFORATED 135-175 FT. ALTITUDE OF LSD 740 FT. RECORDS AVAILABLE 1962-67, 1969, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 150.43 FEET BELOW LAND SURFACE DATUM AUG 27, 1981.

LOWEST WATER LEVEL 152.74 FEET BELOW LAND SURFACE DATUM MAR 18, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
OCT 20, 1983	150.58

GROUND WATER
RIVERSIDE COUNTY--Continued
Coachella Valley (7-21)

SITE NUMBER 335304116353001 LOCAL NUMBER 003S004E29F01S

NEAR HWY 111 NORTHWEST OF PALM SPRINGS. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM. DIAH 3 IN, DEPTH 575 FT, CASED TO 575 FT, PERFORATED 555-575 FT. ALTITUDE OF LSD 865 FT. RECORDS AVAILABLE 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 356.56 FEET BELOW LAND SURFACE DATUM APR 24, 1984.

LOWEST WATER LEVEL 547.00 FEET BELOW LAND SURFACE DATUM DEC 21, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 03, 1983	377.91	APR 24, 1984	356.56

WATER QUALITY DATA

LOCAL IDENT- I- FIER	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM
003S004E29F01S	83-11-03	350	10.7	18.0	49	3	18	1.1	34	57
	84-04-24	525	10.3	18.0	130	110	43	6.6	41	38

SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
2	5.6	47	38	35	.20	.0	161	160	<.10	.01	20	7
2	6.6	29	130	53	.40	.0	277	300	<.10	.02	30	<3

MANGA-
NESE,
DIS-
SOLVED
(UG/L
AS MN)

2
<1

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

RIVERSIDE COUNTY- Continued

Coachella Valley (7-21)

SITE NUMBER 335231116345401 LOCAL NUMBER 003S004E29R01S

NEAR HWY 111 NORTHWEST OF PALM SPRINGS. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM. DIAM 8 IN, DEPTH 551 FT, CASED TO 551 FT, PERFORATED 431-551 FT. ALTITUDE OF LSD 777 FT. RECORDS AVAILABLE 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 392.81 FEET BELOW LAND SURFACE DATUM APR 25, 1984.

LOWEST WATER LEVEL 516.39 FEET BELOW LAND SURFACE DATUM MAR 14, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 03, 1983	396.43	APR 25, 1984	392.81

WATER QUALITY DATA

LOCAL IDENT- IFIER	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM
003S004E29R01S	83-11-03	540	8.1	19.5	200	140	60	12	21	18
	84-04-25	250	8.3	19.0	94	28	29	5.3	12	21

SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LILITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
.7	4.6	57	130	49	.70	3.6	322	320	<.10	<.01	10	48
.6	3.3	66	31	16	.80	5.2	138	140	<.10	.02	<10	10

HANGA-
NESE,
DIS-
SOLVED
(UG/L
AS MN)

280
110

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

Pinto Valley (7-6)

SITE NUMBER 335612115243301 LOCAL NUMBER 003S015E04J01S

ABOUT 16 MI NORTH OF DESERT CENTER. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM. DIAM 16 IN, DEPTH 575 FT. ALTITUDE OF LSD 1080.6 FT. RECORDS AVAILABLE 1954-67, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 150.00 FEET BELOW LAND SURFACE DATUM DEC 04, 1954.

LOWEST WATER LEVEL 167.72 FEET BELOW LAND SURFACE DATUM FEB 25, 1974.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
AUG 22, 1984	167.24

GROUND WATER
RIVERSIDE COUNTY--Continued
 Rice Valley (7-4)

SITE NUMBER 335503114490201 LOCAL NUMBER 003S021E18D01S

ABOUT 4.5 MI NORTH-NORTHWEST OF MIDLAND. UNUSED WATER-TABLE WELL IN ALLUVIUM. DIAM 16 IN, DEPTH 371 FT. ALTITUDE OF LSD 885 FT. RECORDS AVAILABLE 1962, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 284.99 FEET BELOW LAND SURFACE DATUM MAR 29, 1962.

LOWEST WATER LEVEL 285.75 FEET BELOW LAND SURFACE DATUM JAN 22, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20, 1983	285.65	APR 18, 1984	285.55

Chuckwalla Valley (7-5)

SITE NUMBER 334647115195801 LOCAL NUMBER 004S016E32H01S

ABOUT 6.3 MI NORTHEAST OF DESERT CENTER. DRILLED UNUSED WATER-TABLE WELL. DIAM 14 IN, DEPTH 555 FT. ALTITUDE OF LSD 548 FT. RECORDS AVAILABLE 1961-62, 1970, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 66.95 FEET BELOW LAND SURFACE DATUM APR 19, 1979.

LOWEST WATER LEVEL 121.88 FEET BELOW LAND SURFACE DATUM JUL 31, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
JUL 31, 1984	121.88

SITE NUMBER 335133115141901 LOCAL NUMBER 004S017E06C01S

ABOUT 13.5 MI NORTHEAST OF DESERT CENTER. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM. DIAM 16 IN, DEPTH 501 FT. ALTITUDE OF LSD 500 FT. RECORDS AVAILABLE 1932, 1952, 1954, 1956-57, 1959, 1961-71, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 21.00 FEET BELOW LAND SURFACE DATUM MAY 21, 1952.

LOWEST WATER LEVEL 25.31 FEET BELOW LAND SURFACE DATUM JUL 31, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
JUL 31, 1984	25.31

Orocopia Valley (7-31)

SITE NUMBER 333929115552201 LOCAL NUMBER 006S010E11N01S

ABOUT 1 MI SOUTH OF INTERSTATE 10 AND 6.2 MI WEST OF COTTONWOOD SPRING ROAD. DRILLED DOMESTIC WATER-TABLE WELL. DIAM 14 TO 12 TO 8 IN, DEPTH 400 FT IN 1952, PERFORATED 335-400 FT. ALTITUDE OF LSD 1275 FT. RECORDS AVAILABLE 1952, 1979, 1981 TO CURRENT YEAR.

HIGHEST WATER LEVEL 329. FEET BELOW LAND SURFACE DATUM JUL 02, 1952.

LOWEST WATER LEVEL 330.96 FEET BELOW LAND SURFACE DATUM SEP 23, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
AUG 22, 1984	329.46

RIVERSIDE COUNTY--Continued

Orocopia Valley (7-51)

SITE NUMBER 333911115505701 LOCAL NUMBER 006S011E16E01S

ABOUT 0.6 MI SOUTH OF INTERSTATE 10 AND 2.5 MI WEST OF COTTONWOOD SPRING ROAD. DRILLED UNUSED WATER-TABLE WELL. DIAM 16 IN, DEPTH 515.4 FT, PERFORATED 320-460 FT, CASED TO 528 FT. ALTITUDE OF LSD 1320 FT. RECORDS AVAILABLE 1933-34, 1940, 1961, 1979, 1981 TO CURRENT YEAR.

HIGHEST WATER LEVEL 243. FEET BELOW LAND SURFACE DATUM MAR 20, 1934.

LOWEST WATER LEVEL 274. FEET BELOW LAND SURFACE DATUM JUN 10, 1934.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
AUG 22, 1984	246.29

Palo Verde Mesa (7-39)

SITE NUMBER 334120114400001 LOCAL NUMBER 006S022E03B01S

ABOUT 5.5 MI NORTHWEST OF BLYTHE. DRILLED UNUSED WATER-TABLE WELL. DIAM 12.75 IN, DEPTH 370 FT IN 1971, PERFORATED 275-414 FT, CASED 0-414 FT. ALTITUDE OF LSD 421 FT. RECORDS AVAILABLE 1964, 1971, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 161.00 FEET BELOW LAND SURFACE DATUM JAN 20, 1964.

LOWEST WATER LEVEL 171.70 FEET BELOW LAND SURFACE DATUM SEP 18, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
SEP 18, 1984	171.70

SITE NUMBER 334044114393201 LOCAL NUMBER 006S022E03R02S

ABOUT 1 MI WEST OF PALO VERDE JUNIOR COLLEGE. DRILLED IRRIGATION WATER-TABLE WELL. DIAM 16 IN, DEPTH 350 FT, PERFORATED 170-350 FT, CASED 0-350 FT. ALTITUDE OF LSD 406 FT. RECORDS AVAILABLE 1966, 1971, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 143.00 FEET BELOW LAND SURFACE DATUM MAY 17, 1966.

LOWEST WATER LEVEL 171.56 FEET BELOW LAND SURFACE DATUM AUG 18, 1971.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
SEP 18, 1984	158.98

Palo Verde Valley (7-38)

SITE NUMBER 333717114363401 LOCAL NUMBER 006S023E30K01S

ABOUT 1.5 MI NORTHWEST OF BLYTHE. DRILLED PUBLIC SUPPLY WATER-TABLE WELL. DIAM 12 IN, DEPTH 712 FT, CASED TO 712 FT, PERFORATED 620-648, 670-690 FT. ALTITUDE OF LSD 369 FT. RECORDS AVAILABLE 1977, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 9.37 FEET BELOW LAND SURFACE DATUM SEP 23, 1981.

LOWEST WATER LEVEL 10.62 FEET BELOW LAND SURFACE DATUM JAN 23, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
SEP 18, 1984	9.92

GROUND WATER

RIVERSIDE COUNTY--Continue.

Palo Verde Valley (7-38)

SITE NUMBER 333640114330201 LOCAL NUMBER 006S023E35E01S

ABOUT 2 MI EAST OF EAST BLYTHE. DRILLED UNUSED WATER-TABLE WELL. DIAM 12 IN, DEPTH 365.5 FT. ALTITUDE OF LSD 267 FT. RECORDS AVAILABLE 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 7.72 FEET BELOW LAND SURFACE DATUM SEP 18, 1984.

LOWEST WATER LEVEL 10.24 FEET BELOW LAND SURFACE DATUM FEB 03, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
SEP 18, 1984	7.72

Chuckwalla Valley (7-5)

SITE NUMBER 333340114552801 LOCAL NUMBER 007S020E18H01S

ABOUT 6.9 MI NORTH-NORTHWEST OF WILEYS WELL. DRILLED UNUSED WATER-TABLE WELL. DIAM 14 TO 12 IN, DEPTH 1139 FT, 14-IN CSG 0-343 FT, 12-IN CSG 343-1083 FT, PERFORATED 853-1083 FT. ALTITUDE OF LSD 445 FT. RECORDS AVAILABLE 1961, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 168.37 FEET BELOW LAND SURFACE DATUM APR 05, 1961.

LOWEST WATER LEVEL 173.48 FEET BELOW LAND SURFACE DATUM JUL 31, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
JUL 31, 1984	170.65

Palo Verde Valley (7-38)

SITE NUMBER 333609114345701 LOCAL NUMBER 007S023E04D01S

ABOUT 1.3 MI SOUTHEAST OF BLYTHE. DRILLED UNUSED WATER-TABLE WELL. DIAM 12 IN, DEPTH 502 FT, CASED TO 500 FT, PERFORATED 270-290, 334-344 FT. ALTITUDE OF LSD 268 FT. RECORDS AVAILABLE 1973, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 11.34 FEET BELOW LAND SURFACE DATUM AUG 27, 1981.

LOWEST WATER LEVEL 13.43 FEET BELOW LAND SURFACE DATUM JAN 22, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
SEP 18, 1984	11.79

SITE NUMBER 333030114412501 LOCAL NUMBER 008S022E04H02S

ABOUT 0.7 MI SOUTHWEST OF RIPLEY. UNUSED WATER-TABLE WELL. DIAM 0.75 IN, DEPTH 13.6 FT. ALTITUDE OF LSD 242 FT. MEASUREMENTS PRIOR TO 8/31/71 FURNISHED BY PALO VERDE IRRIGATION DISTRICT. RECORDS AVAILABLE 1923-26, 1936-37, 1948-71, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 4.11 FEET BELOW LAND SURFACE DATUM SEP 10, 1959.

LOWEST WATER LEVEL 12.82 FEET BELOW LAND SURFACE DATUM FEB 03, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
SEP 18, 1984	10.56

RIVERSIDE COUNTY--Continued

Upper Santa Ana Valley (8-2)

SITE NUMBER 335732117252801 LOCAL NUMBER 002S005H32B01S

IN NICHOLS PARK IN RIVERSIDE. DRILLED UNUSED WATER-TABLE WELL. DIAM 12 IN, DEPTH 110 FT, PERFORATED 95-110 FT. ALTITUDE OF LSD 777.8 FT. RECORDS FURNISHED BY WESTERN MUNICIPAL WATER DISTRICT. RECORDS AVAILABLE 1955, 1963-70, 1972, 1974-75, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 46.7 FEET BELOW LAND SURFACE DATUM MAY 19, 1983.

LOWEST WATER LEVEL 52.60 FEET BELOW LAND SURFACE DATUM DEC 05, 1972.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 22, 1983	46.80	MAR 30, 1984	46.75

SITE NUMBER 335731117330601 LOCAL NUMBER 002S006H31C01S

ABOUT 0.35 MI SOUTHEAST OF INTERSECTION OF ADAMS AVE AND SCHLEISHAN ROAD. DRILLED DOMESTIC WATER-TABLE WELL. DIAM AND DEPTH UNKNOWN. ALTITUDE OF LSD 601 FT. MOST MEASUREMENTS FURNISHED BY RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT PRIOR TO 1982; MEASURED PERIODICALLY BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1962 TO CURRENT YEAR.

HIGHEST WATER LEVEL 22.50 FEET BELOW LAND SURFACE DATUM JUL 02, 1970.

LOWEST WATER LEVEL 41.20 FEET BELOW LAND SURFACE DATUM JUN 06, 1974.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 30, 1983	27.49	APR 11, 1984	28.60	SEP 21, 1984	31.75

San Jacinto Basin (8-5)

SITE NUMBER 335512117080001 LOCAL NUMBER 003S002M07P01S

EAST OF INTERSECTION OF THEODORE STREET AND ALESSANDRO BLVD. DRILLED UNUSED WATER-TABLE WELL. DIAM 12 IN, DEPTH 350 FT. ALTITUDE OF LSD 1590 FT. MOST MEASUREMENTS FURNISHED BY RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT PRIOR TO 1982; MEASURED PERIODICALLY BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1939-48, 1951-55, 1962 TO CURRENT YEAR.

HIGHEST WATER LEVEL 101.80 FEET BELOW LAND SURFACE DATUM JAN 21, 1943.

LOWEST WATER LEVEL 145.30 FEET BELOW LAND SURFACE DATUM OCT 05, 1971.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 30, 1983	111.17	APR 11, 1984	111.16	SEP 21, 1984	111.33

SITE NUMBER 335437117110101 LOCAL NUMBER 003S003H15F01S

WEST OF INTERSECTION OF OLIVER STREET AND CACTUS AVENUE. DRILLED UNUSED WATER-TABLE WELL. DIAM 12 IN, DEPTH 243.6 FT. ALTITUDE OF LSD 1539 FT. MOST MEASUREMENTS FURNISHED BY RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT; MEASURED PERIODICALLY BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1951 TO CURRENT YEAR.

HIGHEST WATER LEVEL 99.85 FEET BELOW LAND SURFACE DATUM APR 01, 1952.

LOWEST WATER LEVEL 159.09 FEET BELOW LAND SURFACE DATUM OCT 23, 1956.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 30, 1983	110.60	APR 11, 1984	127.37 S	SEP 21, 1984	124.87

S Nearby, pumping.

GROUND WATER

RIVERSIDE COUNTY--Continued

San Jacinto Basin (8-5)

SITE NUMBER 334717117124401 LOCAL NUMBER 004S003W29Q01S

NORTH OF INTERSECTION OF HILSON AND SAN JACINTO ROADS. DRILLED UNUSED WATER-TABLE WELL. DIAM 14 IN, DEPTH 1624 FT, CASED TO 1624 FT. ALTITUDE OF LSD 1417 FT. MOST MEASUREMENTS FURNISHED BY RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT; MEASURED PERIODICALLY BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1974-77, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 151.70 FEET BELOW LAND SURFACE DATUM NOV 30, 1983.

LOWEST WATER LEVEL 209.60 FEET BELOW LAND SURFACE DATUM OCT 16, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 30, 1983	151.70	APR 11, 1984	149.91 S

Temecula Valley (9-5)

SITE NUMBER 332653117050301 LOCAL NUMBER 008S002W28R01S

SOUTHEAST OF TEMECULA ON PECHANGA INDIAN RESERVATION. DRILLED UNUSED WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE. DIAM 12.25 IN, DEPTH 1002 FT, CASED TO 1000 FT, PERFORATED 130-220, 250-350, 400-710, 750-780, 830-870, 930-940, 975-1000 FT. ALTITUDE OF LSD 1190 FT. RECORDS AVAILABLE 1973 TO CURRENT YEAR.

HIGHEST WATER LEVEL 46.86 FEET BELOW LAND SURFACE DATUM APR 08, 1980.

LOWEST WATER LEVEL 133.50 FEET BELOW LAND SURFACE DATUM DEC 18, 1973.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 1983	96.61 R	DEC 07, 1983	65.32	MAR 14, 1984	100.55 P	JUN 26, 1984	123.60 P

WATER QUALITY DATA

LOCAL IDENTIFIER	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CaCO3)	HARDNESS, NONCARBONATE (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	PERCENT SODIUM
008S002W28R01S	84-09-06	495	7.6	19.5	140	0	48	4.2	54	46

SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY FIELD (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	NITROGEN, NO2+NO3, DIS-SOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGANESE, DIS-SOLVED (UG/L AS MN)
2	1.2	176	18	38	.60	25	290	.84	.07	80	6	1

SITE NUMBER 332719117061501 LOCAL NUMBER 008S002W29G01S

SOUTHEAST OF TEMECULA ON PECHANGA INDIAN RESERVATION. DRILLED UNUSED WATER-TABLE WELL. DIAM 12 IN, DEPTH 176 FT IN 1951, 159.1 FT IN 1972. ALTITUDE OF LSD 1091.1 FT. RECORDS AVAILABLE 1925-28, 1934-37, 1940, 1951-54, 1956, 1958-68, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 17.70 FEET BELOW LAND SURFACE DATUM APR 08, 1980.

LOWEST WATER LEVEL 55.40 FEET BELOW LAND SURFACE DATUM SEP 03, 1951.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 1983	27.18	DEC 07, 1983	28.03	MAR 14, 1984	29.68 S	JUN 26, 1984	32.83 S

S Nearby, pumping.

R Recently, pumped.

P Pumping.

GROUND WATER

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SAN BERNARDINO COUNTY

Scartes Valley (6-52)

SITE NUMBER 35404011723201 LOCAL NUMBER 026S043E18A01H

ABOUT 2 MI SOUTH OF HESTEND. UNUSED WATER-TABLE WELL. DIAM 10 IN, DEPTH 102 FT. ALTITUDE OF LSD 1600 FT. RECORDS AVAILABLE 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 29.85 FEET BELOW LAND SURFACE DATUM AUG 09, 1979.

LOWEST WATER LEVEL 36.60 FEET BELOW LAND SURFACE DATUM JUL 29, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
JAN 16, 1984	34.95

Superior Valley (6-49)

SITE NUMBER 351353117025101 LOCAL NUMBER 031S046E16J01H

ABOUT 0.5 MI SOUTH OF SOUTH EDGE OF SUPERIOR LAKE AND 21 MI NORTH OF BARSTON. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM. DIAM 14 IN, DEPTH 245.5 FT IN 1954, 227.5 FT IN 1968, 198.6 FT IN 1978. ALTITUDE OF LSD 3011 FT. RECORDS AVAILABLE 1953-54, 1961-68, 1970, 1978-79, 1981 TO CURRENT YEAR.

HIGHEST WATER LEVEL 93.00 FEET BELOW LAND SURFACE DATUM DEC 15, 1953.

LOWEST WATER LEVEL 94.05 FEET BELOW LAND SURFACE DATUM OCT 17, 1966.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 15, 1983	93.30	MAR 21, 1984	93.24

Copper Mountain Valley (7-11)

SITE NUMBER 340945116125001 LOCAL NUMBER 001N007E23A01S

ABOUT 1.9 MI EAST OF SUNFAIR. DRILLED UNUSED WATER-TABLE WELL. DIAM 10 IN, DEPTH 368.5 FT, PERFORATED 360-370 FT. ALTITUDE OF LSD 2376 FT. RECORDS AVAILABLE 1969, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 209.96 FEET BELOW LAND SURFACE DATUM JAN 09, 1980.

LOWEST WATER LEVEL 210.82 FEET BELOW LAND SURFACE DATUM JULY 27, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07, 1983	210.67	FEB 07, 1984	210.70	MAY 29, 1984	210.70	SEP 30, 1984	210.78
NOV 09	210.80	MAR 09	210.76	JUN 28	210.72		
DEC 07	210.72	APR 05	210.61	JUL 27	210.82		
JAN 09, 1984	210.76	MAY 03	210.70	AUG 30	210.79		

Twentynine Palms (7-10)

SITE NUMBER 340743116025501 LOCAL NUMBER 001N009E33F04S

ABOUT 0.3 MI SOUTHEAST OF TWENTYNINE PALMS. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM. DIAM 2 IN, DEPTH 42 FT, SAND POINT 40-42 FT. ALTITUDE OF LSD 1981 FT. RECORDS AVAILABLE 1974 TO CURRENT YEAR.

HIGHEST WATER LEVEL 7.86 FEET BELOW LAND SURFACE DATUM APR 17, 1984.

LOWEST WATER LEVEL 9.10 FEET BELOW LAND SURFACE DATUM JAN 17, 1974.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 18, 1983	8.04	APR 17, 1984	7.86

GROUND WATER

SAN BERNARDINO COUNTY--Continued

Twentynine Palms (7-10)

SITE NUMBER 340741116022001 LOCAL NUMBER 001N009E33H01S

ABOUT 1 MI SOUTHEAST OF FOUR CORNERS. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM. DIAM 2 IN, DEPTH 77 FT, SAND POINT 75-77 FT. ALTITUDE OF LSD 1960.75 FT. RECORDS AVAILABLE 1974 TO CURRENT YEAR.

HIGHEST WATER LEVEL 51.68 FEET BELOW LAND SURFACE DATUM MAR 10, 1981.

LOWEST WATER LEVEL 52.97 FEET BELOW LAND SURFACE DATUM OCT 12, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 18, 1983	52.16	APR 17, 1984	51.90

Dale Valley (7-9)

SITE NUMBER 340934115451501 LOCAL NUMBER 001N012E20D01S

ABOUT 30.2 MI WEST OF AMBOY. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM OF PLEISTOCENE AGE. DIAM 12 IN, DEPTH 260 FT, PERFORATED 34-248 FT. ALTITUDE OF LSD 1211.3 FT. RECORDS AVAILABLE 1948, 1950-59, 1961-67, 1969-70, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 26.67 FEET BELOW LAND SURFACE DATUM OCT 01, 1981.

LOWEST WATER LEVEL 45.83 FEET BELOW LAND SURFACE DATUM APR 09, 1948.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 18, 1983	26.93	APR 20, 1984	26.90

SITE NUMBER 340933115451101 LOCAL NUMBER 001N012E20D04S

NEAR AMBOY ROAD, ABOUT 1.5 MI NORTHWEST OF DALE LAKE. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM. DIAM 12 IN, DEPTH 1190 FT, PERFORATED 65-200 FT. ALTITUDE OF LSD 1212.4 FT. RECORDS AVAILABLE 1940, 1954, 1959-67, 1969-70, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 27.04 FEET BELOW LAND SURFACE DATUM MAR 18, 1964.

LOWEST WATER LEVEL 33.50 FEET BELOW LAND SURFACE DATUM JUL 01, 1940.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 18, 1983	27.75	APR 20, 1984	27.77

Vidal Valley (7-42)

SITE NUMBER 341140114353601 LOCAL NUMBER 001N023E08D01S

ABOUT 1.5 MI WEST OF VIDAL JUNCTION. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM. DIAM 16 IN, DEPTH 502.7 FT, PERFORATED 296-336, 475-603 FT. ALTITUDE OF LSD 960 FT. RECORDS AVAILABLE 1962-67, 1969, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 263.08 FEET BELOW LAND SURFACE DATUM APR 24, 1979.

LOWEST WATER LEVEL 268.1 FEET BELOW LAND SURFACE DATUM NOV 17, 1965.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20, 1983	267.38	APR 18, 1984	267.19

SAN BERNARDINO COUNTY--Continued

Ames Valley (7-16)

SITE NUMBER 341345116234701 LOCAL NUMBER 002N006E30L01S

ABOUT 20 MI NORTHWEST OF TWENTYNINE PALMS. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM. DIAM 6 IN, DEPTH 377 FT. ALTITUDE OF LSD 3328 FT. RECORDS AVAILABLE 1958, 1966-71, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 311.65 FEET BELOW LAND SURFACE DATUM MAY 22, 1958.

LOWEST WATER LEVEL 359.04 FEET BELOW LAND SURFACE DATUM APR 21, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
MAR 29, 1984	329.42

Ward Valley (7-13)

SITE NUMBER 341627115102901 LOCAL NUMBER 002N017E11W01S

ABOUT 0.5 MI SOUTHWEST OF MILLIGAN. DRILLED WATER-TABLE WELL. DIAM 12 IN, DEPTH 100.6 FT IN 1979. ALTITUDE OF LSD 720 FT. RECORDS AVAILABLE 1964, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 92.25 FEET BELOW LAND SURFACE DATUM JUL 20, 1979.

LOWEST WATER LEVEL 93.55 FEET BELOW LAND SURFACE DATUM AUG 22, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1983	93.37	APR 18, 1984	93.41

Headman Valley (7-13)

SITE NUMBER 341918116101501 LOCAL NUMBER 003N008E29C01S

ABOUT 9 MI NORTHWEST OF TWENTYNINE PALMS MARINE CORPS BASE HEADQUARTERS. DRILLED TEST WATER-TABLE WELL IN ALLUVIUM. DIAM 10 IN, DEPTH 201.3 FT. ALTITUDE OF LSD 1890.93 FT. RECORDS AVAILABLE 1952-67, 1970, 1973, 1975, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 86.61 FEET BELOW LAND SURFACE DATUM JAN 09, 1980.

LOWEST WATER LEVEL 90.47 FEET BELOW LAND SURFACE DATUM SEPT 30, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07, 1983	88.61	DEC 07, 1983	88.60	MAR 09, 1984	88.64	AUG 29, 1984	90.44
20	88.61	JAN 09, 1984	88.63	JUN 28	90.42	SEP 30	90.47
NOV 08	88.63	FEB 07	88.61	JUL 28	90.45		

Johnson Valley (7-18)

SITE NUMBER 342517116380601 LOCAL NUMBER 004N003E23G01S

ABOUT 4.5 MI NORTH OF HWY 247. DRILLED UNUSED WATER-TABLE WELL. DIAM 10 IN, DEPTH 107 FT, PERFORATED 76-107 FT. ALTITUDE OF LSD 2850 FT. RECORDS AVAILABLE 1950, 1975, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 73.80 FEET BELOW LAND SURFACE DATUM OCT 14, 1950.

LOWEST WATER LEVEL 75.50 FEET BELOW LAND SURFACE DATUM APR 25, 1975.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20, 1983	73.14	MAR 29, 1984	73.10	MAY 21, 1984	73.10

GROUND WATER

SAN BERNARDINO COUNTY--Continued

Johnson Valley (7-18)

SITE NUMBER 342440116371501 LOCAL NUMBER 004N003E24Q01S

ABOUT 3 MI NORTH OF HWY 247, NORTHEAST OF OLD WOMAN SPRINGS. DRILLED WATER-TABLE WELL IN ALLUVIUM. DIAM 12 IN, DEPTH 240.8 FT. ALTITUDE OF LSD 2833 FT. RECORDS AVAILABLE 1954-67, 1969-71, 1975, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 54.60 FEET BELOW LAND SURFACE DATUM MAY 06, 1954.

LOWEST WATER LEVEL 58.56 FEET BELOW LAND SURFACE DATUM FEB 28, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
MAR 29, 1984	56.01

Cadiz Valley (7-7)

SITE NUMBER 342513115220001 LOCAL NUMBER 004N015E24E01S

ABOUT 16.2 MI NORTHWEST OF HILLIGAN. DRILLED UNUSED WATER-TABLE WELL. DIAM UNKNOWN, DEPTH 267.9 FT. ALTITUDE OF LSD 848 FT. RECORDS AVAILABLE 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 258.30 FEET BELOW LAND SURFACE DATUM JUL 20, 1979.

LOWEST WATER LEVEL 258.41 FEET BELOW LAND SURFACE DATUM JAN 21, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21, 1983	258.40	APR 18, 1984	258.37

Chemehuevi Valley (7-43)

SITE NUMBER 342641114284301 LOCAL NUMBER 004N024E17H01S

ABOUT 3.2 MI SOUTHEAST OF LAKE HAVASU ROAD, IN CHEMEHUEVI WASH. DUG WATER-TABLE WELL IN ALLUVIUM. DIAM 36 IN, DEPTH 9 FT. ALTITUDE OF LSD 770 FT. RECORDS AVAILABLE 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 5.39 FEET BELOW LAND SURFACE DATUM OCT 20, 1983.

LOWEST WATER LEVEL 6.36 FEET BELOW LAND SURFACE DATUM APR 24, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
OCT 20, 1983	5.39

Lucerne Valley (7-19)

SITE NUMBER 343153116542301 LOCAL NUMBER 005N001E17D01S

ABOUT 6.5 MI NORTH OF LUCERNE VALLEY. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM. DIAM 14 IN, DEPTH 169.5 FT. ALTITUDE OF LSD 2880 FT. RECORDS AVAILABLE 1954-55, 1960-71, 1976, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 62.27 FEET BELOW LAND SURFACE DATUM APR 22, 1954.

LOWEST WATER LEVEL 143.74 FEET BELOW LAND SURFACE DATUM MAY 21, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20, 1983	143.37	MAR 28, 1984	143.43	MAY 21, 1984	143.74

SAN BERNARDINO COUNTY--Continued

Bristol Valley (7-8)

SITE NUMBER 343106115295901 LOCAL NUMBER 005N014E15K01S

ABOUT 0.5 MI EAST OF CADIZ. DRILLED UNUSED WATER-TABLE WELL. DIAM 16 IN, DEPTH 348.6 FT. ALTITUDE OF LSD 820 FT. RECORDS AVAILABLE 1910, 1929, 1954, 1964, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 208. FEET BELOW LAND SURFACE DATUM JAN 22, 1929.

LOWEST WATER LEVEL 220. FEET BELOW LAND SURFACE DATUM AUG 24, 1910.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21, 1983	214.21 S	APR 20, 1984	211.68 S

SITE NUMBER 343334115443301 LOCAL NUMBER 006N012E32R01S

IN AMBOY. DRILLED UNUSED WATER-TABLE WELL. DIAM 38 IN, DEPTH 82.1 FT, CASED TO 55 FT. ALTITUDE OF LSD 658 FT. RECORDS AVAILABLE 1957, 1964, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 41.85 FEET BELOW LAND SURFACE DATUM AUG 12, 1964.

LOWEST WATER LEVEL 52. FEET BELOW LAND SURFACE DATUM JUL 01, 1957.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 17, 1983	42.49	APR 20, 1984	42.33

SITE NUMBER 343407115421201 LOCAL NUMBER 006N012E35F01S

ABOUT 2 MI NORTH-NORTHWEST OF SALTUS. DRILLED UNUSED WATER-TABLE WELL. DIAM 16 IN, DEPTH 284 FT. ALTITUDE OF LSD 767 FT. RECORDS AVAILABLE 1955, 1957, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 190. FEET BELOW LAND SURFACE DATUM SEP 30, 1955.

LOWEST WATER LEVEL 203.61 FEET BELOW LAND SURFACE DATUM JUL 21, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
OCT 21, 1983	201.25

Fenner Valley (7-2)

SITE NUMBER 343803115203901 LOCAL NUMBER 006N016E06K01S

IN DANBY. DRILLED UNUSED WATER-TABLE WELL. DIAM 15.5 TO 12.5 TO 9.63 IN, DEPTH 983 FT IN 1925, 350.3 FT IN 1979, 15.5-IN CSG 0-245 FT, 12.5-IN CSG 224-419 FT, 9.63-IN CSG 409-983 FT, PERFORATED 75-920 FT. ALTITUDE OF LSD 1352 FT. MEASUREMENTS FURNISHED BY DEPARTMENT OF WATER RESOURCES 1925, 1953-61, 1964; MEASUREMENTS BY U.S. GEOLOGICAL SURVEY 1979 TO CURRENT YEAR. RECORDS AVAILABLE 1925, 1953-61, 1964, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 258.10 FEET BELOW LAND SURFACE DATUM MAY 16, 1960.

LOWEST WATER LEVEL 268.60 FEET BELOW LAND SURFACE DATUM SEP 13, 1953.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
OCT 21, 1983	258.76

S Nearby, pumping.

GROUND WATER

SAN BERNARDINO COUNTY--Continued

Penner Valley (7-2)

SITE NUMBER 344655115155601 LOCAL NUMBER 008N016E13M01S

ABOUT 4.3 MI SOUTH OF FREEWAY 40. DRILLED UNUSED WELL. DIAM 16 IN, DEPTH GREATER THAN 1000 FT. ALTITUDE OF LSD 1840 FT. RECORDS AVAILABLE 1956, 1981 TO CURRENT YEAR.

HIGHEST WATER LEVEL 400.00 FEET BELOW LAND SURFACE DATUM JAN 01, 1956.

LOWEST WATER LEVEL 406.80 FEET BELOW LAND SURFACE DATUM OCT 20, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
OCT 20, 1983	406.80

Lower Mojave River Valley (6-40)

SITE NUMBER 345110116473601 LOCAL NUMBER 009N002E20Q01S

AT DAGGETT AIRPORT. UNUSED WATER TABLE WELL. DIAM 8 IN, DEPTH 90 FT. ALTITUDE OF LSD 1921.4 FT. RECORDS IN 1932, 1941-48, 1952-57, 1959 FURNISHED BY U.S. BUREAU OF RECLAMATION AND SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT. RECORDS AVAILABLE 1932, 1941-48, 1952-71, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 41.81 FEET BELOW LAND SURFACE DATUM NOV 15, 1945.

LOWEST WATER LEVEL 88.98 FEET BELOW LAND SURFACE DATUM DEC. 13, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
MAR 28, 1984	85.07

Piute Valley (7-45)

SITE NUMBER 345629114472601 LOCAL NUMBER 010N021E21Q02S

NORTHEAST OF IBIS. UNUSED WATER-TABLE WELL. DIAM 16 IN, DEPTH 820 FT, PERFORATED 130-635 FT. ALTITUDE OF LSD 1460 FT. RECORDS AVAILABLE 1917, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 118.40 FEET BELOW LAND SURFACE DATUM APR 19, 1984.

LOWEST WATER LEVEL 130.00 FEET BELOW LAND SURFACE DATUM OCT 25, 1917.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20, 1983	118.49	APR 19, 1984	118.40

Kelso Valley (6-31)

SITE NUMBER 350040115385701 LOCAL NUMBER 011N012E25G02S

IN KELSO. DRILLED PUBLIC SUPPLY WATER-TABLE WELL. DIAM 16 IN, DEPTH 700 FT. ALTITUDE OF LSD 2120 FT. RECORDS AVAILABLE 1978, 1980-82, 1984 TO CURRENT YEAR.

HIGHEST WATER LEVEL 454.00 FEET BELOW LAND SURFACE DATUM MAY 19, 1982.

LOWEST WATER LEVEL 484.1 FEET BELOW LAND SURFACE DATUM JUL 19, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
MAR 22, 1984	471.25

SAN BERNARDINO COUNTY--Continued

Cronese Valley (6-35)

SITE NUMBER 350627116152401 LOCAL NUMBER 012N007E29A01S

ABOUT 15.5 MI WEST-SOUTHWEST OF BAKER. DRILLED UNUSED WATER-TABLE WELL. DIAM 12 IN, DEPTH 46.3 FT. ALTITUDE OF LSD 1100 FT. RECORDS AVAILABLE 1919, 1954, 1965, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 31.1 FEET BELOW LAND SURFACE DATUM DEC 05, 1919.

LOWEST WATER LEVEL 39.88 FEET BELOW LAND SURFACE DATUM AUG 08, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
MAR 22, 1984	36.06

Lanfair Valley (7-1)

SITE NUMBER 350923115093501 LOCAL NUMBER 012N017E04D01S

NORTHWEST OF LANFAIR BUTTES. STOCK WATER-TABLE WELL. DIAM 8 IN, DEPTH 700 FT. ALTITUDE OF LSD 3980 FT. RECORDS AVAILABLE 1937, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 509.9 FEET BELOW LAND SURFACE DATUM NOV 17, 1983.

LOWEST WATER LEVEL 570.00 FEET BELOW LAND SURFACE DATUM JAN 01, 1937.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
NOV 17, 1983	509.9

SITE NUMBER 350844115092901 LOCAL NUMBER 012N017E04N01S

LOCATED IN FENNER VALLEY. DIAM 72 IN, DEPTH 17 FT. ALTITUDE OF LSD 3960 FT. RECORDS AVAILABLE 1981 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.73 FEET BELOW LAND SURFACE DATUM NOV 17, 1983.

LOWEST WATER LEVEL 11.00 FEET BELOW LAND SURFACE DATUM AUG 31, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
NOV 17, 1983	3.73

Soda Lake Valley (6-33)

SITE NUMBER 351148116022101 LOCAL NUMBER 013N009E20J01S

ABOUT 5 MI SOUTHEAST OF BAKER. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM OF PLEISTOCENE AGE. DIAM 16 IN, DEPTH 400 FT. ALTITUDE OF LSD 980 FT. RECORDS AVAILABLE 1954-56, 1958-68, 1970, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 64.69 FEET BELOW LAND SURFACE DATUM JUN 30, 1978.

LOWEST WATER LEVEL 66.57 FEET BELOW LAND SURFACE DATUM MAR 14, 1962.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
MAR 22, 1984	65.87

GROUND WATER

SAN BERNARDINO COUNTY--Continued

Bicycle Valley (6-25)

SITE NUMBER 351830116364501 LOCAL NUMBER 014N003E13K01S

ABOUT 5 MI NORTHEAST OF CAMP IRWIN. DRILLED INSTITUTION WATER-TABLE WELL. DIAM 14 TO 10 IN, DEPTH 600 FT, 14-IN CSG 0-430 FT, 10-IN CSG 420-600 FT, PERFORATED 180-410, 430-580 FT. ALTITUDE OF LSD 2393.8 FT. RECORDS AVAILABLE 1965, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 173.00 FEET BELOW LAND SURFACE DATUM JUN 14, 1965.

LOWEST WATER LEVEL 192.83 FEET BELOW LAND SURFACE DATUM NOV 16, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
NOV 15, 1983	194.14 R

Soda Lake Valley (6-33)

SITE NUMBER 351610116035401 LOCAL NUMBER 014N009E30K01S

ABOUT 1 MI NORTHEAST OF BAKER. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM. DIAM 6 IN, DEPTH 95.3 FT. ALTITUDE OF LSD 965 FT. RECORDS AVAILABLE 1954-68, 1970, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 75.32 FEET BELOW LAND SURFACE DATUM MAR 03, 1955.

LOWEST WATER LEVEL 76.93 FEET BELOW LAND SURFACE DATUM OCT 31, 1956.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
MAR 22, 1984	76.50

Goldstone Valley (6-48)

SITE NUMBER 352306116540901 LOCAL NUMBER 015N001E20F01S

ABOUT 7.9 MI NORTH OF GOLDSTONE. DRILLED UNUSED WATER-TABLE WELL. DIAM 4 IN, DEPTH 181 FT. ALTITUDE OF LSD 3030 FT. RECORDS AVAILABLE 1969, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 134.22 FEET BELOW LAND SURFACE DATUM MAR 21, 1984.

LOWEST WATER LEVEL 137.02 FEET BELOW LAND SURFACE DATUM AUG 20, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
MAR 21, 1984	134.22

Ivanpah Valley (6-30)

SITE NUMBER 352713115204401 LOCAL NUMBER 015N015E59N01S

ABOUT 4.5 MI WEST OF NIPTON. DRILLED UNUSED WATER-TABLE WELL. DIAM 18 IN, DEPTH 125 FT WITH 12 FT TUNNEL AT BOTTOM IN 1893, 110.5 FT IN 1969. ALTITUDE OF LSD 2630 FT. RECORDS AVAILABLE 1916-17, 1953-56, 1958-60, 1965, 1969, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 90.00 FEET BELOW LAND SURFACE DATUM JAN 15, 1965.

LOWEST WATER LEVEL 105.00 FEET BELOW LAND SURFACE DATUM SEP 14, 1954.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 16, 1983	100.50	APR 19, 1984	110.10 P

R Recently, pumped.

P Pumping.

SAN BERNARDINO COUNTY--Continued

Piggs Valley (6-23)

SITE NUMBER 352722115583701 LOCAL NUMBER 016N009E24N01S

ABOUT 10 MI NORTHEAST OF SILVER LAKE. UNUSED WATER-TABLE WELL. DIAM 60 IN, DEPTH 31.0 FT. ALTITUDE OF LSD 3000 FT. RECORDS AVAILABLE 1965, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 11.18 FEET BELOW LAND SURFACE DATUM JUN 24, 1965.

LOWEST WATER LEVEL 14.00 FEET BELOW LAND SURFACE DATUM OCT 06, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
MAR 22, 1984	11.42

Upper Kingston Valley (6-22)

SITE NUMBER 352626115402301 LOCAL NUMBER 016N012E26N01S

ABOUT 7.3 MI NORTHEAST OF PASO ALTO. DRILLED STOCK WATER-TABLE WELL. DIAM 48 IN, DEPTH 64.7 FT. ALTITUDE OF LSD 3725 FT. RECORDS FURNISHED BY DEPARTMENT OF WATER RESOURCES 1956-64. RECORDS AVAILABLE 1956-64, 1969, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 44.63 FEET BELOW LAND SURFACE DATUM JUN 20, 1980.

LOWEST WATER LEVEL 64.00 FEET BELOW LAND SURFACE DATUM DEC 04, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 16, 1983	44.99 R	APR 19, 1984	44.50 R

SITE NUMBER 353157115454801 LOCAL NUMBER 017N011E25M01S

IN SHADOW VALLEY, NORTHWEST OF VALLEY WELLS STATION. DIAM 10 IN, DEPTH 376 FT. ALTITUDE OF LSD 3320 FT. RECORDS AVAILABLE 1933, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 358.50 FEET BELOW LAND SURFACE DATUM JAN 15, 1981.

LOWEST WATER LEVEL 388.00 FEET BELOW LAND SURFACE DATUM JUN 22, 1933.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
NOV 16, 1983	358.59

Lower Kingston Valley (6-21)

SITE NUMBER 354122116175601 LOCAL NUMBER 019N006E236N01S

ABOUT 22 MI SOUTH-SOUTHEAST OF SHOSHONE. DRILLED DOMESTIC WATER-TABLE WELL. DIAM 6 IN, DEPTH 295 FT. ALTITUDE OF LSD 480 FT. RECORDS AVAILABLE 1978-79, 1981 TO CURRENT YEAR.

HIGHEST WATER LEVEL 205.30 FEET BELOW LAND SURFACE DATUM JUL 28, 1978.

LOWEST WATER LEVEL 210.70 FEET BELOW LAND SURFACE DATUM APR 17, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
MAR 22, 1984	210.48

R Recently, pumped.

GROUND WATER

SAN BERNARDINO COUNTY--Continued

Mesquite Valley (6-29)

SITE NUMBER 354642115383601 LOCAL NUMBER 019N012E13D01S

ABOUT 3 MI SOUTHWEST OF SANDY. DRILLED UNUSED WATER-TABLE WELL. DIAM 12 IN, DEPTH 500 FT. ALTITUDE OF LSD 2580 FT. RECORDS AVAILABLE 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 37.06 FEET BELOW LAND SURFACE DATUM JUL 10, 1979.

LOWEST WATER LEVEL 39.11 FEET BELOW LAND SURFACE DATUM APR 19, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 16, 1983	38.96	APR 19, 1984	39.11

Upper Santa Ana Valley (8-2)

SITE NUMBER 340743117162001 LOCAL NUMBER 001N004N3SLO1S

ABOUT 0.14 MI SOUTHWEST OF INTERSECTION OF 16TH STREET AND CRESTVIEW IN SAN BERNARDINO. DRILLED UNUSED WATER-TABLE WELL. DIAM 3 IN, DEPTH 235.5 FT. ALTITUDE OF LSD 1130 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES 1904-70; MEASUREMENTS BY U.S. GEOLOGICAL SURVEY 1971 TO CURRENT YEAR. RECORDS AVAILABLE 1904-74, 1979, 1981 TO CURRENT YEAR.

HIGHEST WATER LEVEL 7.22 FEET ABOVE LAND SURFACE DATUM MAR 02, 1917.

LOWEST WATER LEVEL 216.14 FEET BELOW LAND SURFACE DATUM AUG 31, 1967.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28, 1983	75.0	FEB 28, 1984	62.30

Lucerne Valley (7-19)

SITE NUMBER 342519116591401 LOCAL NUMBER 004N001W21G01S

ABOUT 0.4 MI WEST OF INTERSECTION OF CUSTER AVENUE AND SUTTER ROAD. DOMESTIC WELL. DIAM UNKNOWN, DEPTH 250 FT. ALTITUDE OF LSD 3121 FT. RECORDS AVAILABLE 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 168.35 FEET BELOW LAND SURFACE DATUM DEC 11, 1980.

LOWEST WATER LEVEL 169.69 FEET BELOW LAND SURFACE DATUM JAN 17, 1985.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20, 1983	169.42 R	MAR 28, 1984	169.43	MAY 21, 1984	169.60

WATER QUALITY DATA

LOCAL IDENT- I- FIER	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (UNHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM
004N001W21G01S	84-06-19	410	7.8	24.5	120	0	35	6.9	41	43

SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
2	2.5	142	53	9.4	.60	27	260	.82	.01	90	10	2

R Recently, pumped.

SAN BERNARDINO COUNTY--Continued

Upper Mojave River Valley (6-42)

SITE NUMBER 342813117123301 LOCAL NUMBER 004N003W05A025

ABOUT 0.1 MI WEST OF INTERSECTION OF BEAR VALLEY ROAD AND KIOHA ROAD IN APPLE VALLEY. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM. DIAM 12 IN, DEPTH 300 FT, PERFORATED 238-268 FT. ALTITUDE OF LSD 3002 FT. RECORDS AVAILABLE 1953, 1956, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 102.12 FEET BELOW LAND SURFACE DATUM MAR 21, 1980.

LOWEST WATER LEVEL 195.93 FEET BELOW LAND SURFACE DATUM DEC. 29, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1983	194.23	MAR 28, 1984	193.29	MAY 21, 1984	194.39

WATER QUALITY DATA

LOCAL IDENT- IFIER	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM
004N003W05A025	84-06-19	330	8.2	21.0	110	25	31	7.3	20	28

SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LILITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
.9	2.0	83	60	8.7	.40	30	210	.49	.02	40	4	1

SITE NUMBER 343122117094501 LOCAL NUMBER 005N003W14G01S

ABOUT 1.5 MI NORTHEAST OF APPLE VALLEY. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM. DIAM 8 IN, DEPTH 226.3 FT. ALTITUDE OF LSD 2916 FT. RECORDS AVAILABLE 1957, 1964-71, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 81.64 FEET BELOW LAND SURFACE DATUM APR 25, 1957.

LOWEST WATER LEVEL 111.29 FEET BELOW LAND SURFACE DATUM OCT 19, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1983	103.88	MAY 21, 1984	103.07

SITE NUMBER 343150117151502 LOCAL NUMBER 005N004W11P03S

IN APPLE VALLEY. DRILLED DOMESTIC WATER-TABLE WELL. DIAM 8 IN, DEPTH 145 FT. ALTITUDE OF LSD 2788 FT. RECORDS AVAILABLE 1978, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 51.27 FEET BELOW LAND SURFACE DATUM OCT 19, 1983.

LOWEST WATER LEVEL 55.28 FEET BELOW LAND SURFACE DATUM MAY 21, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1983	51.27	MAY 21, 1984	55.28

GROUND WATER

SAN BERNARDINO COUNTY--Continued

Upper Mojave River Valley (6-42)

SITE NUMBER 343900117261801 LOCAL NUMBER 006N005H19J02S

ABOUT 1.5 MI NORTHWEST OF ADELANTO. DRILLED UNUSED WATER-TABLE WELL. DIAM 9 IN, DEPTH 1200 FT. ALTITUDE OF LSD 2838 FT. RECORDS AVAILABLE 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 78.3 FEET BELOW LAND SURFACE DATUM APR 17, 1979.

LOWEST WATER LEVEL 78.87 FEET BELOW LAND SURFACE DATUM MAR 06, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
MAR 28, 1984	78.80

Middle Mojave River Valley (6-41)

SITE NUMBER 344728117145601 LOCAL NUMBER 008N004H12Q01S

ABOUT 16 MI SOUTHWEST OF BARSTON. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM. DIAM 8 IN, DEPTH 49.1 FT. ALTITUDE OF LSD 2329 FT. RECORDS AVAILABLE 1931-32, 1935-37, 1939-41, 1943-64, 1966-70, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 7.16 FEET BELOW LAND SURFACE DATUM MAY 13, 1954.

LOWEST WATER LEVEL 33.50 FEET BELOW LAND SURFACE DATUM OCT 31, 1963.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
MAR 28, 1984	8.50

SITE NUMBER 344726117145501 LOCAL NUMBER 008N004H13B01S

NORTH OF NATIONAL TRAILS HWY, 15 MI SOUTHWEST OF BARSTON. DRILLED WITHDRAWAL WATER-TABLE WELL. DIAM 10 IN, DEPTH UNKNOWN. ALTITUDE OF LSD 2330 FT.

LOCAL IDENT- I- FIER	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (HG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (HG/L CACO3)	CALCIUM DIS- SOLVED (HG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (HG/L AS MG)	SODIUM, DIS- SOLVED (HG/L AS NA)	PERCENT SODIUM
008N004H13B01S	84-06-18	1670	7.5	22.5	470	63	150	23	200	48

SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (HG/L AS K)	ALKA- LINITY FIELD (HG/L AS CACO3)	SULFATE DIS- SOLVED (HG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (HG/L AS CL)	FLUO- RIDE, DIS- SOLVED (HG/L AS F)	SILICA, DIS- SOLVED (HG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (HG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (HG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (HG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
4	2.9	407	220	180	.70	29	1100	4.7	.04	470	22	1

SAN BERNARDINO COUNTY -Continued

Lower Mojave River Valley (6-40)

SITE NUMBER 345243116563802 LOCAL NUMBER 009N001W11R02S

NEAR BARSTON. DRILLED UNUSED WATER-TABLE WELL. DIAM 2 IN, DEPTH 102 FT, SAND POINT 100-102 FT. ALTITUDE OF LSD 2032.51 FT. RECORDS AVAILABLE 1972-73, 1975 TO CURRENT YEAR.

HIGHEST WATER LEVEL 19.02 FEET BELOW LAND SURFACE DATUM JUN 17, 1983.

LOWEST WATER LEVEL 31.80 FEET BELOW LAND SURFACE DATUM NOV 03, 1976.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1983	20.13	MAR 28, 1984	19.53	MAY 21, 1984	19.83	JUL 17, 1984	20.73

Middle Mojave River Valley (6-41)

SITE NUMBER 345153117080701 LOCAL NUMBER 009N003W13R01S

ABOUT 2 MI SOUTHWEST OF LENWOOD. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM. DIAM 12 IN, DEPTH 212 FT. ALTITUDE OF LSD 2245 FT. RECORDS AVAILABLE 1954, 1963-71, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 60.60 FEET BELOW LAND SURFACE DATUM APR 20, 1954.

LOWEST WATER LEVEL 89.14 FEET BELOW LAND SURFACE DATUM NOV 14, 1968.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1983	74.05	MAY 21, 1984	74.40

Harper Valley (6-47)

SITE NUMBER 350039117185301 LOCAL NUMBER 011N004W29R01S

ABOUT 2.9 MI EAST OF LOCKHART. DRILLED UNUSED WATER-TABLE WELL. DIAM 12 IN, DEPTH 500 FT IN 1952, 303 FT IN 1968, 361.2 FT IN 1978. ALTITUDE OF LSD 2045 FT. RECORDS AVAILABLE 1953-71, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 83.42 FEET BELOW LAND SURFACE DATUM NOV 17, 1960.

LOWEST WATER LEVEL 176.75 FEET BELOW LAND SURFACE DATUM JUN 22, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20, 1983	170.66	MAR 29, 1984	173.52 S	MAY 21, 1984	175.47 S

S Nearby, pumping.

GROUND WATER
SAN BERNARDINO COUNTY--Continued
Harper Valley (6-47)

SITE NUMBER 350038117184501 LOCAL NUMBER 011N004W32A01S

NEAR HARPER LAKE AND LOCKHART ROAD. DRILLED WITHDRAWAL WATER-TABLE WELL. DIAM 14 IN, DEPTH 425 FT, PERFORATED 158-425 FT. ALTITUDE OF LSD 2044 FT.

WATER QUALITY DATA

LOCAL IDENT- IFIER	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM
011N004W32A01S	84-06-18	1960	7.7	27.0	230	110	75	11	330	75

SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
10	5.7	121	240	400	.70	68	1200	2.0	.01	1200	60	<10

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

SITE NUMBER 350235117321501 LOCAL NUMBER 011N006W17P02S

ABOUT 6 MI NORTHEAST OF BORON. DRILLED UNUSED WATER-TABLE WELL. DIAM 10 IN, DEPTH 647 FT. ALTITUDE OF LSD 2550 FT. RECORDS AVAILABLE 1953, 1968, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 262.00 FEET BELOW LAND SURFACE DATUM JUL 13, 1953.

LOWEST WATER LEVEL 265.52 FEET BELOW LAND SURFACE DATUM AUG 09, 1968.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1983	264.07	MAR 29, 1984	263.95	MAY 21, 1984	263.98

Upper Santa Ana Valley (8-2)

SITE NUMBER 340416117205101 LOCAL NUMBER 001S004W19E01S

EAST OF MERIDIAN AVENUE, NORTH OF VALLEY BLVD. DRILLED OBSERVATION WELL IN ALLUVIUM. DIAM 2 IN, DEPTH 222 FT, CASED TO 251 FT, PERFORATED 223-244 FT. ALTITUDE OF LSD 1038.9 FT. RECORDS AVAILABLE 1964, 1967-70, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 149.85 FEET BELOW LAND SURFACE DATUM APR 11, 1984.

LOWEST WATER LEVEL 193.94 FEET BELOW LAND SURFACE DATUM JAN 02, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 30, 1983	151.67	APR 11, 1984	149.85	SEP 21, 1984	150.21

SAN DIEGO COUNTY
Borrego Valley (7-24)

SITE NUMBER 331800116210001 LOCAL NUMBER 010S006E21A01S

ABOUT 0.1 MI SOUTHEAST OF INTERSECTION OF BORREGO VALLEY AND HENDERSON CANYON ROADS. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM. DIAM 12 IN, DEPTH 310 FT. ALTITUDE OF LSD 640 FT. RECORDER INSTALLED BY CALIFORNIA STATE WATER RESOURCES DEPARTMENT IN 1952. RECORDS AVAILABLE 1952-76, 1978, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 130.55 FEET BELOW LAND SURFACE DATUM JAN 03, 1953.

LOWEST WATER LEVEL 185.48 FEET BELOW LAND SURFACE DATUM JUL 22, 1965.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
SEP 17, 1984	181.31

SITE NUMBER 331432116194602 LOCAL NUMBER 011S006E11D02S

ABOUT 1 MI SOUTHEAST OF INTERSECTION OF BORREGO VALLEY ROAD AND PALM CANYON DRIVE. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM. DIAM 14 IN, DEPTH 218 FT. ALTITUDE OF LSD 500 FT. RECORDS AVAILABLE 1953-71, 1978, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 17.53 FEET BELOW LAND SURFACE DATUM NOV 16, 1953.

LOWEST WATER LEVEL 65.60 FEET BELOW LAND SURFACE DATUM AUG 14, 1958.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
SEP 17, 1984	44.37

Ocotillo Valley (7-25)

SITE NUMBER 330639116074701 LOCAL NUMBER 012S008E22E01S

ABOUT 2.5 MI SOUTHEAST OF INTERSECTION OF HWY 78 AND SPLIT MTN ROAD. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM. DIAM 16 IN, DEPTH 226 FT. ALTITUDE OF LSD 110 FT. RECORDS AVAILABLE 1951, 1953-71, 1978, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 101.83 FEET BELOW LAND SURFACE DATUM NOV 10, 1954.

LOWEST WATER LEVEL 119.16 FEET BELOW LAND SURFACE DATUM NOV 10, 1970.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
SEP 17, 1984	109.07

Vallecito-Carrizo Valley (7-28)

SITE NUMBER 325848116260301 LOCAL NUMBER 014S005E02J03S

ABOUT 0.2 MI NORTH OF AGUA CALIENTE. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM. DIAM 10 IN, DEPTH 181 FT. ALTITUDE OF LSD 2030 FT. RECORDS AVAILABLE 1978, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 41.87 FEET BELOW LAND SURFACE DATUM SEP 18, 1984.

LOWEST WATER LEVEL 74.10 FEET BELOW LAND SURFACE DATUM DEC 27, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
SEP 18, 1984	41.87

GROUND WATER

SAN DIEGO COUNTY--Continued

Vallecito-Carrizo Valley (7-28)

SITE NUMBER 325808116232801 LOCAL NUMBER 014S006E08F03S

ABOUT 1 MI NORTHEAST OF TROUTMAN MTN. UNUSED WATER-TABLE WELL. DIAM 8 IN, DEPTH 110 FT.
ALTITUDE OF LSD 1645 FT. RECORDS AVAILABLE 1960, 1962, 1964-66, 1968, 1978, 1980 TO CURRENT
YEAR.

HIGHEST WATER LEVEL 65.31 FEET BELOW LAND SURFACE DATUM MAR 16, 1962.

LOWEST WATER LEVEL 78.20 FEET BELOW LAND SURFACE DATUM OCT 01, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
SEP 18, 1984	72.00

San Diego River Valley (9-15)

SITE NUMBER 325159116551101 LOCAL NUMBER 015S001E18L03S

ABOUT 0.3 MI NORTHEAST OF INTERSECTION OF MAPLEVIEW STREET AND HWY 67, NORTH OF LAKESIDE. DRILLED
UNUSED WATER-TABLE WELL IN ALLUVIUM. DIAM UNKNOWN, DEPTH UNKNOWN. ALTITUDE OF LSD 395 FT. RECORDS
AVAILABLE 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 15.41 FEET BELOW LAND SURFACE DATUM MAR 11, 1983.

LOWEST WATER LEVEL 21.80 FEET BELOW LAND SURFACE DATUM JUL 10, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
DEC 02, 1983	18.37

Vallecito-Carrizo Valley (7-28)

SITE NUMBER 325215116110701 LOCAL NUMBER 015S008E17D02S

WEST OF BOW WILLOW RANGER STATION. DRILLED DOMESTIC WATER-TABLE WELL. DIAM 6 IN, DEPTH 87 FT.
ALTITUDE OF LSD 610 FT. RECORDS AVAILABLE 1966, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 39.07 FEET BELOW LAND SURFACE DATUM SEP 18, 1984.

LOWEST WATER LEVEL 71.40 FEET BELOW LAND SURFACE DATUM FEB 01, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
SEP 18, 1984	39.07

SAN DIEGO COUNTY--Continued

San Luis Rey Valley (9-7)

SITE NUMBER 332141117033401 LOCAL NUMBER 009S002H26P01S

ABOUT .24 MI SOUTH OF HWY 76. DUG PUBLIC SUPPLY WATER-TABLE WELL. DIAM 96 IN, DEPTH 63 FT.
 ALTITUDE OF LSD 422.7 FT. RECORDS AVAILABLE 1915, 1941, 1961, 1971-72, 1975 TO CURRENT YEAR.

HIGHEST WATER LEVEL 7.01 FEET BELOW LAND SURFACE DATUM MAR 02, 1915.

LOWEST WATER LEVEL 40.56 FEET BELOW LAND SURFACE DATUM NOV 17, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 1983	11.90	DEC 08, 1983	11.67	FEB 15, 1984	11.70	AUG 29, 1984	18.72

San Mateo Valley (9-2)

SITE NUMBER 332402117345701 LOCAL NUMBER 009S007H11L01S

ON CAMP PENDLETON MARINE CORPS BASE, SOUTHEAST OF SAN CLEMENTE. DRILLED UNUSED WATER-TABLE WELL IN
 SAND AND GRAVEL OF QUATERNARY AGE. DIAM 20 TO 12 IN, DEPTH 100 FT IN 1971, 42 FT IN 1972, CAGED TO
 100 FT, PERFORATED 5-100 FT. ALTITUDE OF LSD 36.95 FT. RECORDS FURNISHED BY CAMP PENDLETON.
 RECORDS AVAILABLE 1966 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.74 FEET BELOW LAND SURFACE DATUM MAR 13, 1979.

LOWEST WATER LEVEL 18.05 FEET BELOW LAND SURFACE DATUM JAN 03, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1983	6.35	JAN 1984	6.08	APR 1984	6.67	JUL 1984	9.17
NOV	5.22	FEB	6.43	MAY	7.18	AUG	10.00
DEC	5.69	MAR	6.64	JUN	8.29	SEP	10.46

San Onofre Valley (9-3)

SITE NUMBER 332303117332801 LOCAL NUMBER 009S007H13R01S

ABOUT 0.6 MI SOUTH OF BASILONE ROAD NEAR SAN ONOFRE CREEK. DRILLED UNUSED WATER-TABLE WELL. DIAM 24
 IN, DEPTH 225.7 FT, PERFORATED 94-164, 215-225 FT. ALTITUDE OF LSD 51.26 FT. RECORDS FURNISHED
 BY CAMP PENDLETON. RECORDS AVAILABLE 1956 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.09 FEET BELOW LAND SURFACE DATUM FEB 26, 1973.

LOWEST WATER LEVEL 37.53 FEET BELOW LAND SURFACE DATUM FEB 28, 1962.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1983	14.42	JAN 1984	9.72	APR 1984	14.90	JUL 1984	18.01
NOV	12.49	FEB	11.49	MAY	16.16	AUG	18.94
DEC	10.61	MAR	13.33	JUN	17.14	SEP	19.84

SAN DIEGO COUNTY--Continued

San Luis Rey Valley (9-7)

SITE NUMBER 331826116585201 LOCAL NUMBER 010S001W16H01S

NORTH OF PAUMA VALLEY. DRILLED IRRIGATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE. DIAM UNKNOWN TO 245 FT, 10 IN 245-365 FT, 8 IN 364-419 FT, DEPTH 419 FT, PERFORATED 270-360, 364-419 FT. ALTITUDE OF LSD 885 FT. RECORDS AVAILABLE 1961, 1967, 1971-73, 1975 TO CURRENT YEAR.

HIGHEST WATER LEVEL 117.39 FEET BELOW LAND SURFACE DATUM MAR 31, 1980.

LOWEST WATER LEVEL 223.50 FEET BELOW LAND SURFACE DATUM MAR 21, 1967.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 1983	132.64	FEB 15, 1984	126.59	APR 30, 1984	130.66	JUN 25, 1984	138.03
DEC 08	123.40 R						

WATER QUALITY DATA

LOCAL IDENT- I- FIER	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM
010S001W16H01S	84-08-09	1000	7.3	24.0	330	140	76	35	81	34

SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
2	3.4	191	120	110	.20	44	580	11	.04	30	15	4

SITE NUMBER 331613116570901 LOCAL NUMBER 010S001W35C01S

WEST OF HWY 6 AND SOUTH OF SECTION LINE ROAD. DRILLED UNUSED WATER-TABLE WELL. DIAM 16 IN, DEPTH 105 FT. ALTITUDE OF LSD 860 FT. RECORDS AVAILABLE 1938, 1940, 1950, 1959-63, 1971-73, 1975 TO CURRENT YEAR.

HIGHEST WATER LEVEL 9.16 FEET BELOW LAND SURFACE DATUM MAR 31, 1980.

LOWEST WATER LEVEL 48.50 FEET BELOW LAND SURFACE DATUM JUN 01, 1963.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 1983	12.45	FEB 15, 1984	14.13	JUN 25, 1984	13.13	AUG 29, 1984	14.14
DEC 08	12.47	APR 30	13.02				

R Recently, pumped.

SAN DIEGO COUNTY--Continued

Santa Margarita Valley (9-4)

SITE NUMBER 331544117222101 LOCAL NUMBER 0105005H35K055

ABOUT 0.5 MI NORTHWEST OF VANDERGRIFF BLVD AND EL CAMINO REAL. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM. DIAM 6 IN, DEPTH 150.4 FT, PERFORATED 99-119, 129-149 FT. ALTITUDE OF LSD 26.57 FT. RECORDS FURNISHED BY CAMP PENDLETON. RECORDS AVAILABLE 1951 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1.19 FEET BELOW LAND SURFACE DATUM JAN 18, 1979.

LOWEST WATER LEVEL 25.61 FEET BELOW LAND SURFACE DATUM AUG 17, 1951.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1983	4.98	JAN 1984	3.55	APR 1984	3.93	JUL 1984	6.27
NOV	4.95	FEB	3.30	MAY	5.28	AUG	6.27
DEC	3.26	MAR	3.53	JUN	6.06	SEP	7.50

Mission Valley (9-14)

SITE NUMBER 324630117082701 LOCAL NUMBER 016S003H13Q04S

ABOUT 0.3 MI SOUTHWEST OF INTERSECTION OF FRIARS ROAD AND STADIUM WAY, NORTH OF UNIVERSITY HEIGHTS. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM. DIAM 12 IN. DEPTH 52.45 FT. ALTITUDE OF LSD 45 FT. RECORDS AVAILABLE 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 11.60 FEET BELOW LAND SURFACE DATUM JUL 14, 1980.

LOWEST WATER LEVEL 14.86 FEET BELOW LAND SURFACE DATUM AUG 25, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
DEC 02, 1983	13.59

Sweetwater Valley (9-17)

SITE NUMBER 324005117012001 LOCAL NUMBER 017S001H30B01S

ABOUT 0.25 MI FROM SOUTHEAST CORNER OF BONITA AND CENTRAL AVENUES IN SUNNYSIDE. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM. DIAM 12 IN, DEPTH UNKNOWN. ALTITUDE OF LSD 85 FT. RECORDS AVAILABLE 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 7.02 FEET BELOW LAND SURFACE DATUM MAR 11, 1983.

LOWEST WATER LEVEL 12.83 FEET BELOW LAND SURFACE DATUM AUG 25, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
DEC 02, 1983	10.36

Otay Valley (9-18)

SITE NUMBER 323530117050701 LOCAL NUMBER 018S002H21H03S

ABOUT 0.25 MI SOUTH OF MAIN STREET NEAR INTERSTATE 5, EAST OF IMPERIAL BEACH. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM. DIAM 13 IN, DEPTH UNKNOWN. ALTITUDE OF LSD 12 FT. RECORDS AVAILABLE 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 7.52 FEET BELOW LAND SURFACE DATUM MAR 11, 1983.

LOWEST WATER LEVEL 11.03 FEET BELOW LAND SURFACE DATUM DEC 07, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
DEC 02, 1983	8.39

SAN DIEGO COUNTY--Continued

Tijuana Basin (9-19)

SITE NUMBER 323257117051201 LOCAL NUMBER 019S002M04H08S

ABOUT 0.23 MI WEST OF HOLLISTER STREET, SOUTHEAST OF IMPERIAL BEACH. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM. DIAM 12 IN, DEPTH UNKNOWN. ALTITUDE OF LSD 26 FT. RECORDS AVAILABLE 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 4.15 FEET BELOW LAND SURFACE DATUM MAR 11, 1983.

LOWEST WATER LEVEL 12.87 FEET BELOW LAND SURFACE DATUM DEC 07, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
DEC 02, 1983	8.30

SAN LUIS OBISPO COUNTY

Cuyama Valley (5-13)

SITE NUMBER 345604119340001 LOCAL NUMBER 010N025H20H01S

ABOUT 1.4 MI EAST OF CUYAMA NEAR HWY 166. DRILLED IRRIGATION WATER-TABLE WELL. DIAM 10 IN, DEPTH 656 FT IN 1946, PERFORATED 108-656 FT. ALTITUDE OF LSD 2335 FT. RECORDS AVAILABLE 1946-47, 1956, 1961, 1966, 1968, 1979-81, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 59.00 FEET BELOW LAND SURFACE DATUM JUL 08, 1946.

LOWEST WATER LEVEL 336.49 FEET BELOW LAND SURFACE DATUM APR 26, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
MAY 12, 1984	310.14

Arroyo Grande Valley (5-11)

SITE NUMBER 350312120314101 LOCAL NUMBER 011N035H11B01S

ABOUT 5.5 MI SOUTHWEST OF NIPOMO MESA. DRILLED DOMESTIC WATER-TABLE WELL. DIAM 8 IN, DEPTH 360 FT. ALTITUDE OF LSD 385 FT. RECORDS FURNISHED BY SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT; MEASURED PERIODICALLY BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1960, 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 306.35 FEET BELOW LAND SURFACE DATUM JUN 30, 1960.

LOWEST WATER LEVEL 350.70 FEET BELOW LAND SURFACE DATUM MAR 20, 1972.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
OCT 21, 1983	349.6

SANTA BARBARA COUNTY

Carpinteria Basin (5-18)

SITE NUMBER 342427119294601 LOCAL NUMBER 004N025H21R01S

NORTHEAST OF CARPINTERIA. DRILLED UNUSED WATER-TABLE WELL. DIAM 12 IN, DEPTH 468 FT, CASED TO 434 FT, PERFORATED 82-90, 120-150, 170-176, 239-240, 289-304, 314-318, 340-341, 356-386, 412-416 FT. ALTITUDE OF LSD 127 FT. MEASUREMENTS BEGINNING 2/15/78 COLLECTED BY U.S. GEOLOGICAL SURVEY AND CARPINTERIA COUNTY WATER DISTRICT. RECORDS AVAILABLE 1941 TO CURRENT YEAR.

HIGHEST WATER LEVEL 30.28 FEET BELOW LAND SURFACE DATUM FEB 17, 1984.

LOWEST WATER LEVEL 126.08 FEET BELOW LAND SURFACE DATUM NOV 26, 1951.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07, 1983	35.45	JAN 17, 1984	30.58	APR 16, 1984	33.86	JUL 19, 1984	44.37
NOV 15	32.10	FEB 17	30.28	MAY 17	40.10	AUG 16	45.91
DEC 22	31.33	MAR 14	30.38	JUN 14	42.43	SEP 13	47.03

SANTA BARBARA COUNTY--Continued

Santa Barbara Basin (3-17)

SITE NUMBER 342509119413703 LOCAL NUMBER 004N027H22B04S

IN VERA CRUZ PARK. DRILLED TEST WATER-TABLE WELL. DIAM 2 IN, DEPTH 660 FT, CASED TO 660 FT, PERFORATED 650-660 FT. ALTITUDE OF LSD 20 FT. MEASUREMENTS BEGINNING 6/16/76 FURNISHED BY CITY OF SANTA BARBARA. RECORDS AVAILABLE 1976 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.48 FEET BELOW LAND SURFACE DATUM APR 08, 1976.

LOWEST WATER LEVEL 113.04 FEET BELOW LAND SURFACE DATUM MAY 19, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1983	73.67	JAN 05, 1984	29.58 S	APR 10, 1984	5.54	JUL 09, 1984	77.04 S
NOV 03	23.08	FEB 06	4.42	MAY 03	49.13	AUG 07	95.46 S
DEC 06	17.58	MAR 01	4.58	JUN 05	81.33 S	SEP 12	96.83

Some measurements reflect nearby and general pumping in the basin.

Goleta Basin (3-16)

SITE NUMBER 342610119485301 LOCAL NUMBER 004N028H09Q06S

EAST OF GOLETA. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM OF SANTA BARBARA FORMATION OF PLEISTOCENE AGE. DIAM 8 IN, DEPTH 306 FT, PERFORATED 238-283 FT. ALTITUDE OF LSD 42 FT. RECORDS BEGINNING IN 1970 FURNISHED BY GOLETA WATER DISTRICT. RECORDS AVAILABLE 1955-56, 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 61.53 FEET BELOW LAND SURFACE DATUM JAN 04, 1972.

LOWEST WATER LEVEL 92.26 FEET BELOW LAND SURFACE DATUM OCT 01, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 01, 1983	75.14	APR 02, 1984	70.55	JUN 01, 1984	77.51	AUG 01, 1984	81.48
FEB 02, 1984	72.30						

Santa Ynez River Valley (3-15)

SITE NUMBER 343911120264001 LOCAL NUMBER 007N034W34B01S

IN LOMPOC. DRILLED PUBLIC SUPPLY WATER-TABLE WELL. DIAM 14 IN, DEPTH 195 FT, CASED TO 192 FT, PERFORATED 96-192 FT. ALTITUDE OF LSD 102 FT. RECORDS BEGINNING IN 1972 FURNISHED BY U.S. BUREAU OF RECLAMATION. RECORDS AVAILABLE 1965, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 40.70 FEET BELOW LAND SURFACE DATUM APR 23, 1975.

LOWEST WATER LEVEL 68.70 FEET BELOW LAND SURFACE DATUM JUL 27, 1974.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1983	43.7 H	JAN 25, 1984	43.7 H	MAR 29, 1984	41.7 H	JUN 28, 1984	47.7 H
NOV 17	42.7 H	FEB 28	41.7 H	APR 22	42.7 H		

SITE NUMBER 343840120304801 LOCAL NUMBER 007N035W36J03S

ABOUT 3 MI WEST OF LOMPOC. DRILLED UNUSED ARTESIAN WELL IN ALLUVIUM. DIAM 16 IN, DEPTH 102 FT, PERFORATED 71-95 FT. ALTITUDE OF LSD 58.76 FT. RECORDS 1930-42 FURNISHED BY CITY OF SANTA BARBARA. RECORDS AVAILABLE 1929-42, 1944, 1952, 1961 TO CURRENT YEAR.

HIGHEST WATER LEVEL 4.60 FEET BELOW LAND SURFACE DATUM APR 16, 1941.

LOWEST WATER LEVEL 81.00 FEET BELOW LAND SURFACE DATUM JUL 18, 1933.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1983	21.52	JAN 26, 1984	24.64	APR 26, 1984	24.36 S	JUL 23, 1984	26.98
NOV 28	23.85	FEB 23	23.53	MAY 22	24.80	AUG 22	28.23
DEC 19	19.62	MAR 26	21.27	JUN 22	25.25	SEP 25	26.75

S Nearby, pumping.

H Nearby, recently flowing.

GROUND WATER

SANTA BARBARA COUNTY--Continued

San Antonio Creek Valley (3-14)

SITE NUMBER 344457120174001 LOCAL NUMBER 008N032W30D01S

NORTH OF HWY 135 AND 0.33 MI WEST OF BELL STREET. DRILLED UNUSED WATER-TABLE WELL IN SAND AND GRAVEL. DIAM 16 IN, DEPTH 899 FT, PERFORATED 265-355, 278-409, 463-523, 667-895 FT. ALTITUDE OF LSD 540 FT. RECORDER INSTALLED 12/1977. RECORDS AVAILABLE 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 23.18 FEET BELOW LAND SURFACE DATUM APR 30, 1978.

LOWEST WATER LEVEL 67.14 FEET BELOW LAND SURFACE DATUM JUL 26, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1983	46.63	JAN 26, 1984	41.69	APR 25, 1984	46.14	JUL 26, 1984	67.14
NOV 28	43.91	FEB 24	43.50	MAY 25	48.33	AUG 28	62.52
DEC 21	42.86	MAR 28	42.65	JUN 26	61.02	SEP 27	55.36

SITE NUMBER 344443120164501 LOCAL NUMBER 008N032W30H07S

IN LOS ALAMOS. DRILLED PUBLIC SUPPLY ARTESIAN WELL IN PASO ROBLES FORMATION. DIAM 12 IN, DEPTH 310 FT, CASED TO 310 FT, PERFORATED 124-310 FT. ALTITUDE OF LSD 563 FT. RECORDS AVAILABLE 1964-76, 1978 TO CURRENT YEAR.

WATER QUALITY DATA

LOCAL IDENTIFIER	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CaCO3)	HARDNESS, NONCARBONATE (MG/L AS CaCO3)	CALCIUM SOLVED (MG/L AS Ca)	MAGNESIUM SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	PERCENT SODIUM
008N032W30H07S	84-06-21	700	6.7	18.0	220	120	50	23	54	35

SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY FIELD (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	NITROGEN, NO2+NO3, DIS-SOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGANESE, DIS-SOLVED (UG/L AS MN)
2	2.8	100	140	76	.20	57	460	1.3	.05	100	1400	170

Cuyama Valley (3-13)

SITE NUMBER 345500119343201 LOCAL NUMBER 010N025W29K02S

ABOUT 6.5 MI EAST OF NEW CUYAMA. IRRIGATION WATER-TABLE WELL. DIAM 14 IN, DEPTH 450 FT, CASED TO 296 FT, PERFORATED 120-296 FT. ALTITUDE OF LSD 2357 FT. RECORDS AVAILABLE 1966, 1968, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 121.20 FEET BELOW LAND SURFACE DATUM DEC 11, 1968.

LOWEST WATER LEVEL 334.77 FEET BELOW LAND SURFACE DATUM APR 17, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
MAY 11, 1984	332.24

SANTA BARBARA COUNTY -Continued

Santa Maria Valley (3-12)

SITE NUMBER 345548120242202 LOCAL NUMBER 010N034W24K01S

EAST OF HWY 101 AND SOUTH OF BATTLES ROAD. DRIVEN UNUSED ARTESIAN WELL IN ALLUVIUM OF QUATERNARY AGF. DIAM 16 IN, DEPTH 714 FT, PERFORATED 650-657, 692-710 FT. ALTITUDE OF LSD 254 FT. MEASUREMENTS FURNISHED BY SANTA MARIA VALLEY WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1941, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 75.32 FEET BELOW LAND SURFACE DATUM DEC 30, 1941.

LOWEST WATER LEVEL 215.50 FEET BELOW LAND SURFACE DATUM JUL 01, 1972.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15, 1983	134.30	JAN 15, 1984	130.80	APR 15, 1984	124.80	JUL 15, 1984	147.60

VENTURA COUNTY

Pleasant Valley (4-6)

SITE NUMBER 341351118503801 LOCAL NUMBER 002N020W28G02S

ABOUT 1 MI NORTHEAST OF INTERSECTION OF SANTA ROSA AND OAK CANYON ROADS. DRILLED UNUSED WATER-TABLE WELL. DIAM 10 IN, DEPTH 450 FT. ALTITUDE OF LSD 170 FT. MEASUREMENTS FURNISHED BY VENTURA COUNTY FLOOD CONTROL DISTRICT; MEASURED PERIODICALLY BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1956 TO CURRENT YEAR.

HIGHEST WATER LEVEL 65.6 FEET BELOW LAND SURFACE DATUM OCT 10, 1984.

LOWEST WATER LEVEL 160.90 FEET BELOW LAND SURFACE DATUM JUL 12, 1966.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 28, 1983	67.8	APR 02, 1984	66.9	JUN 06, 1984	66.5	AUG 08, 1984	66.1
FEB 07, 1984	67.3						

Los Posas Valley (4-8)

SITE NUMBER 341616119023701 LOCAL NUMBER 002N021W11J02S

NEAR LOS ANGELES AVENUE AND PRICE ROAD. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM. DIAM 12 IN, DEPTH 1150 FT, PERFORATED 375-416, 659-699, 832-873, 1017-1150 FT. ALTITUDE OF LSD 387 FT. MEASUREMENTS FURNISHED BY VENTURA COUNTY FLOOD CONTROL DISTRICT; MEASURED PERIODICALLY BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 323.9 FEET BELOW LAND SURFACE DATUM DEC 07, 1983.

LOWEST WATER LEVEL 364.62 FEET BELOW LAND SURFACE DATUM NOV 16, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12, 1983	324.5	FEB 14, 1984	334.4	JUN 11, 1984	327.1	SEP 24, 1984	332.2
DEC 07	323.9	APR 04	324.5	AUG 03	334.7		

Santa Clara River Valley (4-4)

SITE NUMBER 341557119074401 LOCAL NUMBER 002N022W12R01S

ABOUT 0.5 MI WEST OF INTERSECTION OF ROSE AVENUE AND LOS ANGELES AVENUE. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM. DIAM 20 IN, DEPTH 147 FT, PERFORATED 90-130 FT. ALTITUDE OF LSD 135.1 FT. MEASUREMENTS FURNISHED BY VENTURA COUNTY FLOOD CONTROL DISTRICT AND UNITED WATER CONSERVATION DISTRICT; MEASURED PERIODICALLY BY U.S. GEOLOGICAL SURVEY. RECORDS AVAILABLE 1956 TO CURRENT YEAR.

HIGHEST WATER LEVEL 20.54 FEET BELOW LAND SURFACE DATUM MAY 29, 1980.

LOWEST WATER LEVEL 128.9 FEET BELOW LAND SURFACE DATUM DEC 20, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1983	40.4	JAN 15, 1984	29.1	APR 15, 1984	34.6	JUL 14, 1984	39.0
NOV 15	38.8	FEB 16	27.5	MAY 16	41.2	AUG 15	38.5
DEC 17	30.5	MAR 17	29.5	JUN 17	40.5	SEP 16	44.4

GROUND WATER
VENTURA COUNTY--Continued
Upper Ojai Valley (4-1)

SITE NUMBER 342721119122001 LOCAL NUMBER 004N022H05L085

EAST OF OJAI. DRILLED IRRIGATION WATER-TABLE WELL IN SAND OF QUATERNARY AGE. DIAM 11 IN, DEPTH 525 FT, CASED 0-525 FT, PERFORATED 250-525 FT. ALTITUDE OF LSD 890.7 FT. RECORDS AVAILABLE 1977-78, 1982 TO CURRENT YEAR.

HIGHEST WATER LEVEL 30.20 FEET BELOW LAND SURFACE DATUM APR 18, 1978.

LOWEST WATER LEVEL 168.70 FEET BELOW LAND SURFACE DATUM DEC 08, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 30, 1983	85.4	APR 10, 1984	99.3	JUN 01, 1984	117.0	AUG 10, 1984	128.1
FEB 15, 1984	85.9						

Ventura River Valley (4-3)

SITE NUMBER 342550119174601 LOCAL NUMBER 004N023H16C045

ABOUT 1150 FT WEST OF RICE ROAD AND 250 FT NORTH OF EXTENSION OF BALDWIN ROAD. DRILLED PUBLIC SUPPLY WATER-TABLE WELL. DIAM 12 IN, DEPTH 227 FT. ALTITUDE OF LSD 5577.3 FT. MEASUREMENTS FURNISHED BY VENTURA COUNTY FLOOD CONTROL DISTRICT. RECORDS AVAILABLE 1956 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.9 FEET BELOW LAND SURFACE DATUM MAR 30, 1983.

LOWEST WATER LEVEL 76.4 FEET BELOW LAND SURFACE DATUM DEC 05, 1972.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 29, 1983	15.4	APR 09, 1984	26.6	MAY 30, 1984	33.9	AUG 07, 1984	43.4
FEB 14, 1984	18.7						

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October 1, 1978

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
<i>Length</i>		
inches (in)	2.54×10^1 2.54×10^{-2}	millimeters (mm) 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 4.047×10^{-1} 4.047×10^{-3}	square meters (m ²) square hectometers (hm ²) 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 3.785×10^0 3.785×10^{-3}	liters (L) cubic decimeters (dm ³) cubic meters (m ³)
million gallons	3.785×10^3 3.785×10^{-3}	cubic meters (m ³) cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1 2.832×10^{-2}	cubic decimeters (dm ³) cubic meters (m ³)
cfs-days	2.447×10^3 2.447×10^{-3}	cubic meters (m ³) cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3 1.233×10^{-3} 1.233×10^{-6}	cubic meters (m ³) cubic hectometers (hm ³) cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1 2.832×10^1 2.832×10^{-2}	liters per second (L/s) cubic decimeters per second (dm ³ /s) cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2} 6.309×10^{-2} 6.309×10^{-5}	liters per second (L/s) cubic decimeters per second (dm ³ /s) cubic meters per second (m ³ /s)
million gallons per day	4.381×10^1 4.381×10^{-2}	cubic decimeters per second (dm ³ /s) cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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